

3R - 155

REPORTS

DATE:

2002

Certified Mail: #7001 1940 0002 1371 7676

February 28, 2003

RECEIVED

MAR 05 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RE: 2002 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 30 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 30 Annual Reports (Volumes 1, 2 and 3) by land type. Volume 1 contains Annual Reports for sites found on Federal land. Volume 2 contains Non Federal sites and Volume 3 contains sites on Navajo land. Of the 30 reports submitted, EPFS is requesting closure of three sites located on Navajo lands. Of the three Navajo sites submitted for closure OCD has closed the Charley Pah #4 and the John Charles #8. The Rementa et al #1 has not been closed by either agency and EPFS reiterates request for closure of this site. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Nation Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

Three additional sites were submitted for closure in 2002. EPFS recently has received closure on the W.D. Heath B-5. Closure approval is pending on the D Loop Line Drip and Hammond # 41A. All of these sites are included in the 2002 Annual Report.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,



Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7001 1940 0002 1371 7669**
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), **Certified Mail # 7001 1940 0002 1371 7652**



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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

El Paso Field Services

San Juan Basin Pit Program Groundwater Sites Project

2002 Annual Report Federal Sites (Volume 1)

March 2003



MWH

10619 South Jordan Gateway, Suite 100
Salt Lake City, Utah 84095

EL PASO FIELD SERVICES ANNUAL GROUNDWATER REPORT

FEDERAL SITES VOLUME I

TABLE OF CONTENTS

Site Map

METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
89961	Fields A#7A	32N	11W	34	E
89232	Johnston Fed #6A	31N	09W	35	F
94715	James F. Bell #1E	30N	13W	10	P
89620	Sandoval GC A #1A	30N	09W	35	C
87493	W D Heath B-5	30N	09W	31	M
LD151	Lat 0-21 Line Drip	30N	09W	12	O
73220	Fogelson 4-1 Com. #14	29N	11W	4	P
97213	Hamner #9	29N	09W	20	A
72890	Ohio C Government #3	28N	11W	26	P
LD169	D Loop Line Drip	28N	08W	33	I
LD174	LAT LD 40	28N	04W	13	H
89894	Hammond #41A	27N	08W	25	O
94810	Miles Fed 1A	26N	07W	5	F
LD072	K27 LD072	25N	06W	4	E
87640	Canada Mesa #2	24N	06W	24	I



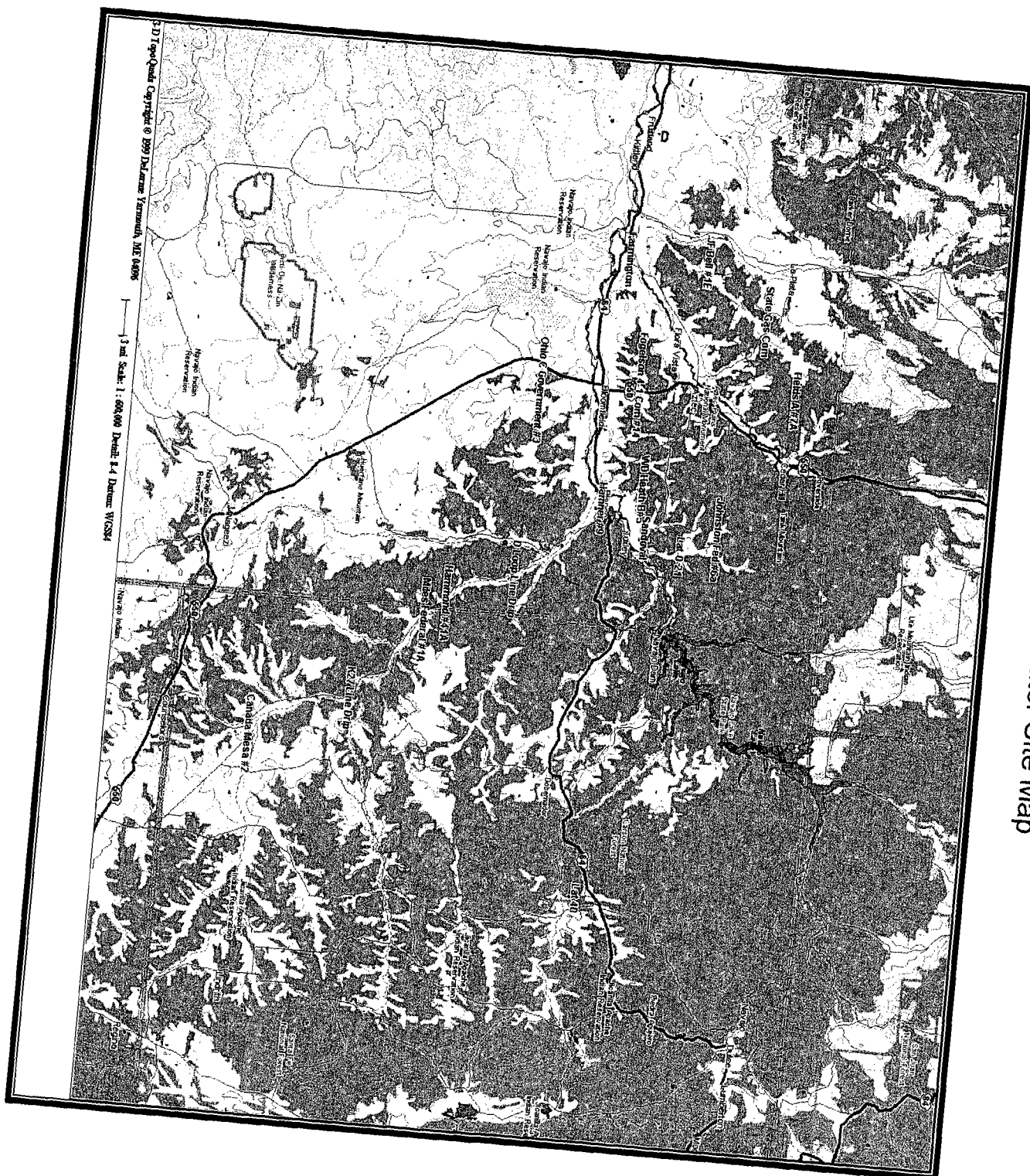
MWH

MONTGOMERY WATSON HARZA

ACRONYMS

B	Benzene
E	Ethylbenzene
EPFS	El Paso Field Services
ft	foot/feet
GWEL	groundwater elevation
ID	identifier
MW	Monitoring Well
PSH	Phase Separated Hydrocarbons
NMWQCC	New Mexico Water Quality Control Commission
T	Toluene
TOC	Top Of Casing
NE	not established
NS	not sampled
ORC	oxygen release compound
OCD	Oil Conservation Division
ppb	parts per billion
µg/L	micrograms per liter
X	Total Xylenes

Federal Groundwater Site Map



**EPFS GROUNDWATER SITES
2002 ANNUAL GROUNDWATER REPORT**

**Canada Mesa #2
Meter Code: 87640**

SITE DETAILS

LEGAL DESCRIPTION: Twn: 24N Rng: 6W Sec: 24 Unit: I
NMOCD Haz Ranking: 40 **Land Type:** Federal **Operator:** Merrion Oil & Gas Company

PREVIOUS ACTIVITIES

Site Assessment: 7/94 **Excavation:** 8/94 **Soil Boring:** 8/95
Monitor Well: 8/95 **Geoprobe:** NA **Additional MWs:** 10/00
Downgradient MWs: 10/00 **Replace MW:** NA **Quarterly Initiated:** 8/95
ORC Nutrient Injection: NA **Re-Excavation:** NA **PSH Removal Initiated:** 8/97
Annual Initiated: 11/00 **Quarterly Resumed:** NA

SUMMARY OF 2002 ACTIVITIES

MW-1:

- Weekly free-product removal (including water levels) was performed at this well through May 2002. Because only minimal amounts of free-phase hydrocarbons were recovered during the first half of the year, the frequency of free-product removal activities were reduced to quarterly after May 2002.
- A routine inspection of the passive skimmer in this well was performed.

MW-2:

- Annual groundwater sampling (December 2002) was performed.
- Quarterly water level monitoring was performed.

MW-3:

- Annual groundwater sampling (December 2002) was performed.
- Quarterly water level monitoring was performed.

Site-Wide Activities: No other activities were performed at this site during 2002.

SUMMARY TABLES AND GRAPHS

- Groundwater analytical data are summarized in Table 1 and are presented graphically in Figures 5 through 7.
- Free-product recovery data for MW-1 is summarized in Table 2 and are presented graphically in Figure 8.
- Laboratory Reports are presented in Attachment 1.
- Field documentation is presented in Attachment 2.

**EPFS GROUNDWATER SITES
2002 ANNUAL GROUNDWATER REPORT**

**Canada Mesa #2
Meter Code: 87640**

SITE MAP

Site maps are attached as Figures 1 through 4.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2002.

DISPOSITION OF GENERATED WASTES

All phase-separated hydrocarbons were disposed of at the EPFS Kutz Separator located in Bloomfield, New Mexico.

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this site, however, the attached site maps present both potentiometric surface and analytical data collected during 2002.

