

3RP-312

Reports

Date: 2002

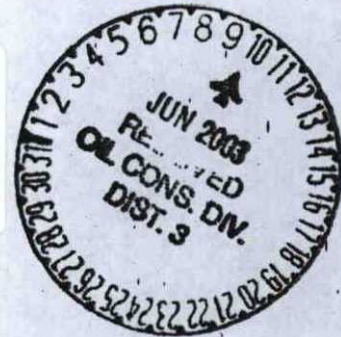


Environmental Services
188 County Road 4900
Bloomfield, New Mexico 87413
(505) 634-4956 (office)
(505) 632-4781 (fax)

June 6, 2003

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

District Copy
For Scanning Only
Has NOT been processed.



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: Dogie East Pit

Reporting Period: 2002

Location: Unit D, Sec 4, Twn 25N, Rng 6W
Canyon: Largo
Operator: Williams

Vulnerable Class: original
OCD Ranking: 40
Lead Agency: NMOCD

Status Narrative

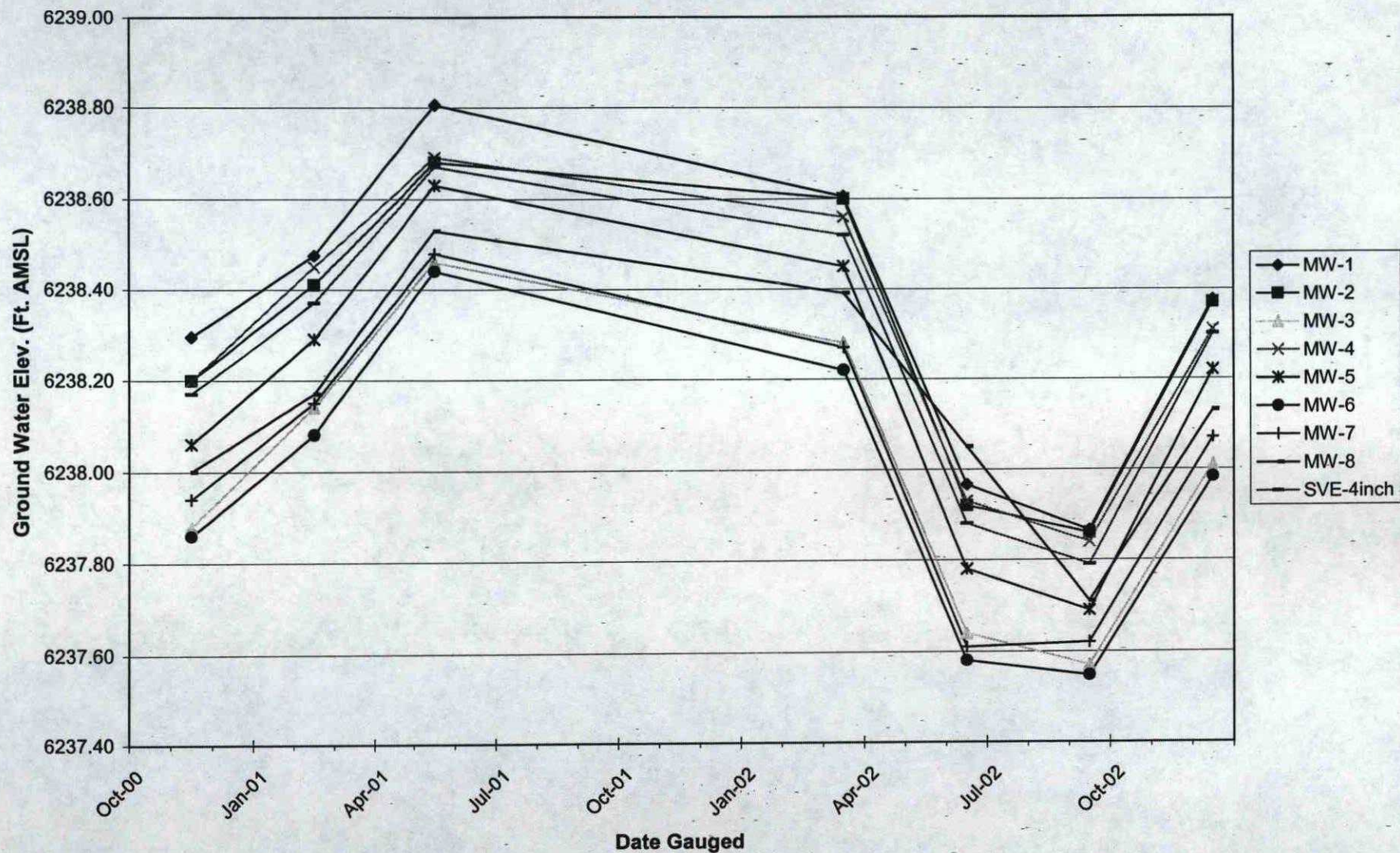
This site has nine monitoring wells installed in the original project area located at the northeast corner of the compressor station. To date, seventeen quarters of ground water monitoring have been completed. Source area well MW-2 has demonstrated two consecutive quarters of BTEX concentrations below NMWQCC standards. In addition, the 4-inch SVE pilot well, which had not previously been sampled, had no detectable BTEX in the third and fourth quarters. Monitoring wells MW-3, MW-4, and MW-5 continue to contain elevated levels of dissolved BTEX. Residual soil contamination identified by PNM in the vicinity of the Giant (Ciniza) pipeline that cuts through the triangular area formed by these three wells is the likely source. Well MW-7, located downgradient of well MW-5 had BTEX levels below standards for the last three quarters. Cross-gradient well MW-8 contained no detectable concentrations of BTEX.

Dissolved BTEX concentrations in downgradient well MW-6 increased from 112.1 ppb in the first quarter to 2520 ppb in the second quarter. In the third quarter, 1.25-feet of LNAPL was measured in this well. Approximately one-half liter of LNAPL was removed from MW-6 in the fourth quarter. Well MW-9, which is located 190 meters downgradient of MW-6, is the only monitoring point currently available to demonstrate that the contaminant plume has not migrated off site. As such, a sample from this well was collected for the first time in May 2003 (results pending). Installation of additional monitoring points to further delineate the extent of ground water contamination is planned for this year. A summary of the analytical results and copies of the laboratory analytical reports are included.

