

3RP-311

Reports

Date: 2002

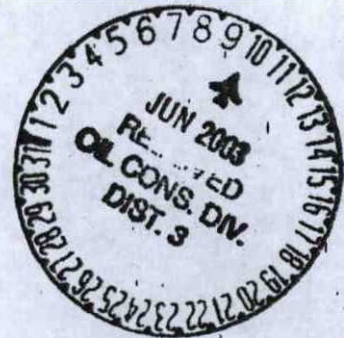


Environmental Services
188 County Road 4900
Bloomfield, New Mexico 87413
(505) 634-4956 (office)
(505) 632-4781 (fax)

June 6, 2003

District Copy
For Scanning Only
Has NOT been processed.

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



RE: 2002 GROUND WATER SUMMARY REPORT

Dear Mr. Olson:

Enclosed for your review is the 2002 Ground Water Summary Report. The report presents monitoring data for eleven sites having petroleum hydrocarbon impacted ground water, which resulted from the past use of unlined surface impoundments. The sites included in the report are listed in Table 1.

In 2002, seven sites achieved four or more consecutive quarters of water quality data meeting NMWQCC standards for BTEX. Williams submitted final closure reports for four of these sites and has received OCD closure approval on three of the sites. At your request, Williams has submitted a revised potentiometric surface map for the fourth site to allow completion of the OCD review. Final closure reports for the remaining three sites are currently being prepared and will be submitted soon. Table 2 lists the sites that have met the cleanup objectives in 2002.

Of the eleven active sites, seven have accumulations of LNAPL in one or more monitoring well. In 2002, passive collection devices were deployed in all wells containing measurable accumulations of LNAPL. Periodic emptying of the collection devices along with active bailing of LNAPL during the quarterly sampling events continues.

The remaining four active sites consist of three sites with concentrations of dissolved BTEX in excess of cleanup standards. At each of these sites, only the source area well exceeds the standards. The fourth site, Wilmerding 1M, has had dry wells since May 2001. The samples collected at that time contained no detectable BTEX. The hay field surrounding this site is being irrigated this season and it is anticipated that ground water levels will rise sufficiently to allow sample collection.

Thank you for your time to review this submittal. If you have any questions regarding the report, you may call me at (505) 634-4956.

Respectfully,

James P. Struhs 6/6/03
JAMES P. STRUHS
(FOR MARK B. HARVEY)

Mark B. Harvey
Project Manager

Attachments
Enclosure

c: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office

Table 1. List of Active Sites for 2002 Report

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification
1	Chamberlain 1	F	14	32N	12W	-108.068853	36.990549	30-Sep-99
2	Davis 1	E	11	31N	12W	-108.068919	36.916257	2-Mar-99
3	Dogie East Pit	D	4	25N	6W	-107.478874	36.434196	7-Jul-97
4	Florance 40	G	21	30N	8W	-107.67775	36.800088	27-Jan-97
5	Florance M 47X	G	5	30N	9W	-107.799823	36.843166	27-Jan-97
6	Honolulu Drip	B	15	26N	4W	-107.238469	36.492341	18-Jun-96
7	Ice Canyon Drip	J	13	26N	7W	-107.52226	36.484972	1-Dec-97
8	Jicarilla Contract 147-6	C	6	25N	5W	-107.402363	36.433963	13-Aug-98
9	Patterson A Com A1	G	2	31N	12W	-108.061165	36.930755	2-Mar-99
10	Pritchard 2	J	6	30N	8W	-107.712068	36.837817	22-Feb-99
11	Wilmerding 1M	C	10	31N	13W	-108.193158	36.91846	5-Jun-98

Table 2. List of Sites Closed in 2002

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification	Status
1	Blanco Wash Drip	J	31	27N	8W	-107.721574	36.530995	19-Feb-99	Approved
2	Dogie North Pit	D	4	25N	6W	-107.479158	36.435784	7-Jul-97	Report Pending
3	Florance 124	C	27	29N	9W	-107.76698	36.70209	12-Aug-96	Pending Approval
4	Grenier 4A	M	7	31N	11W	-108.036001	36.910167	18-Oct-99	Report Pending
5	Kaufman 1	H	33	31N	13W	-108.202128	36.860121	9-Mar-00	Approved
6	O' Shea 1M	F	3	31N	13W	-108.193596	36.932228	6-Jun-98	Report Pending
7	Zachry 18E	O	11	28N	10W	-107.860007	36.670885	6-Sep-96	Approved