CONCLUSIONS

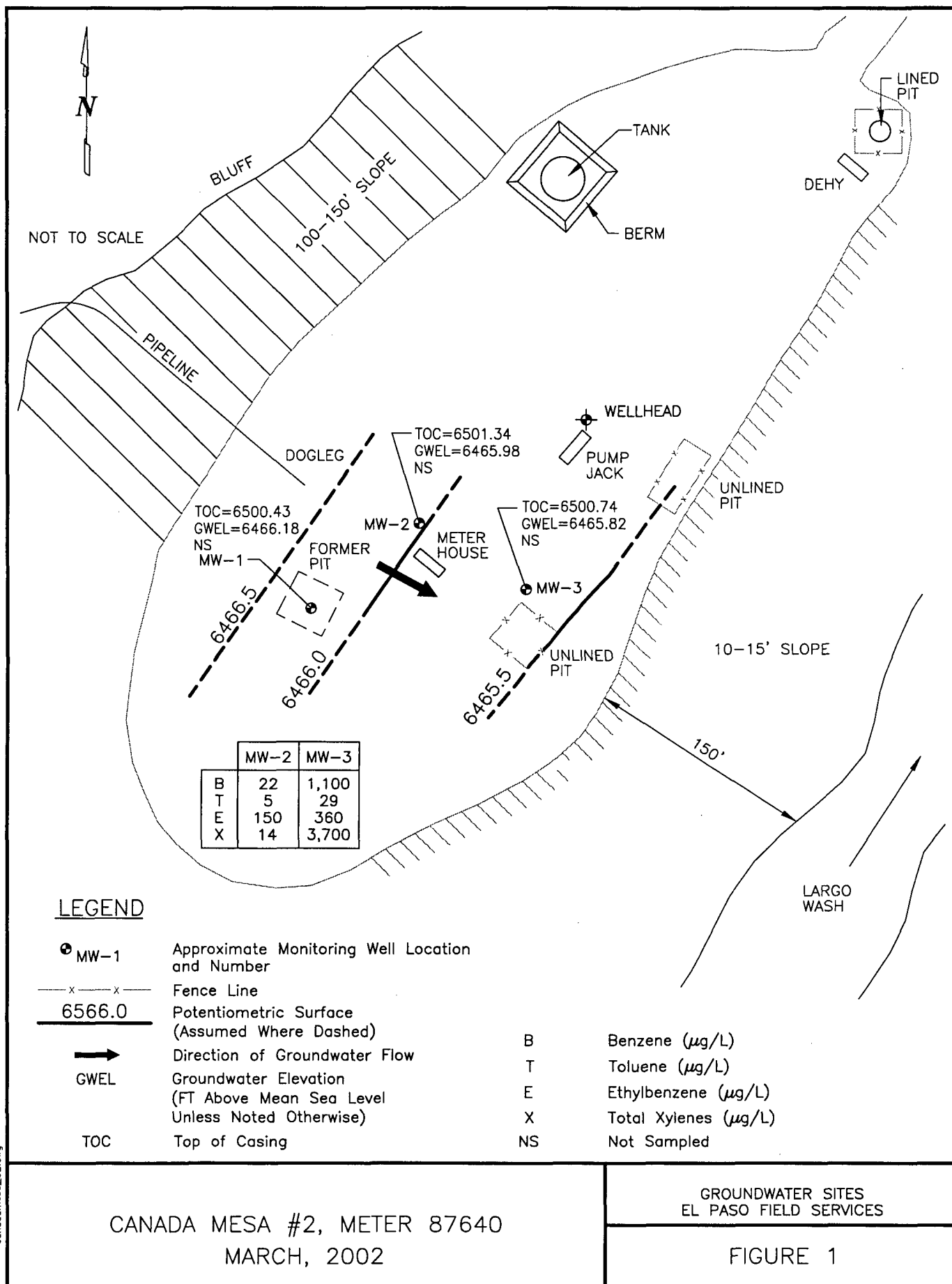
- The benzene concentration in MW-2 significantly decreased from 3,200 µg/l to less than 25 µg/ since the last sampling round (November 2000).
- The benzene concentration in MW-3 ranged from 1,100 µg/ to 1,430 µg/ during 2002 as compared to 880 µg/ in November 2000.
- Free-product recovery at MW-1 resulted in removal of approximately 0.03 gallons of free-phase hydrocarbons bringing the cumulative total recovered to date to 36.69 gallons.
- As mentioned in the 2001 Annual Report, EPFS evaluated this site for installation of an additional downgradient monitoring well. Groundwater flow direction at the site was consistently to the southeast during 2002 with the exception of data collected during December. Based on the relative change in potentiometric surface data collected in December, it is believed that these data contain a measurement error for MW-1. The ultimate conclusion regarding the groundwater flow direction is that the flow is to the southeast, and that MW-3 serves as a downgradient monitoring point for this site.

**EPFS GROUNDWATER SITES
2002 ANNUAL GROUNDWATER REPORT**

**Canada Mesa #2
Meter Code: 87640**

RECOMMENDATIONS

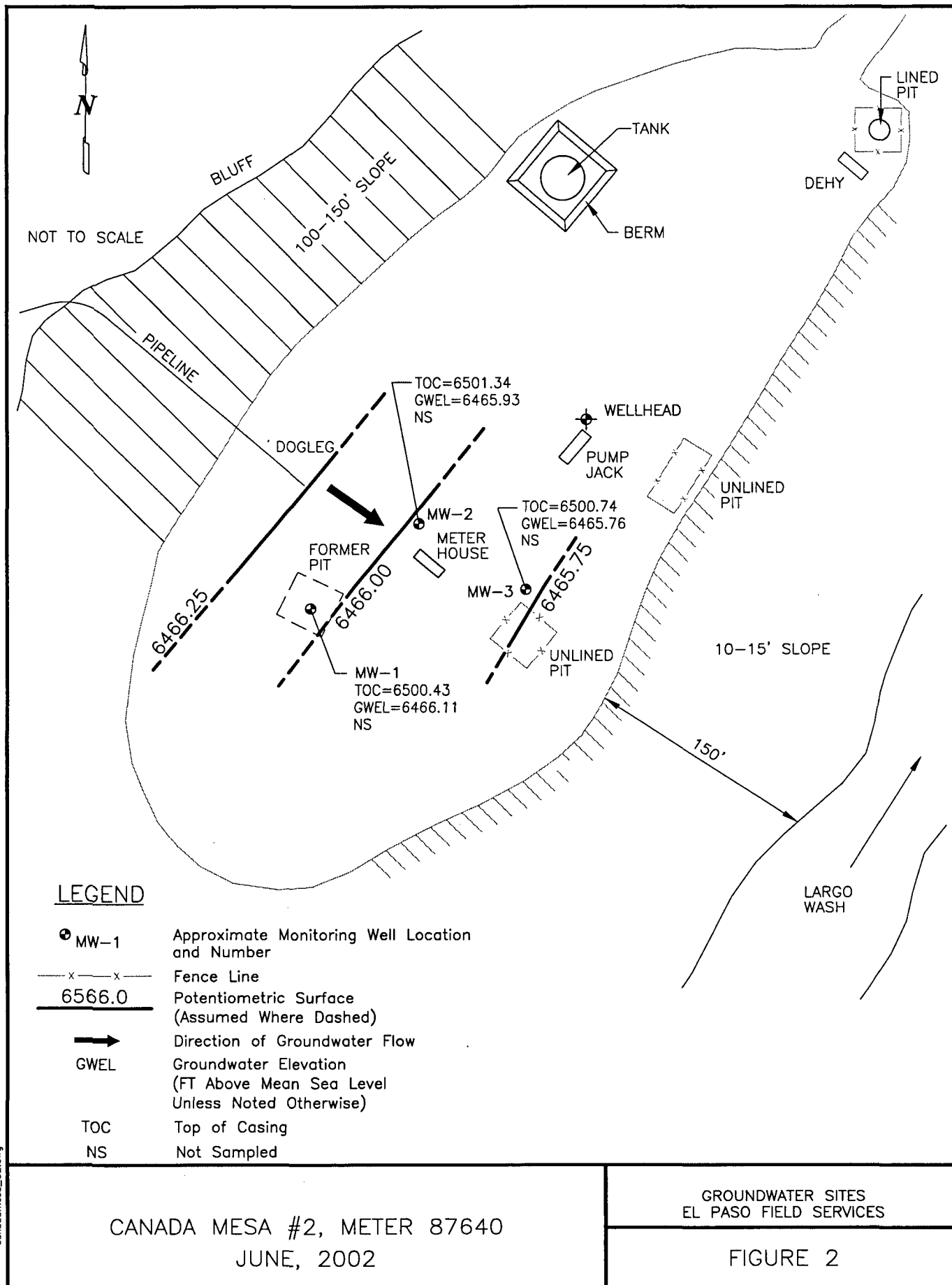
- EPFS intends to redevelop MW-1 in an attempt to enhance free-product recovery.
- Free-product removal activities will continue, as needed, at MW-1
- EPFS will continue sampling MW-2 and MW-3 on an annual basis.
- Once free-product recovery efforts are completed at MW-1, this well will be sampled on an annual basis until sample results approach closure criteria. The well will then be scheduled for quarterly sampling until closure criteria are met.