Ground water flowed to the west-northwest in the first quarter of the year and then veered to the west in the second quarter. Flow returned to a west-northwest direction in the third and fourth quarters. The average hydraulic gradient remained at 0.002 throughout the year. Figure 2 shows the potentiometric surface for each of the quarterly sampling events. The hydrograph shows a seasonal variation in water-table elevations.



Dogie East Pit Hydrograph



Analytical Data Summary

Site Name:

Dogie East Pit

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-2						
	3/26/02	114226MAR02	32.	ND	4.2	ND
	6/17/02	143117JUN02	5.6	ND	ND	ND
	9/28/02	160028SEP02	ND	ND	ND	ND
	12/20/02	112420DEC02	ND	ND	ND	ND
MW-3						
	3/26/02	120926MAR02	330	350	240	1100
	6/17/02	150217JUN02	220	600	460	2000
	9/28/02	163528SEP02	69.	180	110	540
	12/20/02	114920DEC02	250	790	210	1400
MW-4						
	3/26/02	115326MAR02	23.	8.3	ND	35.
	6/17/02	143917JUN02	1000	70.	10.	190
	9/28/02	162328SEP02	25.	41.	ND	81.
	12/20/02	113020DEC02	19.	13.	ND	27.
MW-5						
	3/26/02	122326MAR02	21.	24.	20.	97.
	6/17/02	142117JUN02	10.	27.	85.	250
	9/28/02	155128SEP02	13.	28.	43.	160
	12/20/02	113420DEC02	6.3	45.	46.	180
MW-6						
	3/26/02	120526MAR02	65.	11.	6.1	30.
	6/17/02	145517JUN02	1700	ND	180	640
MW-7						
	3/26/02	122526MAR02	6.5	ND	ND	ND
	6/17/02	151817JUN02	3.2	ND	ND	ND
	9/28/02	161228SEP02	ND	ND	ND	ND
	12/20/02	114320DEC02	2.1	ND	ND	ND
MW-8						
	3/26/02	121426MAR02	ND	ND	ND	ND
	6/17/02	141317JUN02	ND	ND	ND	ND
	9/28/02	152428SEP02	ND	ND	ND	ND
	12/20/02	113820DEC02	ND	ND	ND	ND
SVE-4inch						
	9/28/02	170528SEP02	ND	ND	ND	ND
	12/20/02	115520DEC02	ND	ND	ND	ND



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

April 04, 2002

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

RE: Lab Project Number: 6057623
Client Project ID: SJB-GW/ DOG-E

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: 6057623

Client Project ID: SJB-GW/ D06-E

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>
6057623-001	605018779	121426MAR02	Water	03/26/02 12:14	04/02/02 09:00
6057623-002	605018787	122326MAR02	Water	03/26/02 12:23	04/02/02 09:00
6057623-003	605018795	120526MAR02	Water	03/26/02 12:05	04/02/02 09:00
6057623-004	605018803	122526MAR02	Water	03/26/02 12:25	04/02/02 09:00
6057623-005	605018811	120926MAR02	Water	03/26/02 12:09	04/02/02 09:00
6057623-006	605018829	115326MAR02	Water	03/26/02 11:53	04/02/02 09:00
6057623-007	605018837	114226MAR02	Water	03/26/02 11:42	04/02/02 09:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623
Client Project ID: SJB-GW/ D06-E

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6057623-001	605018779	121426MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057623-002	605018787	122326MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057623-003	605018795	120526MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057623-004	605018803	122526MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057623-005	605018811	120926MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057623-006	605018829	115326MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057623-007	605018837	114226MAR02	8020	WPAC	Aromatic Volatile Organics	5

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Pace Analytical Services, Inc.
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MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

Lab Project Number: 6057623
Client Project ID: SJB-GW/ D06-E

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

Lab Sample No: 605018779
Client Sample ID: 121426MAR02

Project Sample Number: 6057623-001
Matrix: Water

Date Collected: 03/26/02 12:14
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	04/02/02 23:51	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/02/02 23:51	100-41-4		
Toluene	ND	ug/l	2.0	04/02/02 23:51	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/02/02 23:51	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		04/02/02 23:51	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

Lab Sample No: 605018787
Client Sample ID: 122326MAR02

Project Sample Number: 6057623-002
Matrix: Water

Date Collected: 03/26/02 12:23
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	21.	ug/l	2.0	04/03/02 19:03	71-43-2		
Ethylbenzene	20.	ug/l	2.0	04/03/02 19:03	100-41-4		
Toluene	24.	ug/l	2.0	04/03/02 19:03	108-88-3		
Xylene (Total)	97.	ug/l	5.0	04/03/02 19:03	1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		04/03/02 19:03	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

Lab Sample No: 605018795
Client Sample ID: 120526MAR02

Project Sample Number: 6057623-003

Matrix: Water

Date Collected: 03/26/02 12:05

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	65.	ug/l	2.0	04/03/02 09:25	MJW	71-43-2		
Ethylbenzene	6.1	ug/l	2.0	04/03/02 09:25	MJW	100-41-4		
Toluene	11.	ug/l	2.0	04/03/02 09:25	MJW	108-88-3		
Xylene (Total)	30.	ug/l	5.0	04/03/02 09:25	MJW	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		04/03/02 09:25	MJW	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

Lab Sample No: 605018803
Client Sample ID: 122526MAR02

Project Sample Number: 6057623-004
Matrix: Water

Date Collected: 03/26/02 12:25
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	6.5	ug/l	2.0	04/03/02 09:55	MJW	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/03/02 09:55	MJW	100-41-4		
Toluene	ND	ug/l	2.0	04/03/02 09:55	MJW	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/03/02 09:55	MJW	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		04/03/02 09:55	MJW	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