Site Summary Report

Site Name: Davis 1

Reporting Period: 2002

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

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

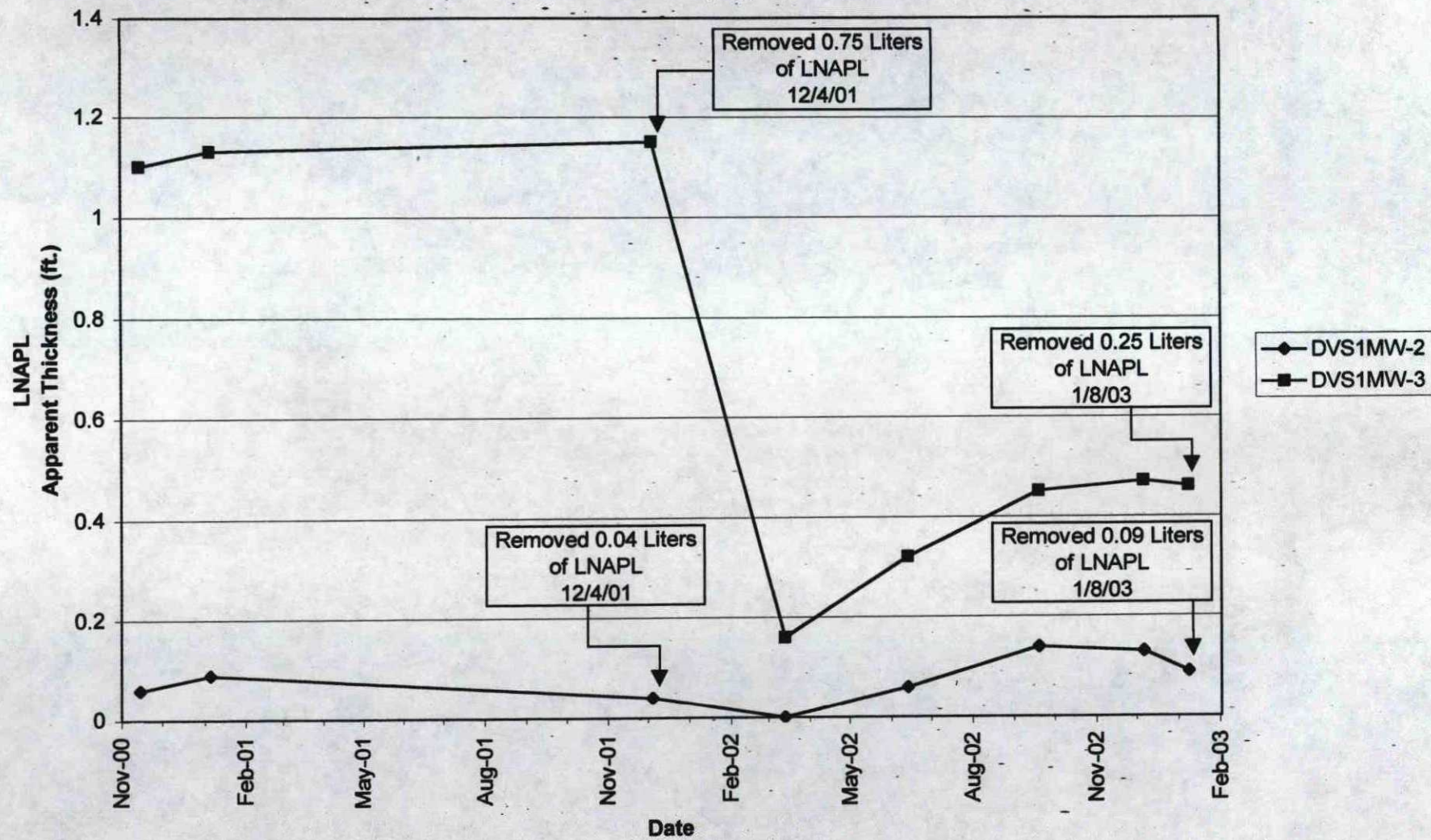
Status Narrative

This site has seven monitoring wells installed and twelve quarters of ground water monitoring completed to date. Monitoring wells MW-2 and MW-3 contain measurable accumulations of LNAPL. The enclosed chart illustrates the variations in LNAPL thickness within each well. To date, 1-liter of LNAPL has been recovered in well MW-3 and 0.13-liter in MW-2. Dissolved total BTEX levels in downgradient well MW-5 have continued to increase. In the first quarter, total BTEX was 4,650 ppb. This level increased to 33,680 ppb 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 any detectable BTEX. Laboratory analytical reports are enclosed along with a table summarizing the results.

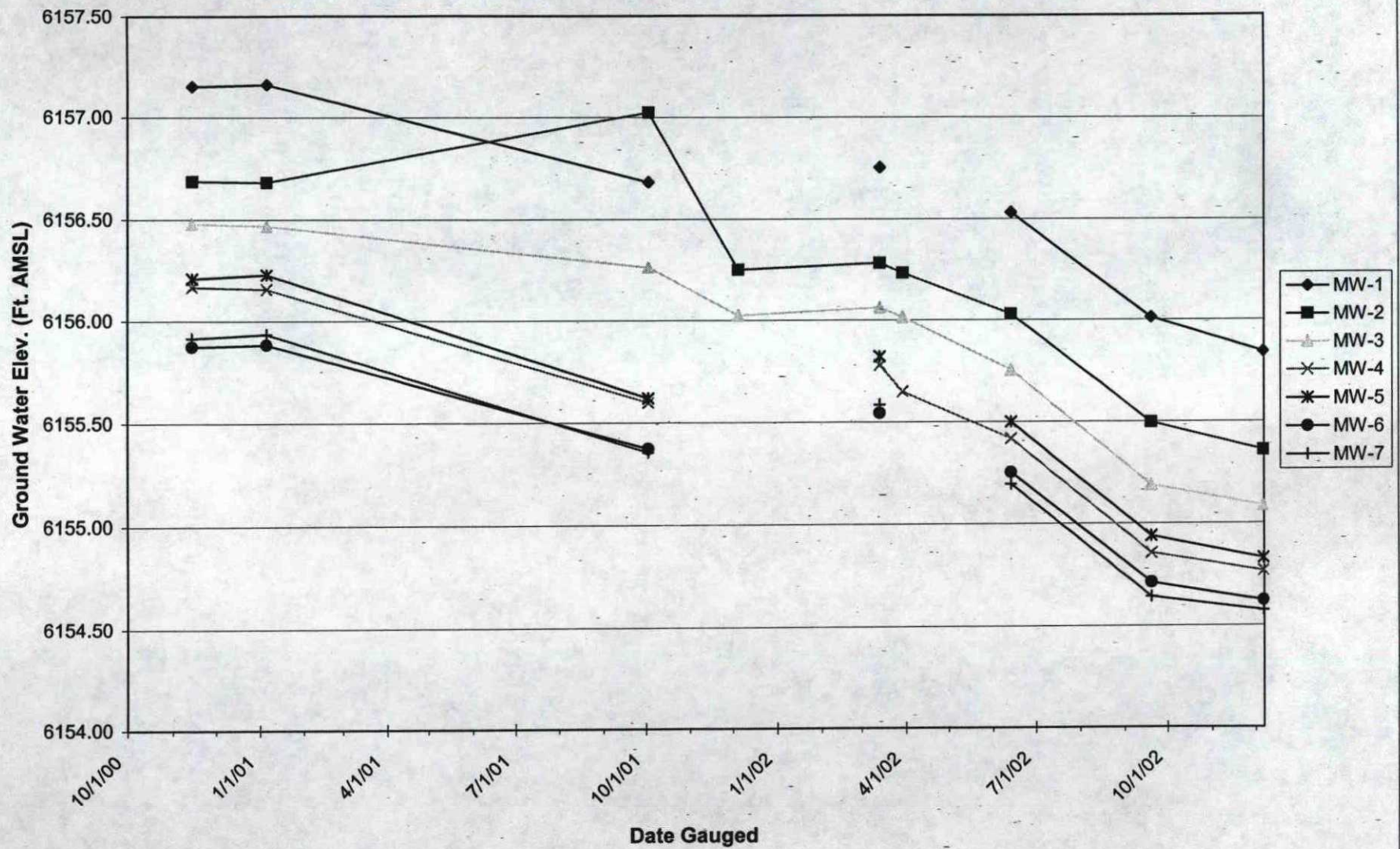
Ground water flows to the west-northwest with an average hydraulic gradient of 0.006. No significant seasonal variations in flow direction or gradient occur. Figure 2 shows the potentiometric surface for each of the quarterly sampling events. The hydrograph illustrates an overall decrease in water table elevation over the last two years. Some moderation in the rate of water table elevation decline is evident during the fourth quarters of 2001 and 2002.