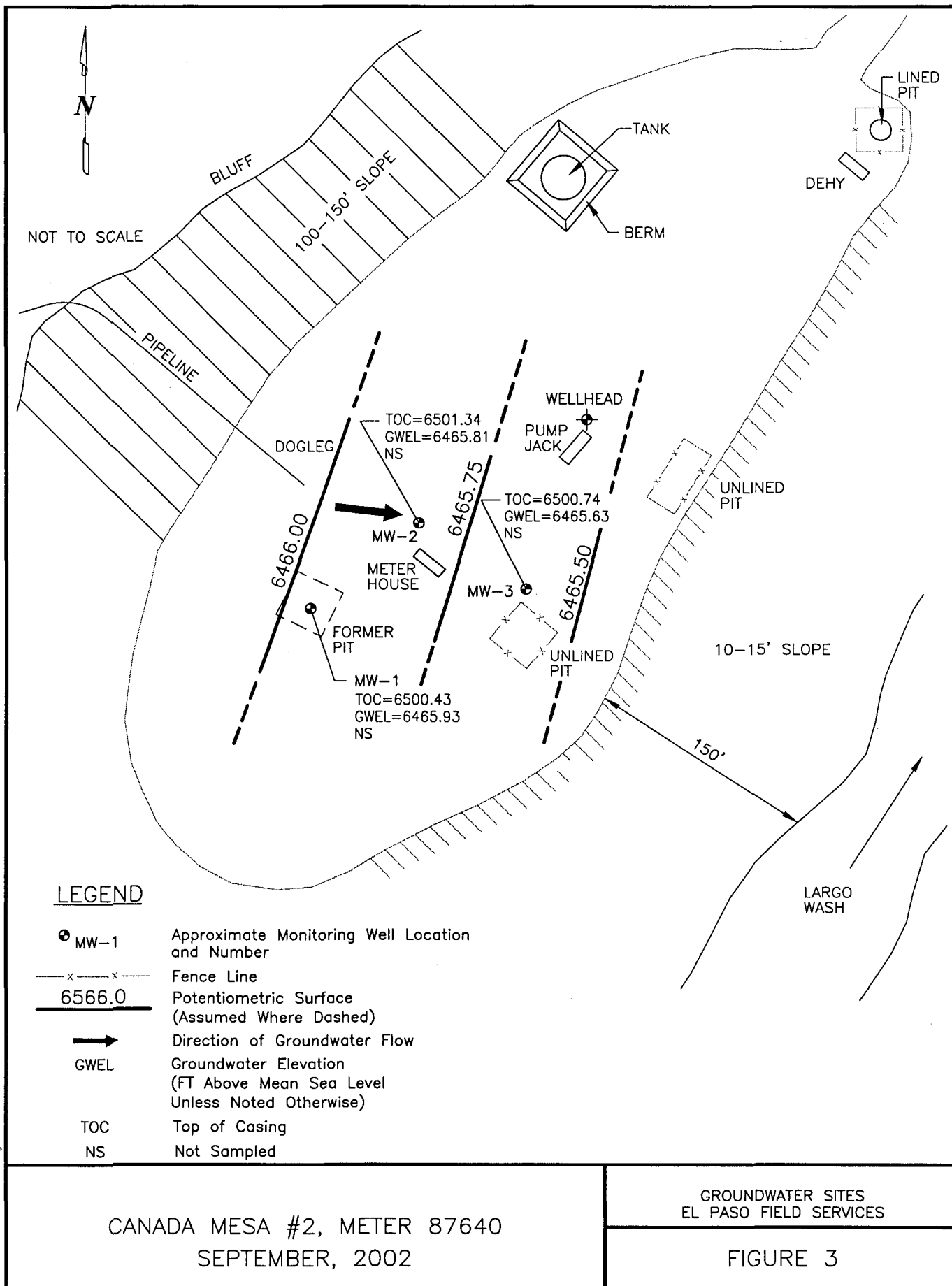
CANADA MESA #2, METER 87640
MARCH, 2002

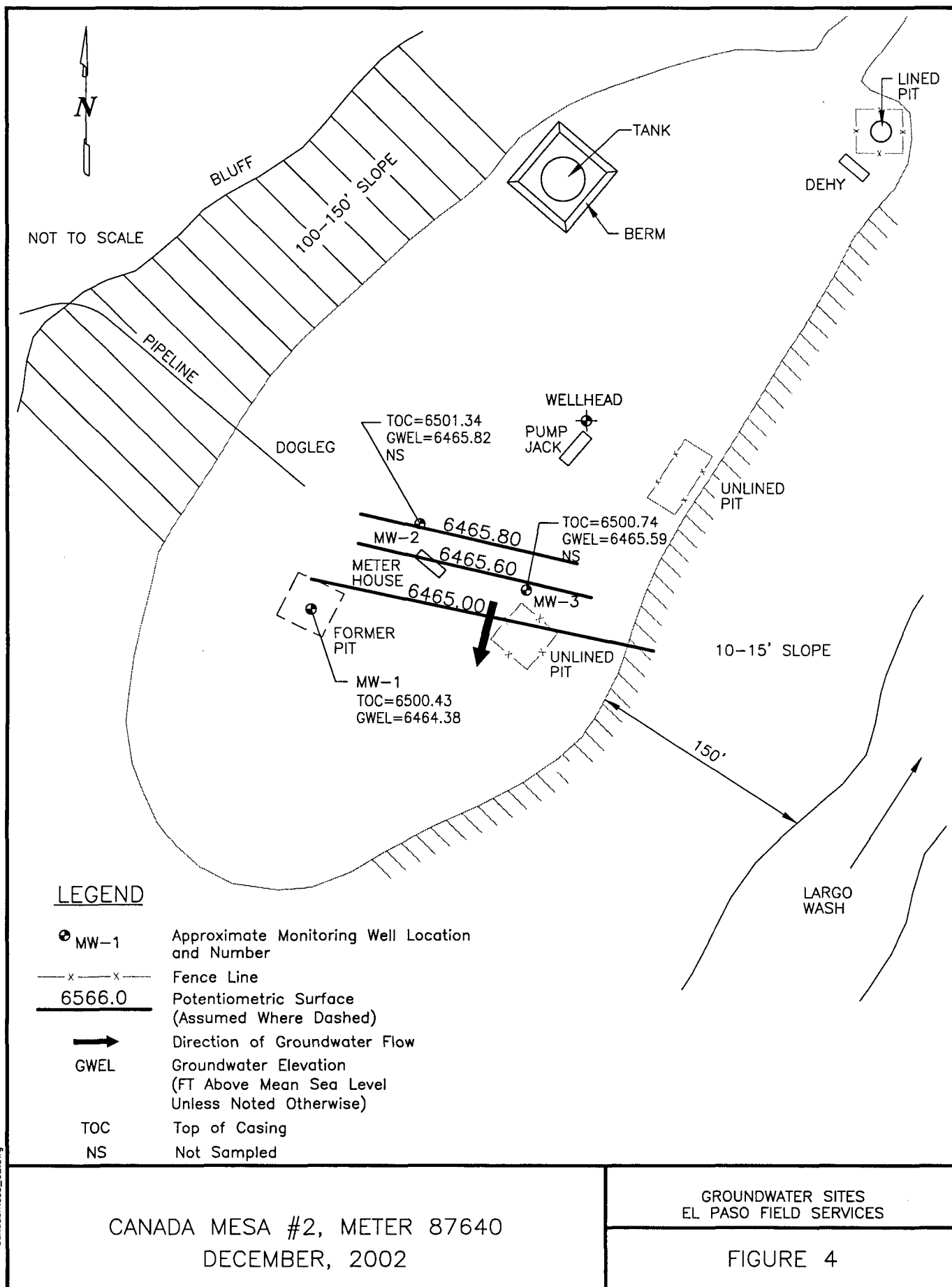
GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1



canadamesa_02.dwg





canadamesa_02.dwg

TABLE 1

SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER
CANADA MESA #2 (METER #87640)
(Page 1 of 1)

Sample Identification	Sample Date	MW Identification	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	m,p-Xylene (µg/l)	o-Xylene (µg/l)	Total Xylenes (µg/l)
CAN-0203-MW2	19-Mar-2002	2	22	<5.0	150	NA	NA	14
02-6831-2	24-Dec-2002	2	12.1	2.1	129	14	2.4	16.4
CAN-0203-MW3	19-Mar-2002	3	1100	29	360	NA	NA	3700
02-6831-3	24-Dec-2002	3	1430	95	483	2190	169	2359

Figure 5
Historical BTEX Concentration and Groundwater Elevation vs. Time
Canada Mesa #2 (Meter #87640)
MW-1