Lab Sample No: 605018811
Client Sample ID: 120926MAR02

Project Sample Number: 6057623-005

Matrix: Water

Date Collected: 03/26/02 12:09

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	330	ug/l	20.	04/03/02 10:25	DCKI	71-43-2		
Ethylbenzene	240	ug/l	20.	04/03/02 10:25	DCKI	100-41-4		
Toluene	350	ug/l	20.	04/03/02 10:25	DCKI	108-88-3		
Xylene (Total)	1100	ug/l	50.	04/03/02 10:25	DCKI	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		04/03/02 10:25	DCKI	2164-17-2	1	

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

Lab Sample No: 605018829
Client Sample ID: 115326MAR02

Project Sample Number: 6057623-006
Matrix: Water

Date Collected: 03/26/02 11:53
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	23.	ug/l	2.0	04/03/02 19:32	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/03/02 19:32	100-41-4		
Toluene	8.3	ug/l	2.0	04/03/02 19:32	108-88-3		
Xylene (Total)	35.	ug/l	5.0	04/03/02 19:32	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		04/03/02 19:32	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

Lab Sample No: 605018837
Client Sample ID: 114226MAR02

Project Sample Number: 6057623-007
Matrix: Water

Date Collected: 03/26/02 11:42
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	32.	ug/l	2.0	04/03/02 11:52	71-43-2		
Ethylbenzene	4.2	ug/l	2.0	04/03/02 11:52	100-41-4		
Toluene	ND	ug/l	2.0	04/03/02 11:52	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/03/02 11:52	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		04/03/02 11:52	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

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] Elevated quantitation limits resulting from a dilution.

Date: 04/04/02

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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: 6057623
Client Project ID: SJB-GW/D06-E

QC Batch: 120213
QC Batch Method: EPA 8021
Associated Lab Samples: 605018779 605018787 605018795 605018803 605018811 605018829 605018837

Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics

METHOD BLANK: 605020601

Associated Lab Samples: 605018779 605018787 605018795 605018803 605018811 605018829 605018837

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)	%	99		

LABORATORY CONTROL SAMPLE: 605020619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20	19.71	98	84-122	
Ethylbenzene	ug/l	20	19.23	96	85-117	
Toluene	ug/l	20	19.89	100	87-117	
Xylene (Total)	ug/l	60	60.51	101	85-119	
a,a,a-Trifluorotoluene (S)				98	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605020627 605020635

Parameter	Units	605018779 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	20.74	19.64	104	98	82-123	5	10	
Ethylbenzene	ug/l	0.6828	20.00	19.32	18.37	93	88	84-118	5	10	
Toluene	ug/l	0.1304	20.00	20.07	19.08	100	95	82-117	5	10	
Xylene (Total)	ug/l	0.5255	60.00	61.29	58.45	101	96	84-121	5	13	
a,a,a-Trifluorotoluene (S)						96	99	83-115			

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057623

Client Project ID: SJB-GW/ DOG-E

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 26, 2002

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

RE: Lab Project Number: 6059947
Client Project ID: DOGE

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

Lab Project Number: 6059947

Client Project ID: DOGE

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6059947-001	605212497	143117JUN02	Water	06/17/02 14:31	06/20/02 09:00
6059947-002	605212505	150217JUN02	Water	06/17/02 15:02	06/20/02 09:00
6059947-003	605212513	143917JUN02	Water	06/17/02 14:39	06/20/02 09:00
6059947-004	605212521	142117JUN02	Water	06/17/02 14:21	06/20/02 09:00
6059947-005	605212539	145517JUN02	Water	06/17/02 14:55	06/20/02 09:00
6059947-006	605212547	151817JUN02	Water	06/17/02 15:18	06/20/02 09:00
6059947-007	605212554	141317JUN02	Water	06/17/02 14:13	06/20/02 09:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059947

Client Project ID: D0GE

Lab Sample No: 605212497
Client Sample ID: 143117JUN02

Project Sample Number: 6059947-001
Matrix: Water

Date Collected: 06/17/02 14:31
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	5.6	ug/l	2.0	06/21/02 22:45	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 22:45	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 22:45	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 22:45	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		06/21/02 22:45	JPR	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059947
Client Project ID: DOGE

Lab Sample No: 605212505
Client Sample ID: 150217JUN02

Project Sample Number: 6059947-002
Matrix: Water

Date Collected: 06/17/02 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	220	ug/l	20.	06/24/02 14:05	JPR	71-43-2		
Ethylbenzene	460	ug/l	20.	06/24/02 14:05	JPR	100-41-4		
Toluene	600	ug/l	20.	06/24/02 14:05	JPR	108-88-3		
Xylene (Total)	2000	ug/l	50.	06/24/02 14:05	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	302	%		06/24/02 14:05	JPR	98-08-8	1,2	

Date: 06/26/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059947
Client Project ID: D06E

Lab Sample No: 605212513
Client Sample ID: 143917JUN02

Project Sample Number: 6059947-003
Matrix: Water

Date Collected: 06/17/02 14:39
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	1000	ug/l	20.	06/21/02 23:48	JPR	71-43-2	3	
Ethylbenzene	10.	ug/l	2.0	06/21/02 23:48	JPR	100-41-4		
Toluene	70.	ug/l	2.0	06/21/02 23:48	JPR	108-88-3		
Xylene (Total)	190	ug/l	5.0	06/21/02 23:48	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	392	%		06/21/02 23:48	JPR	98-08-8	2	

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059947
Client Project ID: D0GE

Lab Sample No: 605212521
Client Sample ID: 142117JUN02

Project Sample Number: 6059947-004
Matrix: Water

Date Collected: 06/17/02 14:21
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	10.	ug/l	2.0	06/24/02 15:40	JPR	71-43-2		
Ethylbenzene	85.	ug/l	2.0	06/24/02 15:40	JPR	100-41-4		
Toluene	27.	ug/l	2.0	06/24/02 15:40	JPR	108-88-3		
Xylene (Total)	250	ug/l	5.0	06/24/02 15:40	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	604	%		06/24/02 15:40	JPR	98-08-8	2	

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059947
Client Project ID: D0GE