Davis 1
LNAPL Thickness



Davis #1 Hydrograph



Analytical Data Summary

Site Name:

Davis 1

Reporting Period:

1/1/02 To 12/31/02

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1						
	6/13/02	141313JUN02	ND	ND	ND	ND
	9/19/02	134519SEP02	ND	ND	ND	ND
	12/6/02	110206DEC02	ND	3.3	ND	ND
MW-2						
	3/13/02	134213MAR02	12000	23000	870	7900
	12/6/02	111206DEC02	9300	19000	790	5400
MW-4						
	3/29/02	84829MAR02	ND	ND	ND	ND
	6/13/02	153913JUN02	ND	ND	ND	ND
	9/19/02	133219SEP02	ND	ND	ND	ND
	12/6/02	112106DEC02	ND	ND	ND	ND
MW-5						
	3/13/02	133413MAR02	3700	200	370	380
	6/13/02	160613JUN02	4400	130	470	150
	9/19/02	135719SEP02	6700	480	480	320
	12/6/02	113006DEC02	20000	7600	780	5300
MW-6						
	3/13/02	132113MAR02	ND	ND	ND	ND
	6/13/02	150213JUN02	ND	ND	ND	ND
	9/19/02	131119SEP02	ND	ND	ND	ND
	12/6/02	113906DEC02	ND	ND	ND	ND
MW-7						
	3/13/02	131213MAR02	ND	ND	ND	ND
	6/13/02	151913JUN02	ND	ND	ND	ND
	9/19/02	132119SEP02	ND	ND	ND	ND
	12/6/02	114806DEC02	ND	ND	ND	ND



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

March 27, 2002

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

RE: Lab Project Number: 6057267
Client Project ID: SJB-GW DVS 1

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2002. Results reported herein conform to the most current NELAP 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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MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

Lab Project Number: 6057267
Client Project ID: SJB-GW DVS 1

Attn: Mr. Jim Struhs
Phone: (505)632-4457

Lab Sample No: 604988048
Client Sample ID: 134213MAR02

Project Sample Number: 6057267-001
Matrix: Water

Date Collected: 03/13/02 13:42
Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg	Limit
GC Volatiles									
Aromatic Volatile Organics		Prep/Method: EPA 8021 / EPA 8021							
Benzene	12000	ug/l	400	03/26/02 15:51	SHF	71-43-2	1		
Ethylbenzene	870	ug/l	100	03/26/02 15:51	SHF	100-41-4			
Toluene	23000	ug/l	400	03/26/02 15:51	SHF	108-88-3	1		
Xylene (Total)	7900	ug/l	250	03/26/02 15:51	SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	103	%		03/26/02 15:51	SHF	2164-17-2	2		

Date: 03/27/02

Page: 1

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Lab Project Number: 6057267

Client Project ID: SJB-GW DVS 1

Lab Sample No: 604988055
Client Sample ID: 133413MAR02

Project Sample Number: 6057267-002
Matrix: Water

Date Collected: 03/13/02 13:34
Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	3700	ug/l	50.	03/26/02 09:03	SHF	71-43-2	3	
Ethylbenzene	370	ug/l	10.	03/26/02 09:03	SHF	100-41-4		
Toluene	200	ug/l	10.	03/26/02 09:03	SHF	108-88-3		
Xylene (Total)	380	ug/l	25.	03/26/02 09:03	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		03/26/02 09:03	SHF	2164-17-2	2	

Date: 03/27/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057267

Client Project ID: SJB-GW DVS 1

Lab Sample No: 604988071
Client Sample ID: 132113MAR02

Project Sample Number: 6057267-003
Matrix: Water

Date Collected: 03/13/02 13:21
Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	03/26/02 09:32	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/26/02 09:32	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/26/02 09:32	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/26/02 09:32	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		03/26/02 09:32	SHF	2164-17-2		

Date: 03/27/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057267
Client Project ID: SJB-GW DVS 1

Lab Sample No: 604988089 Project Sample Number: 6057267-004 Date Collected: 03/13/02 13:12
Client Sample ID: 131213MAR02 Matrix: Water Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	03/26/02 10:01	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/26/02 10:01	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/26/02 10:01	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/26/02 10:01	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		03/26/02 10:01	SHF	2164-17-2		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057267

Client Project ID: SJB-GW DVS 1

Lab Sample No: 604988097

Client Sample ID: TRIPBLANK

Project Sample Number: 6057267-005

Matrix: Water

Date Collected: 03/13/02 00:00

Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	03/26/02 10:31	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/26/02 10:31	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/26/02 10:31	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/26/02 10:31	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		03/26/02 10:31	SHF	2164-17-2		

Date: 03/27/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057267

Client Project ID: SJB-GW DVS 1

PARAMETER FOOTNOTES

- 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
(S) Surrogate
[1] Result from a 1:200 dilution on 3-26-02.
[2] Elevated quantitation limits resulting from a dilution.
[3] Result from a 1:25 dilution on 3-26-02.