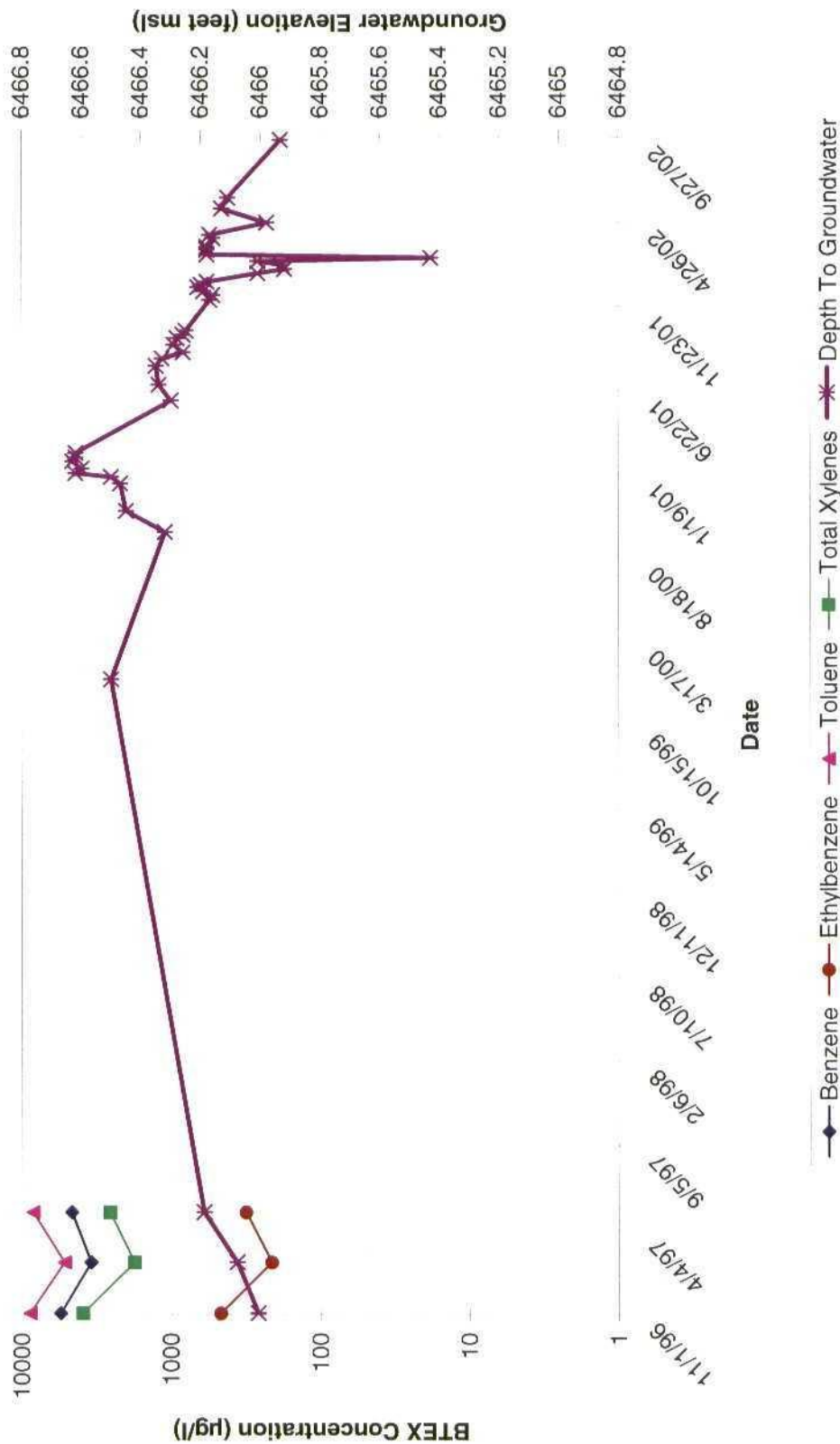


Figure 6
 BTEX Concentration and Groundwater Elevation vs. Time
 Canada Mesa #2 (Meter #87640)
 MW-2

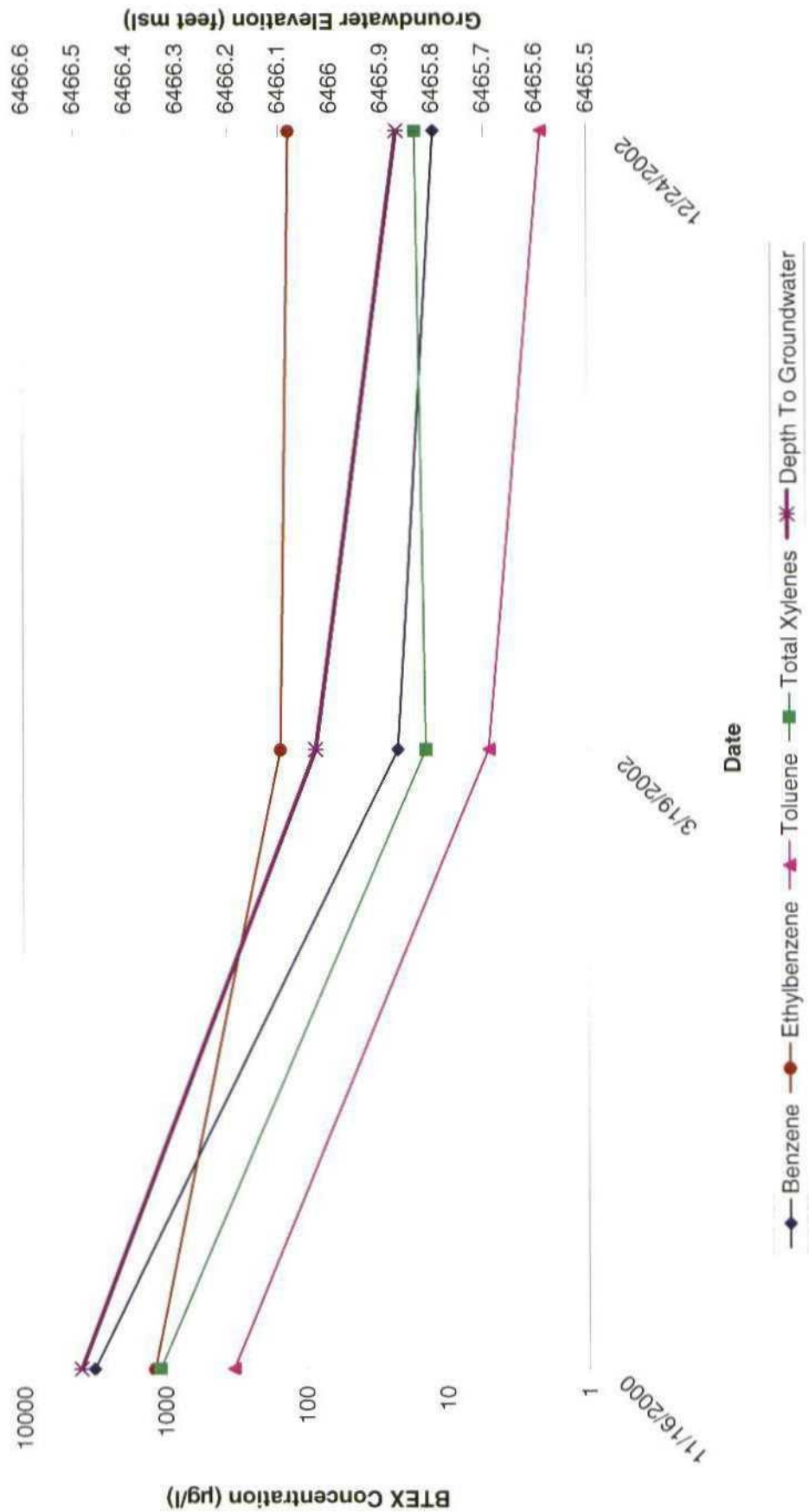


Figure 7
 BTEX Concentration and Groundwater Elevation vs. Time
 Canada Mesa #2 (Meter #87640)
 MW-3