Lab Sample No: 605212539
Client Sample ID: 145517JUN02

Project Sample Number: 6059947-005
Matrix: Water

Date Collected: 06/17/02 14:55
Date Received: 06/20/02 09:00

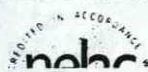
Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	1700	ug/l	50.	06/24/02 16:11	JPR	71-43-2		
Ethylbenzene	180	ug/l	50.	06/24/02 16:11	JPR	100-41-4		
Toluene	ND	ug/l	50.	06/24/02 16:11	JPR	108-88-3		
Xylene (Total)	640	ug/l	120	06/24/02 16:11	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	108	%		06/24/02 16:11	JPR	98-08-8	1	

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059947
Client Project ID: DOGE

Lab Sample No: 605212547
Client Sample ID: 151817JUN02

Project Sample Number: 6059947-006
Matrix: Water

Date Collected: 06/17/02 15:18
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	3.2	ug/l	2.0	06/22/02 01:22	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/22/02 01:22	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/22/02 01:22	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/22/02 01:22	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		06/22/02 01:22	JPR	98-08-8		

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059947

Client Project ID: D0GE

Lab Sample No: 605212554
Client Sample ID: 141317JUN02

Project Sample Number: 6059947-007
Matrix: Water

Date Collected: 06/17/02 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	06/22/02 02:24	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/22/02 02:24	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/22/02 02:24	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/22/02 02:24	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		06/22/02 02:24	JPR	98-08-8		

Date: 06/26/02

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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] Elevated quantitation limits resulting from a dilution.
[2] Surrogate recovery outside of acceptance window confirmed as a matrix effect by the analysis of a duplicate or MS/MSD on this sample.
[3] Result from a 1:10 dilution run on 6-24-02.

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: 6059947

Client Project ID: D06E

QC Batch: 124770 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605212497 605212505 605212513 605212521 605212539
 605212547 605212554

METHOD BLANK: 605214832
Associated Lab Samples: 605212497 605212505 605212513 605212521 605212539 605212547 605212554

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: 605214840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.49	102	84-122	
Ethylbenzene	ug/l	20.00	20.37	102	85-117	
Toluene	ug/l	20.00	19.96	100	87-117	
Xylene (Total)	ug/l	60.00	61.70	103	85-119	
a,a,a-Trifluorotoluene (S)				99	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605217454 605217462

Parameter	Units	605212554 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Footnotes
Benzene	ug/l	0.5846	20.00	21.03	20.26	102	98	82-123	4	10
Ethylbenzene	ug/l	0	20.00	20.48	19.62	102	98	84-118	4	10
Toluene	ug/l	0.6244	20.00	20.22	19.35	98	94	82-117	4	10
Xylene (Total)	ug/l	1.350	60.00	61.60	58.65	100	96	84-121	5	13
a,a,a-Trifluorotoluene (S)						101	101	83-115		

Date: 06/26/02

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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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October 10, 2002

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

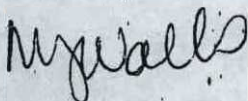
RE: Lab Project Number: 6063378
Client Project ID: DOGE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on October 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: 6063378
Client Project ID: D0GE

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6063378-001	605485895	155128SEP02	Water	09/28/02 15:51	10/02/02 10:15
6063378-002	605485903	160028SEP02	Water	09/28/02 16:00	10/02/02 10:15
6063378-003	605485911	161228SEP02	Water	09/28/02 16:12	10/02/02 10:15
6063378-004	605485929	162328SEP02	Water	09/28/02 16:23	10/02/02 10:15
6063378-005	605485937	163528SEP02	Water	09/28/02 16:35	10/02/02 10:15
6063378-006	605485945	170528SEP02	Water	09/28/02 17:05	10/02/02 10:15

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063378
Client Project ID: DOGE

Lab Sample No: 605485895
Client Sample ID: 155128SEP02

Project Sample Number: 6063378-001
Matrix: Water

Date Collected: 09/28/02 15:51
Date Received: 10/02/02 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	13.	ug/l	2.0	1.0	10/10/02 09:25 SHF		71-43-2		
Ethylbenzene	43.	ug/l	2.0	1.0	10/10/02 09:25 SHF		100-41-4		
Toluene	28.	ug/l	2.0	1.0	10/10/02 09:25 SHF		108-88-3		
Xylene (Total)	160	ug/l	5.0	1.0	10/10/02 09:25 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	10/10/02 09:25 SHF		98-08-8		

Date: 10/10/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063378
Client Project ID: DOGE

Lab Sample No: 605485903
Client Sample ID: 160028SEP02

Project Sample Number: 6063378-002
Matrix: Water

Date Collected: 09/28/02 16:00
Date Received: 10/02/02 10:15

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	10/09/02 19:51 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/09/02 19:51 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/09/02 19:51 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/09/02 19:51 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	10/09/02 19:51 SHF		98-08-8		

Date: 10/10/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063378
Client Project ID: D0GE

Lab Sample No: 605485911
Client Sample ID: 161228SEP02

Project Sample Number: 6063378-003
Matrix: Water

Date Collected: 09/28/02 16:12
Date Received: 10/02/02 10:15

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	10/09/02 20:19 SHF		71-43-2,		
Ethylbenzene	ND	ug/l	2.0	1.0	10/09/02 20:19 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/09/02 20:19 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/09/02 20:19 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	10/09/02 20:19 SHF		98-08-8		

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063378
Client Project ID: DOGE

Lab Sample No: 605485929
Client Sample ID: 162328SEP02

Project Sample Number: 6063378-004
Matrix: Water

Date Collected: 09/28/02 16:23
Date Received: 10/02/02 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	25.	ug/l	2.0		1.0 10/09/02 20:48 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 10/09/02 20:48 SHF		100-41-4		
Toluene	41.	ug/l	2.0		1.0 10/09/02 20:48 SHF		108-88-3		
Xylene (Total)	81.	ug/l	5.0		1.0 10/09/02 20:48 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%			1.0 10/09/02 20:48 SHF		98-08-8		

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Lab Project Number: 6063378
Client Project ID: DOGE

Lab Sample No: 605485937
Client Sample ID: 163528SEP02

Project Sample Number: 6063378-005
Matrix: Water

Date Collected: 09/28/02 16:35
Date Received: 10/02/02 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	69.	ug/l	4.0	2.0	10/10/02 09:53 SHF		71-43-2,		
Ethylbenzene	110	ug/l	4.0	2.0	10/10/02 09:53 SHF		100-41-4		
Toluene	180	ug/l	4.0	2.0	10/10/02 09:53 SHF		108-88-3		
Xylene (Total)	540	ug/l	10.	2.0	10/10/02 09:53 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	10/10/02 09:53 SHF		98-08-8		