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: 6057267
Client Project ID: SJB-GW DVS 1

QC Batch: 119682 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 604988048 604988055 604988071 604988089 604988097

METHOD BLANK: 604997049
Associated Lab Samples: 604988048 604988055 604988071 604988089 604988097

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)	%	104		

LABORATORY CONTROL SAMPLE: 604997056

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Benzene	ug/l	20	22.56	113	
Ethylbenzene	ug/l	20	22.20	111	
Toluene	ug/l	20	22.39	112	
Xylene (Total)	ug/l	60	70.10	117	
a,a,a-Trifluorotoluene (S)				103	1

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057267
Client Project ID: SJB-GW DVS 1

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
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

April 10, 2002

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

RE: Lab Project Number: 6057625
Client Project ID: SJB-GW

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on April 2, 2002. 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: 6057625
Client Project ID: SJB-GW

<u>Project</u>	<u>Sample</u>				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6057625-001	605018845	84829MAR02	Water	03/29/02 08:48	04/02/02 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

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

Lab Project Number: 6057625
Client Project ID: SJB-GW

Project			Analysis		Analytes
Sample Number	Sample No	Client Sample ID	Code	Analysis Description	Reported
6057625-001	605018845	84829MAR02	8020 WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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

Lab Project Number: 6057625
Client Project ID: SJB-GW

Attn: Mr. Jim Struhs
Phone: (505)632-4457

Lab Sample No: 605018845
Client Sample ID: 84829MAR02

Project Sample Number: 6057625-001
Matrix: Water

Date Collected: 03/29/02 08:48
Date Received: 04/02/02 09:00

Parameters	Results	Units	Report Limit	Analyzed by	CAS No.	Ftnote	Reg Limit
GC Volatiles							
Aromatic Volatile Organics		Prep/Method: EPA 8021 / EPA 8021					
Benzene	ND	ug/l	2.0	04/04/02 15:03	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/04/02 15:03	100-41-4		
Toluene	ND	ug/l	2.0	04/04/02 15:03	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/04/02 15:03	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		04/04/02 15:03	2164-17-2		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057625

Client Project ID: SJB-GW

PARAMETER FOOTNOTES

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

(S) Surrogate

Date: 04/10/02

Page: 2

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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: 6057625

Client Project ID: SJB-GW

QC Batch: 120300
QC Batch Method: EPA 8021
Associated Lab Samples: 605018845

Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics

METHOD BLANK: 605022995
Associated Lab Samples: 605018845

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: 605023027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20	20.14	101	84-122	
Ethylbenzene	ug/l	20	19.50	98	85-117	
Toluene	ug/l	20	20.31	102	87-117	
Xylene (Total)	ug/l	60	62.20	104	85-119	
a,a,a-Trifluorotoluene (S)				100	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605023134 605023142

Parameter	Units	605018654 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	19.42	19.96	97	100	82-123	3	10	
Ethylbenzene	ug/l	0.8044	20.00	19.21	19.46	92	93	84-118	1	10	
Toluene	ug/l	0.1659	20.00	19.83	20.20	98	100	82-117	2	10	
Xylene (Total)	ug/l	0.7264	60.00	60.46	61.97	100	102	84-121	2	13	
a,a,a-Trifluorotoluene (S)						99	99	83-115			

Date: 04/10/02

Page: 3

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057625
Client Project ID: SJB-GW

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

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 24, 2002

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

RE: Lab Project Number: 6059946
Client Project ID: DVS1

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2002. Results reported herein conform to the most current NELAP 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: 6059946

Client Project ID: DVS1

Project	Sample				
Sample Number	Number	Client Sample ID	Matrix	Date Collected	Date Received
6059946-001	605212448	141313JUNE02	Water	06/13/02 14:13	06/20/02 09:00
6059946-002	605212455	153913JUNE02	Water	06/13/02 15:39	06/20/02 09:00
6059946-003	605212463	160613JUNE02	Water	06/13/02 16:06	06/20/02 09:00
6059946-004	605212471	150213JUNE02	Water	06/13/02 15:02	06/20/02 09:00
6059946-005	605212489	151913JUNE02	Water	06/13/02 15:19	06/20/02 09:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059946
Client Project ID: DVS1

Lab Sample No: 605212448
Client Sample ID: 141313JUNE02

Project Sample Number: 6059946-001
Matrix: Water

Date Collected: 06/13/02 14:13
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 12:27		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 12:27		100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 12:27		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 12:27		1330-20-7		
a,a,a-Trifluorotoluene (S)	106	%		06/21/02 12:27		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059946
Client Project ID: DVS1

Lab Sample No: 605212455
Client Sample ID: 153913JUNE02

Project Sample Number: 6059946-002
Matrix: Water

Date Collected: 06/13/02 15:39
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 12:59		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 12:59		100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 12:59		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 12:59		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		06/21/02 12:59		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059946
Client Project ID: DVS1

Lab Sample No: 605212463
Client Sample ID: 160613JUNE02

Project Sample Number: 6059946-003
Matrix: Water

Date Collected: 06/13/02 16:06
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	4400	ug/l	100	06/21/02 13:29		71-43-2	1	
Ethylbenzene	470	ug/l	20.	06/21/02 13:29		100-41-4		
Toluene	130	ug/l	20.	06/21/02 13:29		108-88-3		
Xylene (Total)	150	ug/l	50.	06/21/02 13:29		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		06/21/02 13:29		98-08-8	2	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059946

Client Project ID: DVS1

Lab Sample No: 605212471
Client Sample ID: 150213JUNE02

Project Sample Number: 6059946-004

Matrix: Water

Date Collected: 06/13/02 15:02

Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 13:58		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 13:58		100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 13:58		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 13:58		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		06/21/02 13:58		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059946

Client Project ID: DVS1

Lab Sample No: 605212489

Project Sample Number: 6059946-005

Date Collected: 06/13/02 15:19

Client Sample ID: 151913JUNE02

Matrix: Water

Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 14:28		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 14:28		100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 14:28		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 14:28		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		06/21/02 14:28		98-08-8		

REPORT OF LABORATORY ANALYSIS

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PARAMETER FOOTNOTES

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] Result of a 1:50 dilution on 06/21/02.
[2] Elevated quantitation limits resulting from a dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 6059946
Client Project ID: DVS1

QC Batch: 124756 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605212448 605212455 605212463 605212471 605212489

METHOD BLANK: 605213867
Associated Lab Samples: 605212448 605212455 605212463 605212471 605212489

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: 605213875

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	20.84	104	84-122	
Ethylbenzene	ug/l	20.00	19.43	97	85-117	
Toluene	ug/l	20.00	20.90	104	87-117	
Xylene (Total)	ug/l	60.00	61.51	103	85-119	
a,a,a-Trifluorotoluene (S)				105	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605214295 605214303

Parameter	Units	605212448	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/l	0	20.00	20.87	20.86	104	104	82-123	0	10
Ethylbenzene	ug/l	0.6632	20.00	19.57	19.59	94	95	84-118	0	10
Toluene	ug/l	0.1954	20.00	20.97	20.92	104	104	82-117	0	10
Xylene (Total)	ug/l	0.3424	60.00	61.58	61.48	102	102	84-121	0	13
a,a,a-Trifluorotoluene (S)						104	106	83-115		