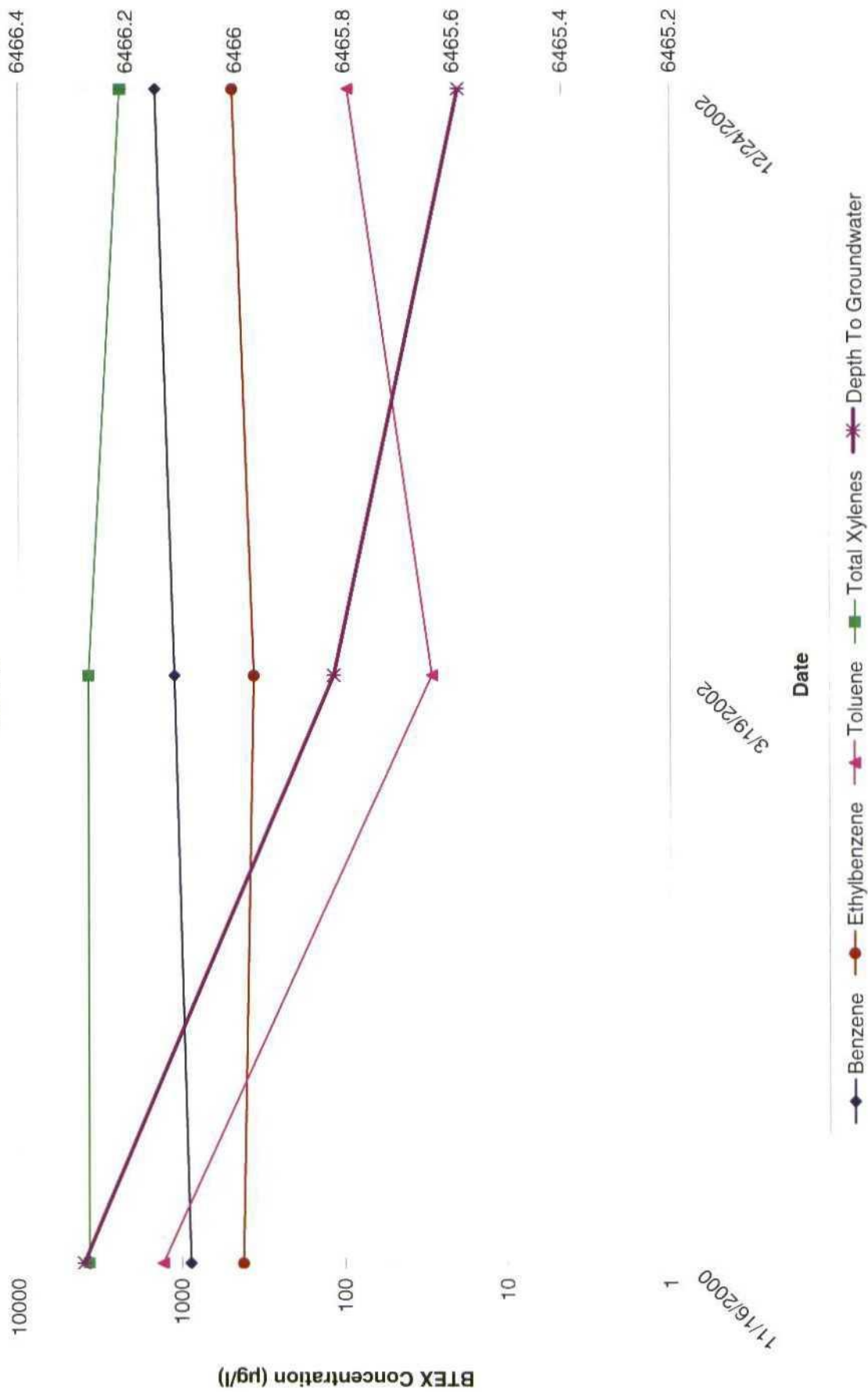
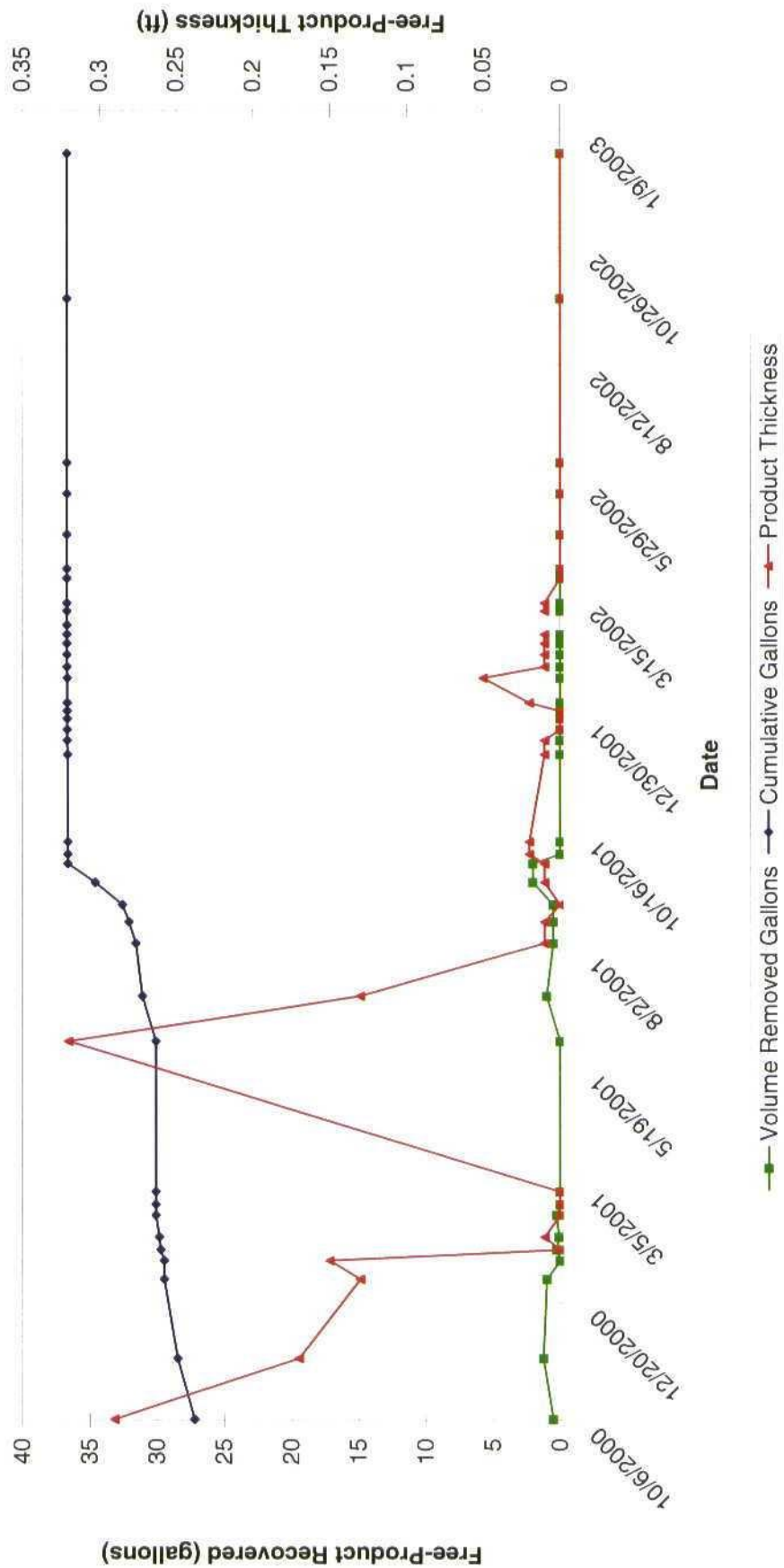


TABLE 2

SUMMARY OF FREE-PRODUCT RECOVERY
CANADA MESA #2 (METER #87640)
 (Page 1 of 1)

MW Identification	Date	Depth to Product (feet bgs)	Depth to Water (feet bgs)	Product Thickness (feet)	Volume Product Removed (gallons)	Cumulative Product Removed (gallons)
1	02-Jan-2002	NA	34.23	0.00	0.00	36.66
1	07-Jan-2002	34.23	34.25	0.02	0.00	36.66
1	23-Jan-2002	34.37	34.42	0.05	0.01	36.67
1	30-Jan-2002	34.50	34.51	0.01	0.01	36.68
1	07-Feb-2002	34.49	34.50	0.01	0.00	36.68
1	14-Feb-2002	34.41	34.42	0.01	0.00	36.68
1	20-Feb-2002	34.99	35.00	0.01	0.00	36.68
1	26-Feb-2002	NA	34.25	0.00	0.00	36.68
1	07-Mar-2002	34.24	34.25	0.01	0.00	36.68
1	12-Mar-2002	34.24	34.25	0.01	0.00	36.68
1	28-Mar-2002	NA	34.27	0.00	0.01	36.69
1	03-Apr-2002	NA	34.26	0.00	0.00	36.69
1	25-Apr-2002	NA	34.45	0.00	0.00	36.69
1	10-Jun-2002	NA	34.32	0.00	0.00	36.69
1	23-Sep-2002	NA	34.49	0.00	0.00	36.69
1	24-Dec-2002	NA	36.05	0.00	0.00	36.69

Figure 8
Free-Product Recovery vs. Time
Canada Mesa #2 (Meter #87640)
MW-1



ATTACHMENT 1

LABORATORY REPORTS

DATA VALIDATION WORKSHEET

(Page 1 of 2)

Analytical Method/Analytes: <u>SW-846 8021B (BTEX)</u>		Sample Collection Date(s): <u>12/23-24/02</u>	
Laboratory: <u>APCL</u>		MWH Job Number: <u>EPC-SJRB</u> (Groundwater)	
Batch Identification: <u>02-06831</u>		Matrix: <u>Water</u>	
MS/MSD Parent(s) ^(a) : <u>02-06831-05</u>		Field Replicate Parent(s): <u>None</u>	
Validation Complete: <u><i>[Signature]</i></u> <u>1-16-03</u> (Date/Signature)			

Foot Notes	Site ID	Sample ID	Lab. ID	Hits (Y/N)	Quals.	Comments
1	GW	Jennepah MW-1	02-06831-01	Y	B B B B B	Benzene @ 27.4 µg/l Ethylbenzene @ 62.5 µg/l Toluene @ 67.1 µg/l o-Xylene @ 210 µg/l m/p-Xylene @ 128 µg/l
1	GW	Canada Mesa MW-2	02-06831-02	Y	B B UB UB B	Benzene @ 12.1 µg/l Ethylbenzene @ 129 µg/l Toluene @ 2.1 µg/l o-Xylene @ 2.4 µg/l m/p-Xylene @ 14 µg/l
1	GW	Canada Mesa MW-3	02-06831-03	Y	B B B B B	Benzene @ 1,430 µg/l Ethylbenzene @ 483 µg/l Toluene @ 95 µg/l o-Xylene @ 169 µg/l m/p-Xylene @ 2,190 µg/l
1	GW	Ohio "C" Govt #3 MW-5	02-06831-04	Y	B B UB B B	Benzene @ 5.6 µg/l Ethylbenzene @ 15.4 µg/l Toluene @ 0.7 µg/l o-Xylene @ 18.6 µg/l m/p-Xylene @ 59 µg/l
1	QC	TB02101501	02-06831-05	Y		Benzene @ 0.3T µg/l Ethylbenzene @ 1.5 µg/l Toluene @ 0.5 µg/l o-Xylene @ 0.5 µg/l m/p-Xylene @ 2.4 µg/l