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063378
Client Project ID: DOGE

Lab Sample No: 605485945
Client Sample ID: 170528SEP02

Project Sample Number: 6063378-006
Matrix: Water

Date Collected: 09/28/02 17:05
Date Received: 10/02/02 10:15

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	10/09/02 21:46 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/09/02 21:46 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/09/02 21:46 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/09/02 21:46 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	10/09/02 21:46 SHF		98-08-8		

Date: 10/10/02

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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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 6063378
Client Project ID: D0GE

QC Batch: 131381
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605485895 605485903 605485911 605485929 605485937 605485945

METHOD BLANK: 605503531
Associated Lab Samples: 605485895 605485903 605485911 605485929 605485937 605485945

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)	%	103		

LABORATORY CONTROL SAMPLE: 605503549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	21.31	107	84-122	
Ethylbenzene	ug/l	20.00	20.93	105	85-117	
Toluene	ug/l	20.00	20.98	105	87-117	
Xylene (Total)	ug/l	60.00	64.43	107	85-119	
a,a,a-Trifluorotoluene (S)				102	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

January 09, 2003

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

RE: Lab Project Number: 6066150
Client Project ID: SJB-GW/DOGE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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: 6066150
Client Project ID: SJB-GW/D0GE

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6066150-001	605710284	113020DEC02	Water	12/20/02 11:30	12/26/02 08:55
6066150-002	605710292	112420DEC02	Water	12/20/02 11:24	12/26/02 08:55
6066150-003	605710300	114320DEC02	Water	12/20/02 11:43	12/26/02 08:55
6066150-004	605710318	113420DEC02	Water	12/20/02 11:34	12/26/02 08:55
6066150-005	605710326	113820DEC02	Water	12/20/02 11:38	12/26/02 08:55
6066150-006	605710334	114920DEC02	Water	12/20/02 11:49	12/26/02 08:55
6066150-007	605710342	115520DEC02	Water	12/20/02 11:55	12/26/02 08:55

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Lab Project Number: 6066150
Client Project ID: SJB-GW/D0GE

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6066150-001	605710284	113020DEC02	8020	WPAC	Aromatic Volatile Organics	5
6066150-002	605710292	112420DEC02	8020	WPAC	Aromatic Volatile Organics	5
6066150-003	605710300	114320DEC02	8020	WPAC	Aromatic Volatile Organics	5
6066150-004	605710318	113420DEC02	8020	WPAC	Aromatic Volatile Organics	5
6066150-005	605710326	113820DEC02	8020	WPAC	Aromatic Volatile Organics	5
6066150-006	605710334	114920DEC02	8020	WPAC	Aromatic Volatile Organics	5
6066150-007	605710342	115520DEC02	8020	WPAC	Aromatic Volatile Organics	5

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Lab Project Number: 6066150
Client Project ID: SJB-GW/D0GE

Lab Sample No: 605710284
Client Sample ID: 113020DEC02

Project Sample Number: 6066150-001
Matrix: Water

Date Collected: 12/20/02 11:30
Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	19.	ug/l	2.0	1.0	12/31/02 23:05	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/31/02 23:05	JPR	100-41-4		
Toluene	13.	ug/l	2.0	1.0	12/31/02 23:05	JPR	108-88-3		
Xylene (Total)	27.	ug/l	5.0	1.0	12/31/02 23:05	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	12/31/02 23:05	JPR	98-08-8		

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Lab Project Number: 6066150
Client Project ID: SJB-GW/DOGE

Lab Sample No: 605710292
Client Sample ID: 112420DEC02

Project Sample Number: 6066150-002
Matrix: Water

Date Collected: 12/20/02 11:24
Date Received: 12/26/02 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	12/31/02 23:39 JPR		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/31/02 23:39 JPR		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/31/02 23:39 JPR		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/31/02 23:39 JPR		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	12/31/02 23:39 JPR		98-08-8		

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Lab Project Number: 6066150
Client Project ID: SJB-GW/DOGE

Lab Sample No: 605710300
Client Sample ID: 114320DEC02

Project Sample Number: 6066150-003
Matrix: Water

Date Collected: 12/20/02 11:43
Date Received: 12/26/02 08:55

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	01/01/03 00:12	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	01/01/03 00:12	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	01/01/03 00:12	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	01/01/03 00:12	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	01/01/03 00:12	JPR	98-08-8		

Date: 01/09/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066150
Client Project ID: SJB-GW/D0GE

Lab Sample No: 605710318
Client Sample ID: 113420DEC02

Project Sample Number: 6066150-004
Matrix: Water

Date Collected: 12/20/02 11:34
Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	6.3	ug/l	2.0	1.0	01/03/03 17:53	JPR	71-43-2		
Ethylbenzene	46.	ug/l	40.	20.0	01/03/03 17:53	JPR	100-41-4		
Toluene	45.	ug/l	40.	20.0	01/03/03 17:53	JPR	108-88-3		
Xylene (Total)	180	ug/l	100	20.0	01/03/03 17:53	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	01/03/03 17:53	JPR	98-08-8	1	

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Lab Project Number: 6066150
Client Project ID: SJB-GW/DOGE

Lab Sample No: 605710326
Client Sample ID: 113820DEC02

Project Sample Number: 6066150-005
Matrix: Water

Date Collected: 12/20/02 11:38
Date Received: 12/26/02 08:55

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

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Lab Project Number: 6066150
Client Project ID: SJB-GW/D0GE

Lab Sample No: 605710334 Project Sample Number: 6066150-006 Date Collected: 12/20/02 11:49
Client Sample ID: 114920DEC02 Matrix: Water Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	250	ug/l	10.		5.0 01/03/03 18:26 JPR		71-43-2		
Ethylbenzene	210	ug/l	10.		5.0 01/03/03 18:26 JPR		100-41-4		
Toluene	790	ug/l	10.		5.0 01/03/03 18:26 JPR		108-88-3		
Xylene (Total)	1400	ug/l	25.		5.0 01/03/03 18:26 JPR		1330-20-7		
a,a,a-Trifluorotoluene (S)	110	%			1.0 01/03/03 18:26 JPR		98-08-8	1	

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Lab Project Number: 6066150
Client Project ID: SJB-GW/D0GE

Lab Sample No: 605710342
Client Sample ID: 115520DEC02

Project Sample Number: 6066150-007
Matrix: Water

Date Collected: 12/20/02 11:55
Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	01/01/03 03:01 JPR		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	01/01/03 03:01 JPR		100-41-4		
Toluene	ND	ug/l	2.0	1.0	01/01/03 03:01 JPR		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	01/01/03 03:01 JPR		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	01/01/03 03:01 JPR		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 was diluted due to the presence of high levels of target analytes.