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 07, 2002

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

RE: Lab Project Number: 6063154
Client Project ID: DVS1

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2002. Results reported herein conform to the most current NELAP 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: 6063154

Client Project ID: 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>
6063154-001	605467901	131119SEP02	Water	09/19/02 13:11	09/26/02 09:15
6063154-002	605467919	132119SEP02	Water	09/19/02 13:21	09/26/02 09:15
6063154-003	605467927	133219SEP02	Water	09/19/02 13:32	09/26/02 09:15
6063154-004	605467935	134519SEP02	Water	09/19/02 13:45	09/26/02 09:15
6063154-005	605467943	135719SEP02	Water	09/19/02 13:57	09/26/02 09:15

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063154

Client Project ID: DVS1

Project			Analysis			Analytes
Sample Number	Sample No	Client Sample ID	Code		Analysis Description	Reported
6063154-001	605467901	131119SEP02	8020	WPAC	Aromatic Volatile Organics	5
6063154-002	605467919	132119SEP02	8020	WPAC	Aromatic Volatile Organics	5
6063154-003	605467927	133219SEP02	8020	WPAC	Aromatic Volatile Organics	5
6063154-004	605467935	134519SEP02	8020	WPAC	Aromatic Volatile Organics	5
6063154-005	605467943	135719SEP02	8020	WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063154

Client Project ID: DVS1

Lab Sample No: 605467901
Client Sample ID: 131119SEP02

Project Sample Number: 6063154-001
Matrix: Water

Date Collected: 09/19/02 13:11
Date Received: 09/26/02 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	10/02/02 20:41		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/02 20:41		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/02 20:41		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/02 20:41		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	10/02/02 20:41		98-08-8		

Date: 10/07/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063154
Client Project ID: DVS1

Lab Sample No: 605467919
Client Sample ID: 132119SEP02

Project Sample Number: 6063154-002
Matrix: Water

Date Collected: 09/19/02 13:21
Date Received: 09/26/02 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	10/02/02 21:10		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/02 21:10		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/02 21:10		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/02 21:10		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	10/02/02 21:10		98-08-8		

Date: 10/07/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063154
Client Project ID: DVS1

Lab Sample No: 605467927
Client Sample ID: 133219SEP02

Project Sample Number: 6063154-003
Matrix: Water

Date Collected: 09/19/02 13:32
Date Received: 09/26/02 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	10/02/02 21:38		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/02 21:38		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/02 21:38		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/02 21:38		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	10/02/02 21:38		98-08-8		

Date: 10/07/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063154
Client Project ID: DVS1

Lab Sample No: 605467935
Client Sample ID: 134519SEP02

Project Sample Number: 6063154-004
Matrix: Water

Date Collected: 09/19/02 13:45
Date Received: 09/26/02 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	10/02/02 22:07		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/02 22:07		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/02 22:07		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/02 22:07		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	10/02/02 22:07		98-08-8		

Date: 10/07/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063154
Client Project ID: DVS1

Lab Sample No: 605467943
Client Sample ID: 135719SEP02

Project Sample Number: 6063154-005
Matrix: Water

Date Collected: 09/19/02 13:57
Date Received: 09/26/02 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	6700	ug/l	200	100	10/03/02		71-43-2		
Ethylbenzene	480	ug/l	20.	10.0	10/02/02 22:35		100-41-4		
Toluene	480	ug/l	20.	10.0	10/02/02 22:35		108-88-3		
Xylene (Total)	320	ug/l	50.	10.0	10/02/02 22:35		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	10/02/02 22:35		98-08-8	1	

Date: 10/07/02

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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]	Elevated quantitation limits resulting from a dilution.

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: 6063154
Client Project ID: DVS1

QC Batch: 130915 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605467901 605467919 605467927 605467935 605467943

METHOD BLANK: 605482827
Associated Lab Samples: 605467901 605467919 605467927 605467935 605467943

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)	%	102		

LABORATORY CONTROL SAMPLE: 605482835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	21.50	107	84-122	
Ethylbenzene	ug/l	20.00	19.16	96	85-117	
Toluene	ug/l	20.00	20.08	100	87-117	
Xylene (Total)	ug/l	60.00	58.89	98	85-119	
a,a,a-Trifluorotoluene (S)				102	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605486067 605486075

Parameter	Units	605453604 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	19.80	20.13	99	101	82-123	2	10	
Ethylbenzene	ug/l	0	20.00	19.30	19.48	96	97	84-118	1	10	
Toluene	ug/l	0	20.00	19.52	19.97	98	100	82-117	2	10	
Xylene (Total)	ug/l	0	60.00	58.12	58.79	97	98	84-121	1	13	
a,a,a-Trifluorotoluene (S)						101	102	83-115			

Date: 10/07/02

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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 20, 2002

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

RE: Lab Project Number: 6065825
Client Project ID: SJB-GW DVS1

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2002. Results reported herein conform to the most current NELAP 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: 6065825

Client Project ID: SJB-GW 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>
6065825-001	605681006	114806DEC02	Water	12/06/02 11:48	12/17/02 08:00
6065825-002	605681014	113906DEC02	Water	12/06/02 11:39	12/17/02 08:00
6065825-003	605681022	112106DEC02	Water	12/06/02 11:21	12/17/02 08:00
6065825-004	605681030	111206DEC02	Water	12/06/02 11:12	12/17/02 08:00
6065825-005	605681048	110206DEC02	Water	12/06/02 11:02	12/17/02 08:00
6065825-006	605681055	113006DEC02	Water	12/06/02 11:30	12/17/02 08:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065825

Client Project ID: SJB-GW DVS1

Lab Sample No: 605681006

Client Sample ID: 114806DEC02

Project Sample Number: 6065825-001

Matrix: Water

Date Collected: 12/06/02 11:48

Date Received: 12/17/02 08:00

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	12/19/02 00:20 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/02 00:20 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	12/19/02 00:20 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/02 00:20 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	93	%		1.0	12/19/02 00:20 SHF	98-08-8			

Date: 12/20/02

Page: 1 of 9

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065825

Client Project ID: SJB-GW DVS1

Lab Sample No: 605681014
Client Sample ID: 1139060EC02

Project Sample Number: 6065825-002

Matrix: Water

Date Collected: 12/06/02 11:39

Date Received: 12/17/02 08:00

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	12/19/02 00:49 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/02 00:49 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	12/19/02 00:49 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/02 00:49 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	94	%		1.0	12/19/02 00:49 SHF	98-08-8			