DATA VALIDATION WORKSHEET

(Page 2 of 2)

Analytical Method: SW-846 8021B (BTEX) MWH Job Number: EPC-SJRB (Groundwater)

Laboratory: APCL Batch Identification: 02-06831

Validation Criteria								
Sample ID	Jennepah MW-1	Canada Mesa MW-2	Canada Mesa MW-3	Ohio "C" Govt #3 MW-5	TB 02101501			
Lab ID	02-06831-01	02-06831-02	02-06831-03	02-06831-04	02-06831-05			
Holding Time	A	A	A	A	A			
Analyte List	A	A	A	A	A			
Reporting Limits	A	A	A	A	A			
Method Blank	A	A	A	A	A			
Trip Blank	A ¹	A ¹	A ¹	A ¹	A ¹			
Equipment Rinseate Blanks	N/A	N/A	N/A	N/A	N/A			
Field Duplicate/Replicate	N/A	N/A	N/A	N/A	N/A			
Initial Calibration	N	N	N	N	N			
Initial Calibration Verification (ICV)	N	N	N	N	N			
Continuing Calibration Verification (CCV)	A	A	A	A	A			
Laboratory Control Sample (LCS)	A	A	A	A	A			
Laboratory Control Sample Duplicate (LCSD)	N	N	N	N	N			
Matrix Spike/Matrix Spike Dup. (MS/MSD)	N/A	N/A	N/A	N/A	A			
Surrogate Spike Recovery	A	A	A	A	A			
Retention Time Window	N	N	N	N	N			
Injection Time(s)	N	N	N	N	N			
Hardcopy vs. Chain-of-Custody	A	A	A	A	A			
EDD vs. Hardcopy	N	N	N	N	N			
EDD vs. Chain of Custody	N	N	N	N	N			

(a) List QC batch identification if different than Batch ID

A indicates validation criteria were met

A/L indicates validation criteria met based upon Laboratory's QC Summary Form

X indicates validation criteria were not met

N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method or sample

N/R indicates data not available for review

NOTES:

1) The following analytes were detected in the trip blank:

- Benzene @ 0.37 µg/L, qualify all sample concentrations less than or equal to 1.5 µg/L with a "UB" flag and all sample concentrations greater than 1.5 µg/L with a "B" flag.
- Ethylbenzene @ 1.5 µg/L, qualify all sample concentrations less than or equal to 7.5 µg/L with a "UB" flag and all sample concentrations greater than 7.5 µg/L with a "B" flag.
- Toluene @ 0.5 µg/L, qualify all sample concentrations less than or equal to 2.5 µg/L with a "UB" flag and all sample concentrations greater than 2.5 µg/L with a "B" flag.
- o-Xylene @ 0.5 µg/L, qualify all sample concentrations less than or equal to 2.5 µg/L with a "UB" flag and all sample concentrations greater than 2.5 µg/L with a "B" flag.
- m/p-Xylene @ 2.4 µg/L, qualify all sample concentrations less than or equal to 12 µg/L with a "UB" flag and all sample concentrations greater than 12 µg/L with a "B" flag.

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

Montgomery Watson Harza

Attention: Brian Butters

10619 South Jordan Gateway

Salt Lake City, UT 84095

Tel: (801)617-3200 Fax: (801)617-4200

APCL QA/QC Report

Service ID #: 801-026831

Received: 12/26/02

Collected by: Delbert Belcis

Tested: 12/26-31/02

Collected on: 10/15-12/24/02

Reported: 01/09/03

Sample description:

Water

Project: San Juan River Basin /220013

Analysis of Water

801-026831QC

Component Name	Analysis Batch #	CCV (µg/L)	CCV %Rec	M-Blank	Conc. Unit	SP Level	LCS %Rec	MS %Rec	MSD %Rec	MS/MSD %RPD	Control Limit %Rec	%Diff
BTXE												
Benzene	02G5133	100	97	N.D.	µg/L	18.0	86	80	80	1	68-130	31
Toluene	02G5133	100	103	N.D.	µg/L	70.0	88	80	80	0	66-133	33
Ethylbenzene	02G5133	100	105	N.D.	µg/L	18.0	95	78	78	0	65-134	35
m/p-Xylene	02G5133	200	98	N.D.	µg/L	70.0	91	79	79	0	65-134	35
o-Xylene	02G5133	100	99	N.D.	µg/L	25.0	89	79	80	1	65-134	35

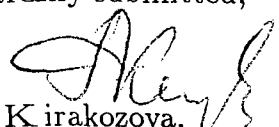
Component Name	Analysis Batch #	CCV (µg/L)	CCV %Rec	M-Blank	Conc. Unit	SP Level	LCS %Rec	MS %Rec	MSD %Rec	MS/MSD %RPD	Control Limit %Rec	%Diff
BTXE												
Benzene	02G5174	100	98	N.D.	µg/L	18.0	76	79	78	1	68-130	31
Toluene	02G5174	100	105	N.D.	µg/L	70.0	77	79	80	1	66-133	33
Ethylbenzene	02G5174	100	107	N.D.	µg/L	18.0	83	77	77	1	65-134	35
m/p-Xylene	02G5174	200	100	N.D.	µg/L	70.0	79	79	78	1	65-134	35
o-Xylene	02G5174	100	100	N.D.	µg/L	25.0	78	76	76	0	65-134	35

*: LCS/LCSD is used.

Notation: ICV - Initial Calibration Verification
CCV - Continuation Calibration Verification
LCS - Lab Control Spike
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ICS - Interference Check Standard
MD - Matrix Duplicate
N.D. - Not detected or less than PQL

CCB - Continuation Calibration Blank
M-blank - Method Blank
SP Level - Spike Level
%Rec - Recovery Percent
%RPD - Relative Percent Differences
%Diff - Control Limit for %RPD
ICP-SD - ICP Serial Dilution
N.A. - Not Applicable

Respectfully submitted,


Regina Kirakozova,
Associate QA/QC Director
Applied P & Ch Laboratory

FORM-2A

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 8021B

Client Name: Montgomery Watson Harza

Contract No:

Lab Code: APCL

Case No:

SAS No:

SDG Number: 026831

Project ID: San Juan River Basin

Project No: 220013

Sample Matrix: Water

Batch No: 02G5133

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1		02G5133-LCS-01	85	0
2		02G5133-LSD-01	82	0
3		02G5133-MB-02	87	0
4	MW-1	02-6831-1	120	0
5	MW-2	02-6831-2	105	0
6	MW-5	02-6831-4	96	0
7	TB02101501	02-6831-5	89	0
8	TB02101501	02-6831-5MS	89	0
9	TB02101501	02-6831-5MSD	88	0
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

S1 = 4-BROMO-FLUOROBENZENE (PID)

QC Control Limit

65-134

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits

D - Surrogate diluted out

I - Matrix Interference

FORM-2A

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 8021B

Client Name: Montgomery Watson Harza

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 026831

Project ID: San Juan River Basin

Project No: 220013

Sample Matrix: Water

Batch No: 02G5174

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1		02G5174-LCS-01	82	0
2		02G5174-LSD-01	80	0
3		02G5174-MB-02	85	0
4	MW-3	02-6831-3	106	0
5	333-MW01-WG3	02-6870-1MS	82	0
6	333-MW01-WG3	02-6870-1MSD	83	0
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

S1 = 4-BROMO-FLUOROBENZENE (PID)

QC Control Limit

65-134

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits

D - Surrogate diluted out

I - Matrix Interference

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

Montgomery Watson Harza

Attention: Brian Butters

10619 South Jordan Gateway

Salt Lake City UT 84095

Tel: (801)617-3200 Fax: (801)617-4200

APCL Analytical Report

Service ID #: 801-026831

Received: 12/26/02

Collected by: Delbert Belcis

Extracted: N/A

Collected on: 10/15-12/24/02

Tested: 12/26-31/02

Reported: 01/03/03

Sample Description: Water

Project Description: 220013

San Juan River Basin

Groundwater

Analysis of Water Samples

Jennepah Analysis Results Canada					
Component Analyzed	Method	Unit	PQL	MW-1	MW-2
				02-06831-1	02-06831-2
BTXE					
Dilution Factor				1	1
BENZENE	8021B	µg/L	0.5	27.4	12.1
ETHYLBENZENE	8021B	µg/L	0.5	62.5	129
TOLUENE	8021B	µg/L	0.5	67.1	2.1
O-XYLENE	8021B	µg/L	0.5	210	2.4
M,P-XYLENE	8021B	µg/L	1	128	14

Component Analyzed	Method	Unit	PQL	Canada Mesa MW-3 02-06831-3	Ohio Cleveland MW-5 02-06831-4	Analysis Result TB02101501 02-06831-5
BTXE						
Dilution Factor				5	1	1
BENZENE	8021B	µg/L	0.5	1,430	5.6	0.3J
ETHYLBENZENE	8021B	µg/L	0.5	483	15.4	1.5
TOLUENE	8021B	µg/L	0.5	95	0.7	0.5
O-XYLENE	8021B	µg/L	0.5	169	18.6	0.5
M,P-XYLENE	8021B	µg/L	1	2,190	59	2.4