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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: 6066150
Client Project ID: SJB-GW/DOGE

QC Batch: 136603
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605710284 605710292 605710300 605710318 605710326
605710334 605710342

METHOD BLANK: 605717461
Associated Lab Samples: 605710284 605710292 605710300 605710318 605710326 605710334 605710342

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)	%	95		

LABORATORY CONTROL SAMPLE: 605717479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.58	103	84-122	
Ethylbenzene	ug/l	20.00	20.49	102	85-117	
Toluene	ug/l	20.00	20.49	102	87-117	
Xylene (Total)	ug/l	60.00	62.19	104	85-119	
a,a,a-Trifluorotoluene (S)				93	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605718600 605718618

Parameter	Units	605710342 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0.6713	20.00	21.91	23.05	106	112	82-123	5	10	
Ethylbenzene	ug/l	0	20.00	20.10	20.35	100	102	84-118	1	10	
Toluene	ug/l	0.3722	20.00	21.38	21.06	105	103	82-117	2	10	
Xylene (Total)	ug/l	0.9013	60.00	58.14	59.48	95	98	84-121	2	13	
a,a,a-Trifluorotoluene (S)						97	100	83-115			

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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

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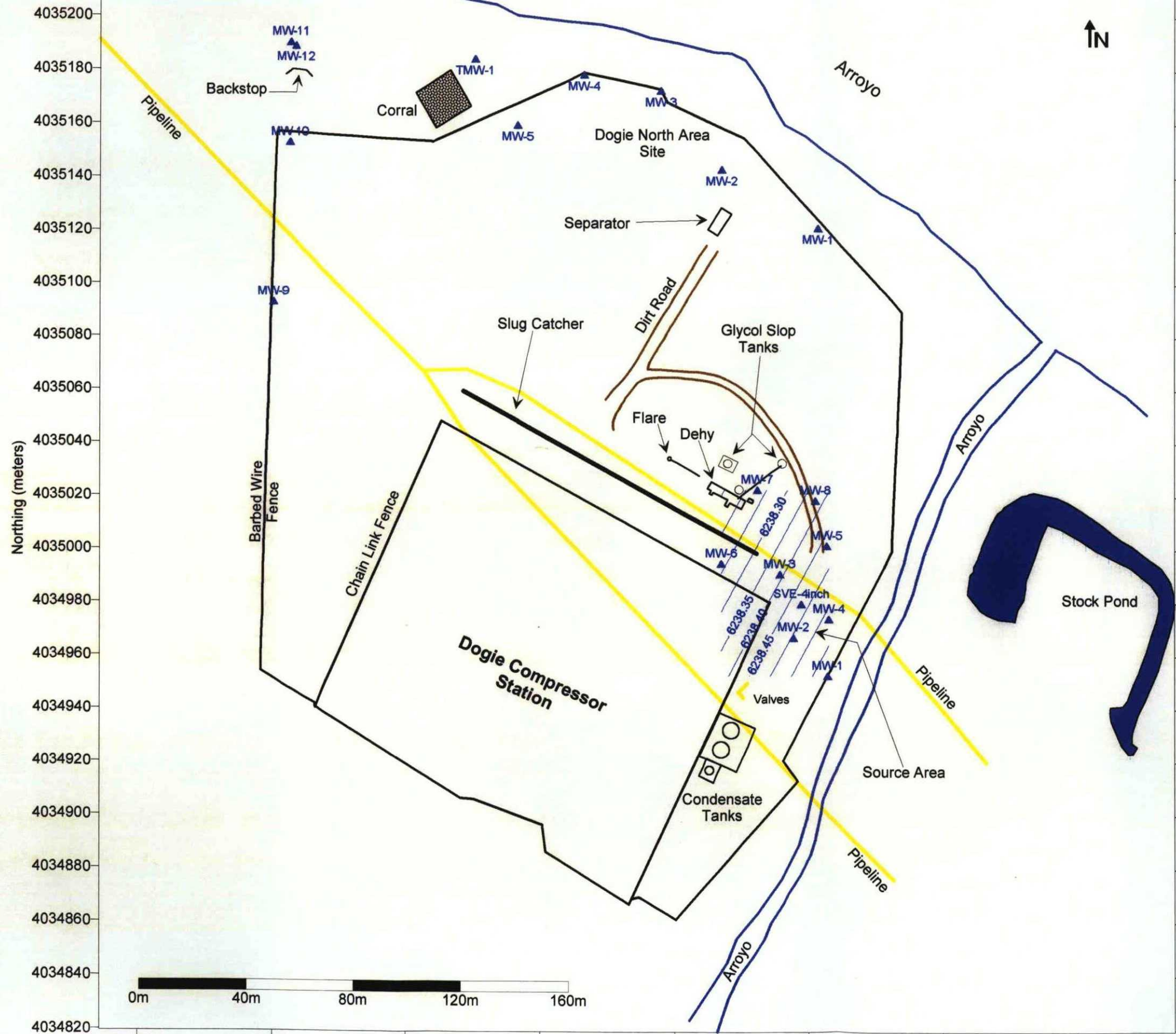


Figure 2
Potentiometric
Surface Map
Dogie Compressor Station (East Site)
(March 26, 2002)

LEGEND

MW-2



Monitoring Well

5585.20

Ground Water Elevation (ft. AMSL)