Date: 12/20/02

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REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605681022

Client Sample ID: 112106DEC02

Project Sample Number: 6065825-003

Matrix: Water

Date Collected: 12/06/02 11:21

Date Received: 12/17/02 08:00

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	12/19/02 01:17 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/02 01:17 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/19/02 01:17 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/02 01:17 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	94	%		1.0	12/19/02 01:17 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065825
Client Project ID: SJB-GW DVS1

Lab Sample No: 605681030
Client Sample ID: 111206DEC02

Project Sample Number: 6065825-004
Matrix: Water
Date Collected: 12/06/02 11:12
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	9300	ug/l	200	100	12/19/02 15:06 SHF		71-43-2		
Ethylbenzene	790	ug/l	20.	10.0	12/19/02 01:46 SHF		100-41-4		
Toluene	19000	ug/l	200	100	12/19/02 15:06 SHF		108-88-3		
Xylene (Total)	5400	ug/l	50.	10.0	12/19/02 01:46 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	94	%		1.0	12/19/02 01:46 SHF		98-08-8		

Date: 12/20/02

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Lab Sample No: 605681048

Project Sample Number: 6065825-005

Date Collected: 12/06/02 11:02

Client Sample ID: 110206DEC02

Matrix: Water

Date Received: 12/17/02 08:00

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	12/19/02 15:35 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/02 15:35 SHF		100-41-4		
Toluene	3.3	ug/l	2.0	1.0	12/19/02 15:35 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/02 15:35 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	12/19/02 15:35 SHF		98-08-8		

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Lab Project Number: 6065825
Client Project ID: SJB-GW DVS1

Lab Sample No: 605681055
Client Sample ID: 113006DEC02

Project Sample Number: 6065825-006
Matrix: Water

Date Collected: 12/06/02 11:30
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	20000	ug/l	400	200	12/19/02 12:15 SHF		71-43-2		
Ethylbenzene	780	ug/l	40	20.0	12/19/02 02:42 SHF		100-41-4		
Toluene	7600	ug/l	400	200	12/19/02 12:15 SHF		108-88-3		
Xylene (Total)	5300	ug/l	100	20.0	12/19/02 02:42 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	89	%		1.0	12/19/02 02:42 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

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QUALITY CONTROL DATA

Lab Project Number: 6065825
Client Project ID: SJB-GW DVS1

QC Batch: 135852
QC Batch Method: EPA 8021
Associated Lab Samples: 605681006 605681014 605681022 605681030 605681048 605681055

Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics

METHOD BLANK: 605685213
Associated Lab Samples: 605681006 605681014 605681022 605681030 605681048 605681055

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)	%	93		

LABORATORY CONTROL SAMPLE: 605685221

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	19.35	97	84-122	
Ethylbenzene	ug/l	20.00	20.86	104	85-117	
Toluene	ug/l	20.00	19.99	100	87-117	
Xylene (Total)	ug/l	60.00	67.17	112	85-119	
a,a,a-Trifluorotoluene (S)				90	83-115	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 number of sample containers, there is no MS/MSD. Acceptable recovery of the LCS demonstrates the analytical system was in control.

REPORT OF LABORATORY ANALYSIS

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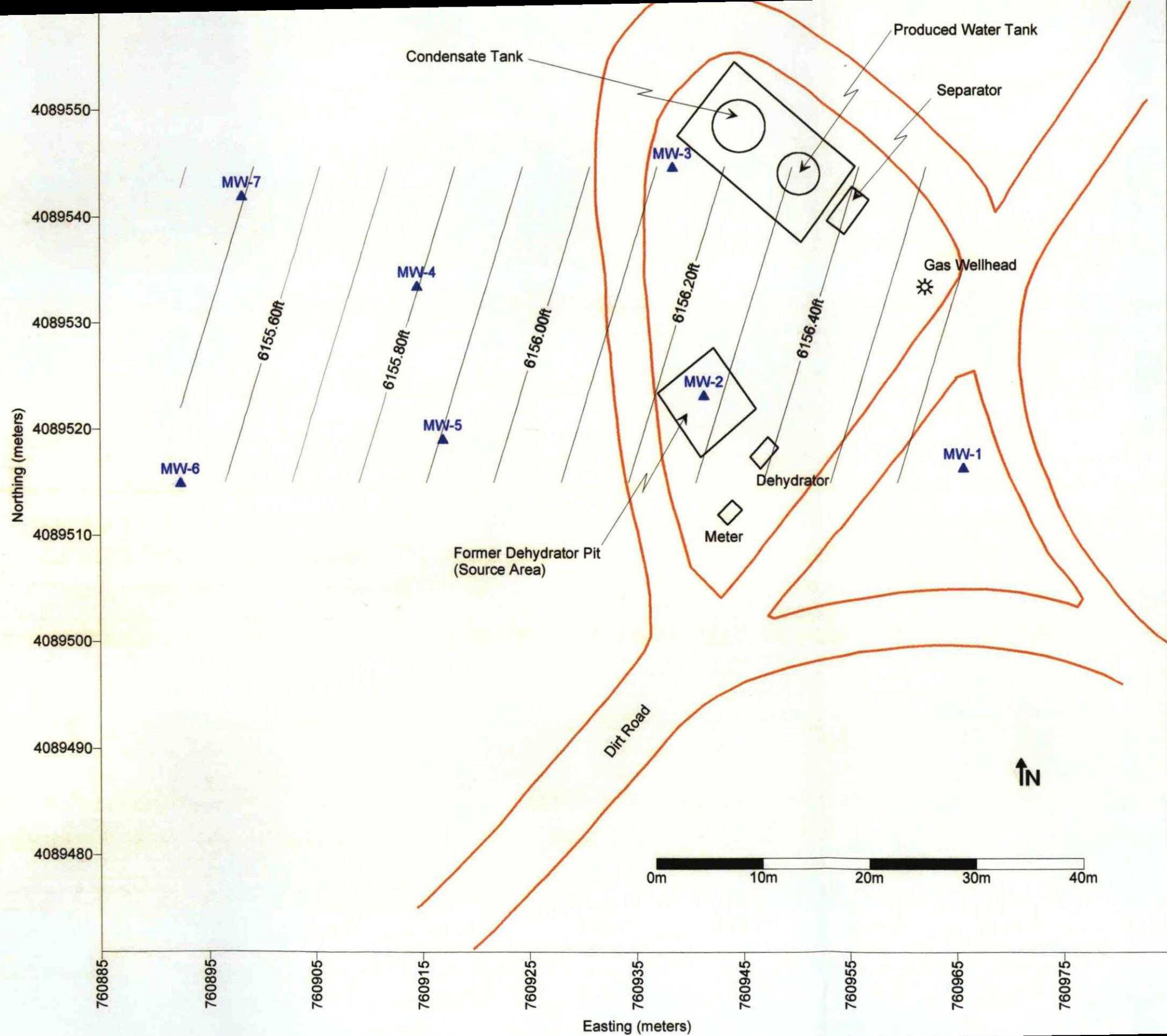