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

[Signature]
Dominic Lau

Laboratory Director

Applied P & Ch Laboratory

CHAIN OF CUSTODY RECORD/LAB WORK REQUEST

LABORATORY APCL

Contract El Paso Corp., San Juan River Basin

Chain of Custody ID 021224 DB
Page 1 of 1
Air Bill No. 836381676760

MWH

Phone (801) 617-3200 FAX (801) 617-4200

MWH Contact Brian Butters

Project Sanduan River Basin

Project Number 220013

Date Due 21 Days

Sampler's Name Delbert Belas
(print clearly)

Location ID	Sample ID	Depth Interval (ft)	Date Collected	Time Collected	Matrix (a)	Sampling Technique (b)	ANALYSES REQUESTED										
							BTEX SW-846 8021B	Alkalinity SM 2320B	TDS USEPA 160.1	NM WQCC Metals SW-846 6010B & 7470A	Cations SW-846 6010B	Anions USEPA 300.0	Nitrate USEPA 300.0	Nitrite USEPA 300.0			
GW - Jeneedah	MW-1		12/23/02	1125	W6	B	✓										
GW - OHIC "c" bovt # 3	MW-5		12/23/02	1530	W6	B	✓										
GW - Canada Mesa	MW-2		12/24/02	1205	W6	B	✓										
GW - Canada Mesa	MW-3		12/24/02	1125	W6	B	✓										
TB02101501			10/18/02														

0.031

(a) Matrix:
SO - Soil
WS - Surface Water
WG - Ground Water

AA - Air
WQ - Trip Blank/
Equipment Blanks
WW - Wastewater

(b) Sampling Technique:
Submersible Pump=SP
Bladder Pump=BP
Bailer=B
Wellhead Faucet=WF
Hydropunch=HP

Location IDs:
Groundwater Sites=GW
Bisit=BI
Jaquez=JA

North Flare Pit=NF
South Flare Pit=SF
San Juan River Plant=SJ

Relinquished by/Affiliation	Received by/Affiliation	Date	Time
Delbert Belas / 935E	Plend K	02-11-02	1410
		12/26/02	1300

LABORATORY USE ONLY	
SAMPLES WERE: 1 Shipped or hand delivered Notes: 2 Ambient or Chilled Notes: 3 Temperature _____ 4 Received Broken/Leaking (Improperly Sealed) Notes: 5 Properly Preserved Notes: 6 Received Within Holding Times Notes:	
COC Tape Was: 1 Present on Outer Package Y N NA 2 Unbroken on Outer Package Y N NA 3 Present on Sample Y N NA 4 Unbroken on Sample Y N NA Notes:	
Discrepancies Between Sample Labels and COC Record? Y N Notes:	



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **203084**
April 10, 2002

AMEC EARTH & ENVIRONMENTAL
2060 AFTON PLACE
FARMINGTON, NM 87401

EL PASO FIELD SERVICES
614 RIELLY STREET
FARMINGTON, NM 87401

Project Name CANADA MESA #2
Project Number 1517000121

Attention: LISA WINN/SCOTT POPE

On 03/22/02 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

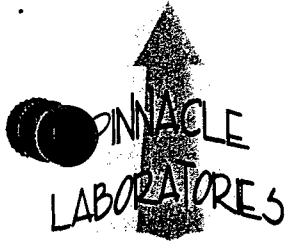
PINNACLE
LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT : AMEC EARTH & ENVIRONMENTAL
PROJECT # : 1517000121
PROJECT NAME : CANADA MESA #2

PINNACLE ID : 203084
DATE RECEIVED : 03/22/02
REPORT DATE : 04/10/02

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
03084 - 01	CAN-0203-MW2	AQUEOUS	03/19/02
03084 - 02	CAN-0203-MW3	AQUEOUS	03/19/02



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

EST : EPA 8021 MODIFIED
CLIENT : AMEC EARTH & ENVIRONMENTAL
PROJECT # : 1517000121
PROJECT NAME : CANADA MESA #2

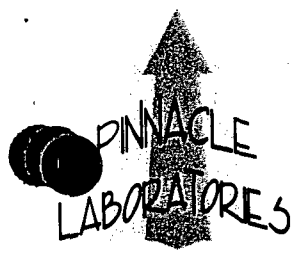
PINNACLE I.D.: 203084

AMPLE			DATE	DATE	DATE	DIL.
).	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
1	CAN-0203-MW2	AQUEOUS	03/19/02	NA	03/25/02	10
2	CAN-0203-MW3	AQUEOUS	03/19/02	NA	03/25/02	50

PARAMETER	DET. LIMIT	UNITS	CAN-0203-MW2	CAN-0203-MW3
BENZENE	0.5	UG/L	22	1100
TOLUENE	0.5	UG/L	< 5.0	29
ETHYLBENZENE	0.5	UG/L	150	360
XYLENES	1.0	UG/L	14	3700

URROGATE:				
ROMOFLUOROBENZENE (%)			96	88
URROGATE LIMITS	(80 - 120)			

HEMIST NOTES:
/A



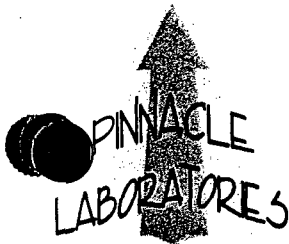
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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 203084
LABORATORY I.D.	: 032502	DATE EXTRACTED	: N/A
CLIENT	: AMEC EARTH & ENVIRONMENTAL	DATE ANALYZED	: 03/25/02
PROJECT #	: 1517000121	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: CANADA MESA #2		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
ORTHO XYLENES	UG/L	<1.0

RECOVERY:
BROMOFLUOROBENZENE (%) 86
RECOVERY LIMITS: (80 - 120)
REMARKS: N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

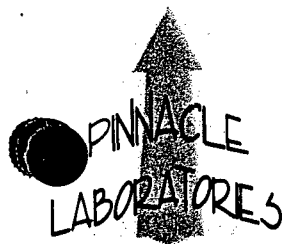
TEST : EPA 8021 MODIFIED
ATCH # : 032502
CLIENT : AMEC EARTH & ENVIRONMENTAL
PROJECT # : 1517000121
PROJECT NAME : CANADA MESA #2
PINNACLE I.D. : 203084
DATE EXTRACTED : N/A
DATE ANALYZED : 03/25/02
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	18.2	91	17.9	90	2	(80 - 120)	20
TOLUENE	<0.5	20.0	18.2	91	17.1	86	6	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	17.9	90	16.8	84	6	(80 - 120)	20
TOTAL XYLENES	<1.0	60.0	55.6	93	52.3	87	6	(80 - 120)	20

NOTES:
A

$$\text{Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

EST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 203084
ISMSD #	: 203085-01	DATE EXTRACTED	: N/A
LIENT	: AMEC EARTH & ENVIRONMENTAL	DATE ANALYZED	: 03/25/02
ROJECT #	: 1517000121	SAMPLE MATRIX	: AQUEOUS
ROJECT NAME	: CANADA MESA #2	UNITS	: UG/L

ARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS
ENZENE	6.63	20.0	23.9	86	24.4	89	2	(80 - 120)
OLUENE	<0.5	20.0	17.3	87	17.8	89	3	(80 - 120)
THYLBENZENE	15.2	20.0	31.4	81	32.6	87	4	(80 - 120)
OTAL XYLENES	96.8	60.0	144	79	149	87	3	(80 - 120)

HEMIST NOTES:

ue to concentration of Xylenes, recovery limits not applicable. LCS/LCSD data indicates samples data acceptable.

$$\text{Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{PD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

[illegible]

PLEASE FILL THIS FORM IN COMPLETELY.

11/10/98 PLI Inc.: Pinnacle Laboratories, Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413 • E-mail: PIN_LAB@WORLDNET.ATT.NET

DISTRIBUTION: White - PLI, Canary - Originator

ATTACHMENT 2
FIELD DOCUMENTATION

WELL DEVELOPMENT AND SAMPLING LOG

Project No: 220013 Project Name: San Juan River Client: MWH
 Location: Canada Mesa Well No: MW-2 Development ☐ Sampling ☐
 Project Manager: Delbert Bekis Date: 12/24/02 Start Time: 1135 Weather: cloudy, snowy
 Depth to Water: 35.52 Depth to Product: Product Thickness: Measuring Point: T.O.C.
 Water Column Height: 3.66 Well Dia: 2" T.D. 39.18

Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐
 Bottom Valve Bailer ☐ Double Check Valve Bailer ☐ Stainless-Steel Kemmerer ☐
 Criteria: 3 to 5 Casing Volumes of Water Removal ☐ Stabilization of Indicator Parameters ☐ Other ☐

Gal/ft x ft of water	Water Volume In Well		Gal/oz to be removed
	Gallons	Ounces	
<u>3.66 x .16</u>	<u>0.58 x 3</u>		<u>1.75 gal.</u>