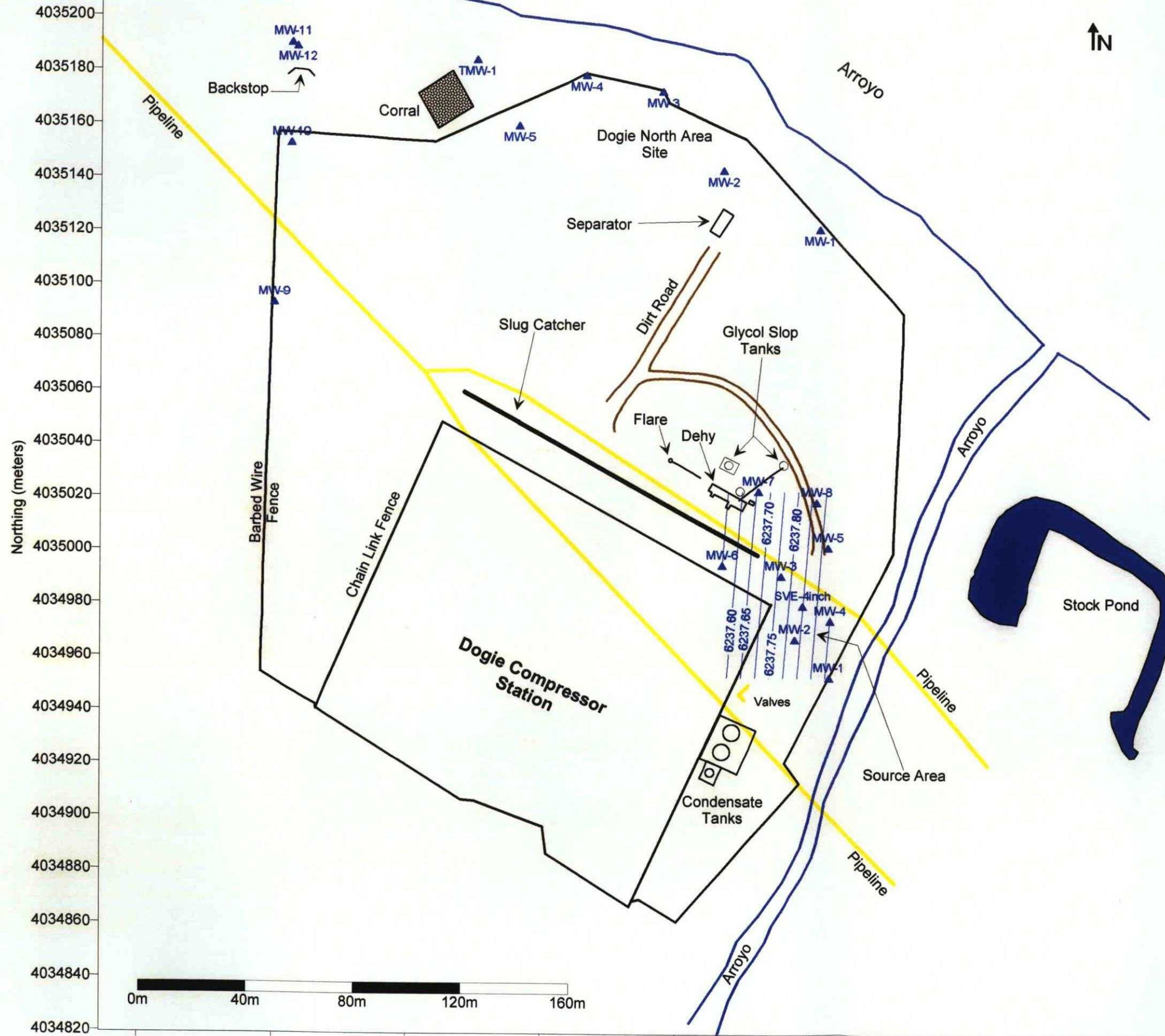


Figure 2
Potentiometric
Surface Map
Dogie Compressor Station (East Site)
(June 17, 2002)