Figure 2
Potentiometric
Surface Map
Davis #1
(March 13, 2002)

LEGEND

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

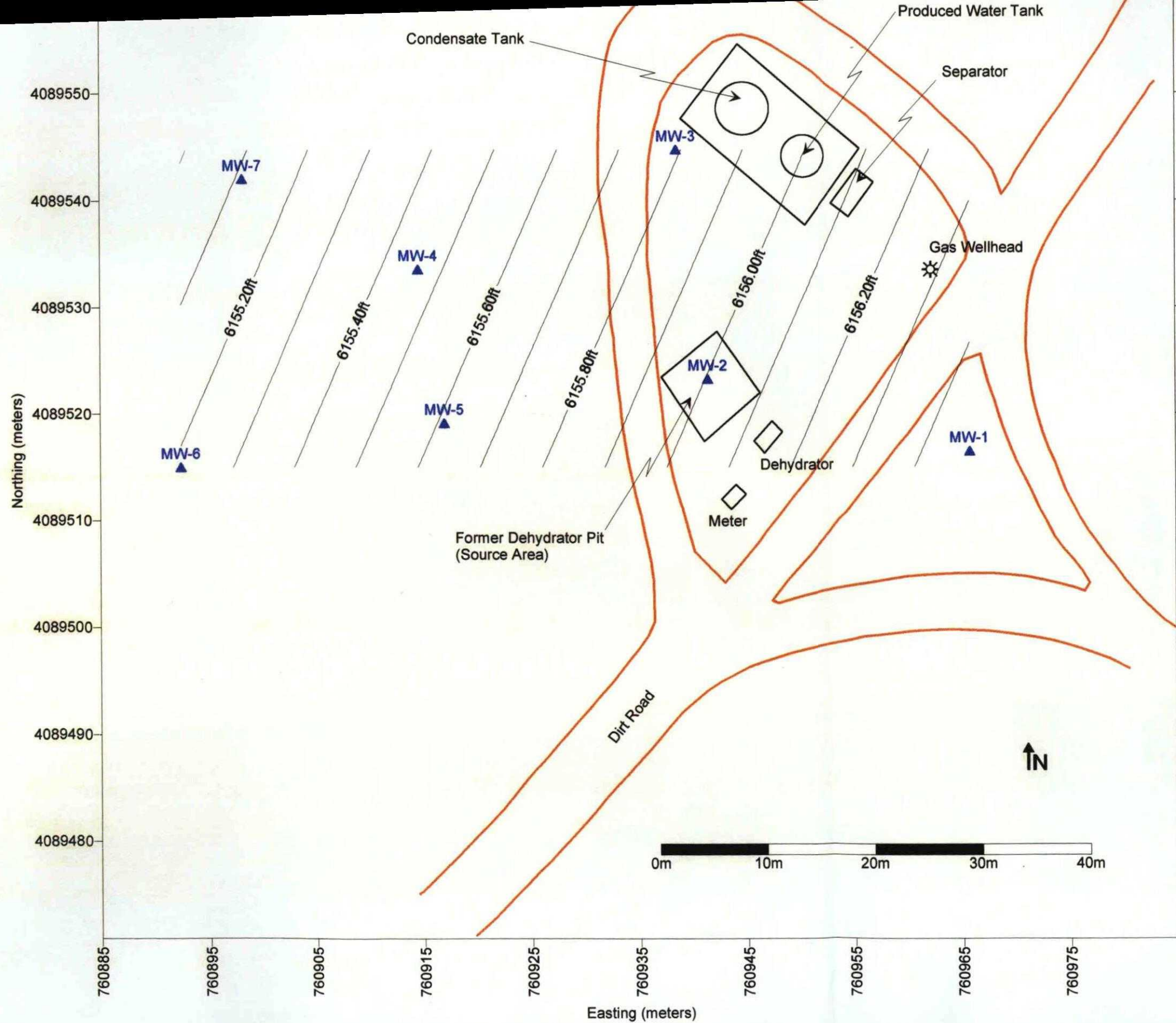


Figure 2
Potentiometric
Surface Map
Davis #1
(June 13, 2002)