LEGEND

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

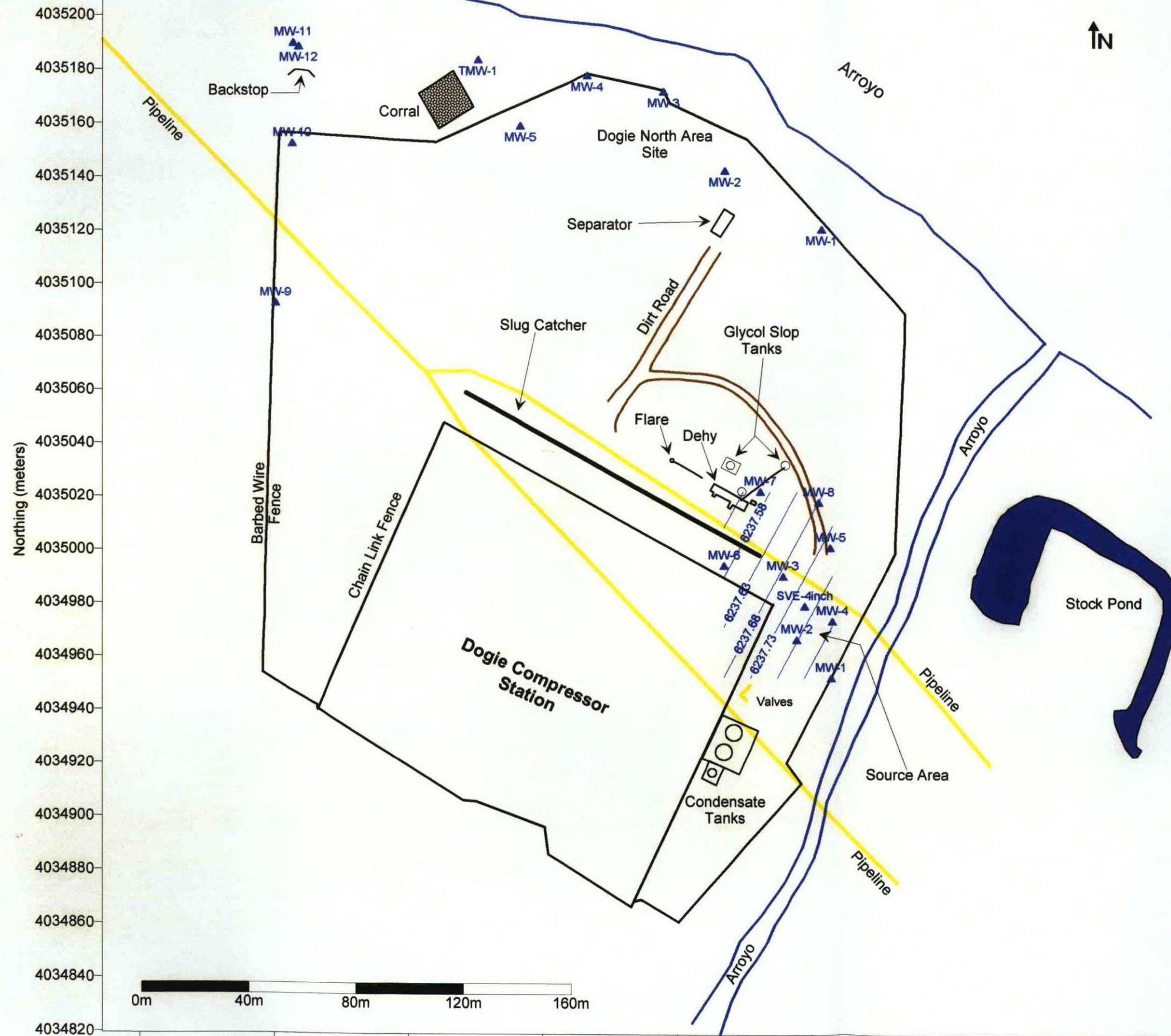


Figure 2
Potentiometric
Surface Map
Dogie Compressor Station (East Site)
(September 28, 2002)

LEGEND

MW-2

Monitoring Well

— 5585.20 —

Ground Water Elevation (ft. AMSL)



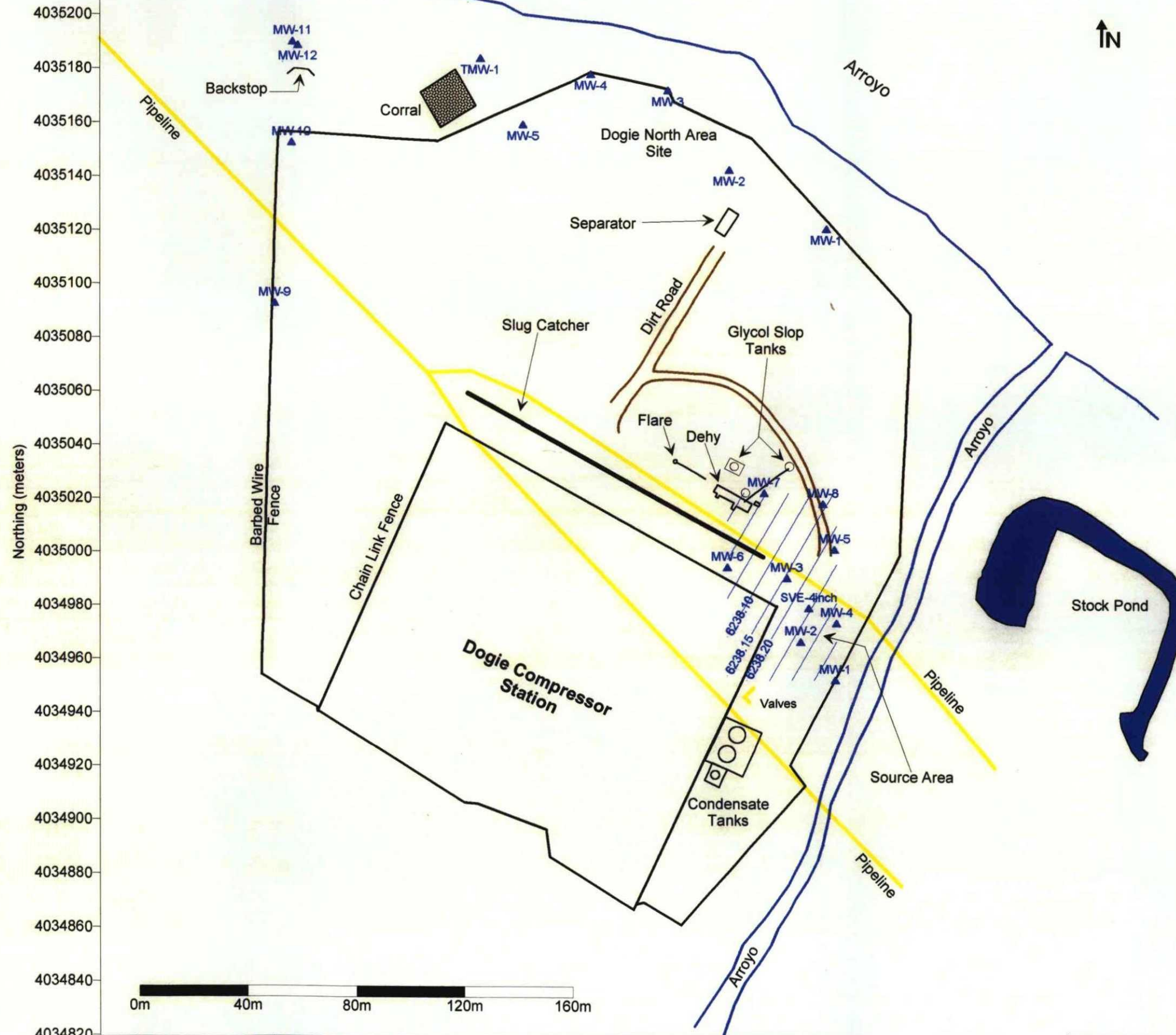


Figure 2
Potentiometric
Surface Map
Dogie Compressor Station (East Site)
(December 20, 2002)

LEGEND

MW-2
▲ Monitoring Well

5595.20
Ground Water Elevation (ft. AMSL)