LEGEND

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

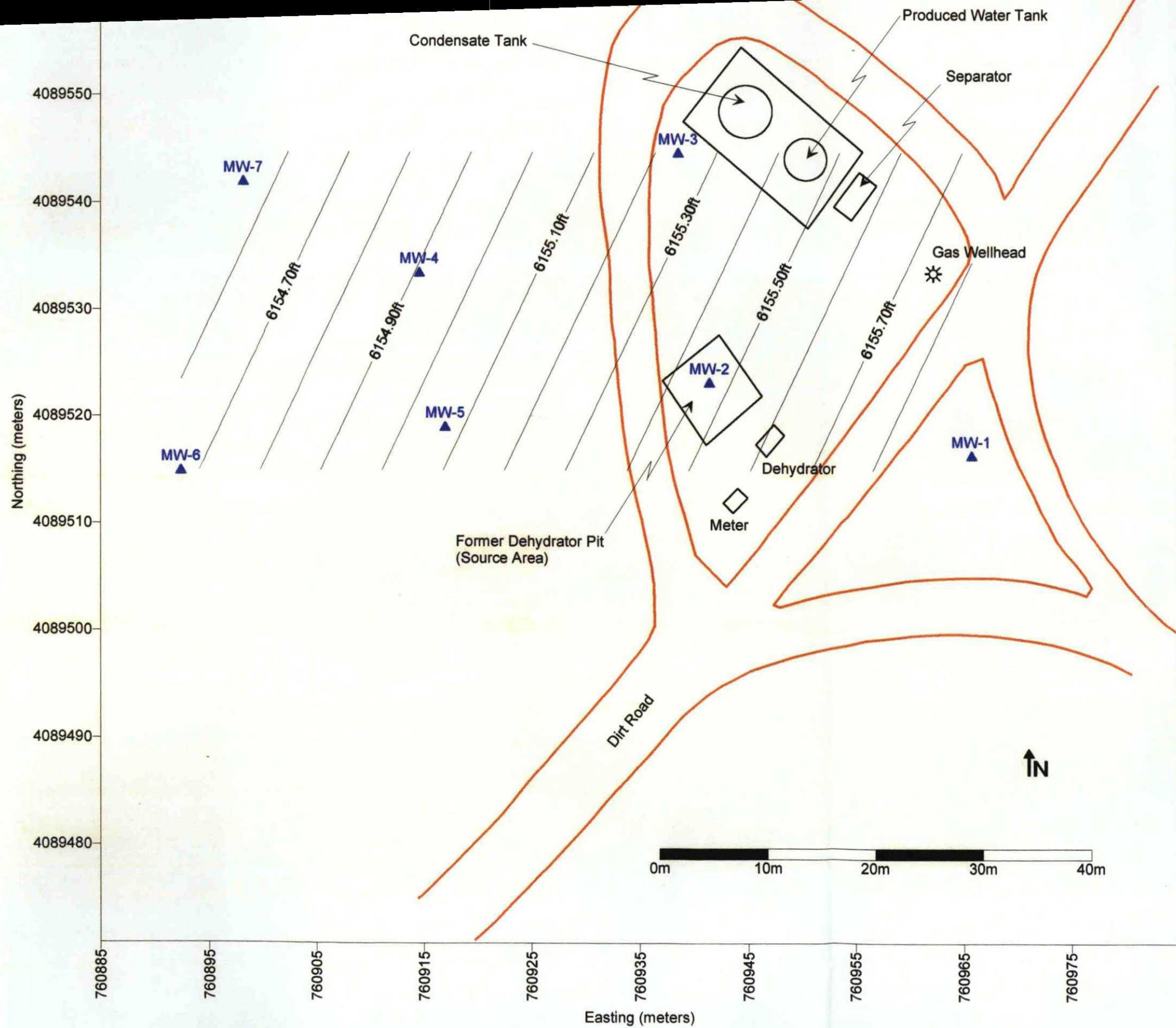


Figure 2
Potentiometric
Surface Map
Davis #1
(September 19, 2002)

LEGEND

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

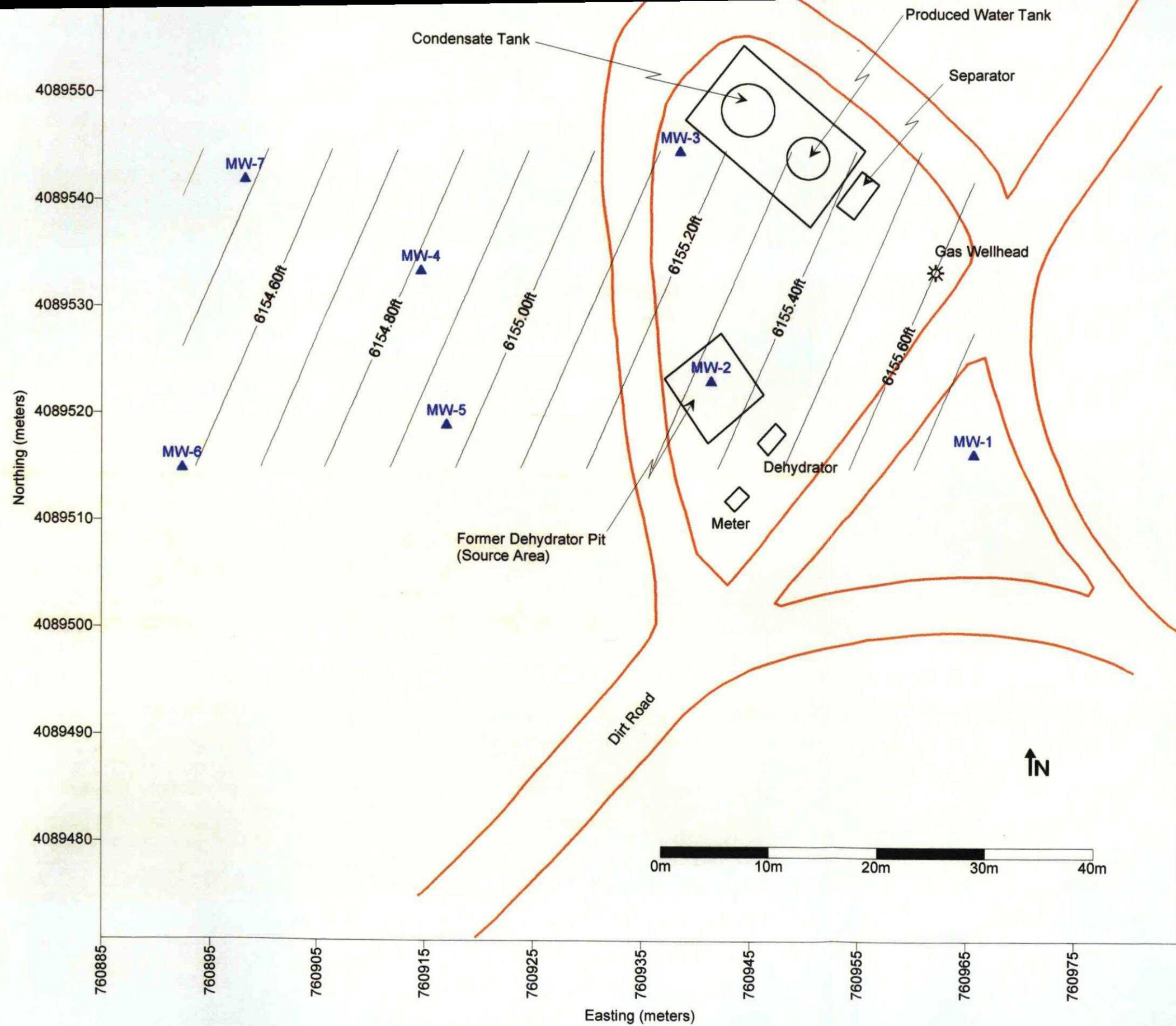



Figure 2
Potentiometric
Surface Map
Davis #1
(December 6, 2002)

LEGEND

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