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
<u>1135</u>	<u>6.99</u>	<u>4870</u>	<u>12.3</u>				<u>.5</u>	<u>Black, silty.</u>
	<u>7.01</u>	<u>5430</u>	<u>12.3</u>				<u>1 gal</u>	<u>grainy, and odorous.</u>
	<u>7.09</u>	<u>5430</u>	<u>12.2</u>				<u>1.5 gal</u>	
<u>1205</u>	<u>7.20</u>	<u>4900</u>	<u>10.8</u>				<u>2.0 gal</u>	<u>sample</u>

Final:

Time	pH	SC	Temp	Eh-ORP	D.O.	Turbidity	Ferrous Iron	Vol Evac.	Comments/Flow rate
<u>1205</u>	<u>7.20</u>	<u>4900</u>	<u>10.8</u>					<u>2.0</u>	<u>sample</u>

COMMENTS: Hit bottom of well, bailer could not get more water.
sampled .5 gal from last bail

INSTRUMENTATION: pH Meter ☒ DO Monitor ☐ Conductivity Meter ☒ Temperature Meter ☒ Other ☐

Water Disposal KUTZ PLANT

Sample ID Canada Mesa MW-2 Sample Time BTEX ☒ VOCs ☐ Alkalinity ☐

TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Ammonia ☐ TKN ☐ NM WQCC Metals ☐
 Total Phosphorus ☐
 MS/MSD BD BD Name/Time TB

WELL DEVELOPMENT AND SAMPLING LOG

Project No: 226013 Project Name: San Juan River Basin Client: MWH
 Location: Canada Mesa Well No: MW-3 Development ☐ Sampling ☒
 Project Manager Delbert Bekis Date 12/24/02 Start Time 1035 Weather cloudy, snow
 Depth to Water 35.15 Depth to Product — Product Thickness — Measuring Point TOC
 Water Column Height 7.240 Well Dia. 2" T.D. 42.390

Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐
 Bottom Valve Bailer ☒ Double Check Valve Bailer ☐ Stainless-Steel Kemmerer ☐
 Criteria: 3 to 5 Casing Volumes of Water Removal ☒ Stabilization of Indicator Parameters ☐ Other ☐

Gal/ft x ft of water	Water Volume In Well		Gal/oz to be removed
	Gallons	Ounces	
<u>7.240 x .16</u>	<u>1.158 x 3</u>		<u>3.475 gallons</u>

Time (military)	pH	SC (umhos/cm)	Temp (°C)	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	Comments/ Flow rate
<u>1100</u>	<u>7.37</u>	<u>5030</u>	<u>15.9</u>				<u>.5</u>	<u>greyish color</u>
	<u>7.58</u>	<u>6580</u>	<u>14.4</u>				<u>1 gal.</u>	<u>slight odor</u>
<u>1125</u>	<u>7.73</u>	<u>6920</u>	<u>12.2</u>				<u>1.5</u>	<u>sample</u>

Final:

Time 1125 pH 7.73 SC 6920 Temp 12.2 Eh-ORP D.O. Turbidity Ferrous Iron Vol Evac. 1.5 gal. Comments/Flow rate

COMMENTS: Bailed dry? couldn't get any more H₂O at this depth. Hit bottom of well.

INSTRUMENTATION:

pH Meter ☒ Temperature Meter ☐
 DO Monitor ☐ Other ☐
 Conductivity Meter ☒

Water Disposal KUTZ PLANT

Sample ID Canada Mesa MW-3 Sample Time 1125 BTEX ☒ VOCs ☐ Alkalinity ☐

TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Ammonia ☐ TKN ☐ NM WQCC Metals ☐

Total Phosphorus ☐ ☐ ☐ ☐ ☐

MS/MSD BD BD Name/Time TB

Product Recovery and Well Observation Data

Project Name: San Juan River Basin
 Project Manager: Delbert Bekis
 Client Company: MWH
 Site Name: Canada Mesa #2

Project No: 220013
 Date: 12/24/02

Well	Time	Depth to Water (ft)	Depth to Product (ft)	Total Well Depth (ft)	Product Thickness (ft)	Volume Removed	Comments
MW-1	1035	36.05		39.350			
MW-2	1135	35.520	—	39.18	—	—	Sample
MW-3	1100	35.150	—	42.390	—	—	Sample

COMMENTS:

MW-1, 1 1/2 gallon of dirty water from skimmer. odorless and water was black, grey, with oily film on top.

Signature: Delbert Bekis

Date: 12/24/02

CHAIN OF CUSTODY RECORD/LAB WORK REQUEST

LABORATORY APCL

Contract El Paso Corp., San Juan River Basin

MWH

Phone (801) 617-3200 FAX (801) 617-4200

MWH Contact Brian Butters

Project San Juan River Basin

Project Number 220013

Date Due 21 Days

Sampler's Name Delbert Belas
(print clearly)

Chain of Custody ID 021224 DB
Page 1 of 1
Air Bill No. 836381676760

Location ID	Sample ID	Depth Interval (ft)	Date Collected	Time Collected	Matrix (a)	Sampling Technique (b)	ANALYSES REQUESTED							
							BTEX SW-846 8021B	Alkalinity SM 2320B	TDS USEPA 160.1	NM WQCC Metals SW-846 6010B & 7470A	Cations SW-846 6010B	Anions USEPA 300.0	Nitrate USEPA 300.0	Nitrite USEPA 300.0
GW- Jeneedah	MW-1		12/23/02	1125	W6	B	✓							
GW- OHIC "C" BOU4 # 3	MW-5		12/23/02	1530	W6	B	✓							
GW- Canada Mesa	MW-2		12/24/02	1205	W6	B	✓							
GW- Canada Mesa	MW-3		12/24/02	1125	W6	B	✓							
TB02101501			10/16/02				✓							

0.2831

(a) Matrix:
SO - Soil
WS - Surface Water
WG - Ground Water

AA - Air
WA - Trip Blank/
Equipment Blanks
WW - Wastewater

(b) Sampling Technique:
Composite=C
Grab=G
Hand Auger=HA
Submersible Pump=SP
Bladder Pump=BP
Bailer=B
Wellhead Faucet=WF
Hydropunch=HP

Location IDs:
Groundwater Sites=GW
Blair=BI
Jaquez=JA
North Flare Pit=NF
South Flare Pit=SF
San Juan River Plant=SJ

Relinquished by/Affiliation	Received by/Affiliation	Date	Time
<u>Delbert Belas / 935E</u>	<u>Paul K</u>	<u>02-11-02</u>	<u>1410</u>
		<u>12/26/02</u>	<u>1300</u>

LABORATORY USE ONLY

SAMPLES WERE:

1 Shipped or hand delivered
Notes:

2 Ambient or Chilled
Notes:

3 Temperature

4 Received Broken/Leaking (Improperly Sealed)
Notes:

5 Properly Preserved
Notes:

6 Received Within Holding Times
Notes:

COC Tape Was:

1 Present on Outer Package
Y N NA

2 Unbroken on Outer Package
Y N NA

3 Present on Sample
Y N NA

4 Unbroken on Sample
Y N NA

Discrepancies Between Sample Labels and COC Record?
Y N

Notes:

1 From Please print and press hard.
Date 12/24/02 Sender's FedEx Account Number 220929116

Sender's Name Delbert Betis Phone (505) 566-9116

Company AESE

Address 906 San Juan Blvd Suite D

City Farmington State N.M. ZIP 87401

2 Your Internal Billing Reference
For 24 characters will appear on invoice.

3 To Recipient's Name Eric Wendland Phone (909) 590-1828

Company APCL

Address 13760 Magnolia Ave

City Chino State CA ZIP 91710

Try online shipping at fedex.com

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Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3333.

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Packages up to 150 lbs.
Delivery commitment may be later in some areas.
FedEx Priority Overnight ☐ FedEx Standard Overnight ☐ FedEx First Overnight ☐ (Next business morning delivery to select locations)

☐ FedEx 2Day ☐ FedEx Express Saver ☐ (Two business days)

4b Express Freight Service

Packages over 150 lbs.
Delivery commitment may be later in some areas.
FedEx 1Day Freight* ☐ FedEx 2Day Freight ☐ FedEx 3Day Freight ☐ (Next business day)

* Call for Confirmation

5 Packaging

☐ FedEx Envelope* ☐ FedEx Pak* ☐ Other ☒ (Includes FedEx Small Pak, FedEx Large Pak and FedEx Sturdy Pak)

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☐ Available ONLY for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
☐ HOLD Weekday at FedEx Location ☐ HOLD Saturday at FedEx Location
☐ NOT Available for FedEx First Overnight
Does this shipment contain dangerous goods? ☐ No ☐ Yes ☐ Yes - In-transportation not required ☐ Yes - In-transportation not required

One box must be checked.
Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

7 Payment

Bill to: ☒ Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.
FedEx Acct. No. 1401-27-695
Exp. Date

Total Packages 1 Total Weight 16 s Total Declared Value \$.00

Your liability is limited to \$100 unless you declare a higher value. See back for details.

8 Release Signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

New Date 10/01/01-Pat #157612-0184-2001 FedEx-PRINTED IN U.S.A. WCS 02

446

Product Recovery and Well Observation Data

Project Name: San Juan River Basin
Project Manager: Ashley Lowe
Client Company: MWH
Site Name: Canada Mesa

Project No: 220013
Date: 09/23/02

Well	Time	Depth to Water (ft)	Depth to Product (ft)	Total Well Depth (ft)	Product Thickness (ft)	Volume Removed	Comments
MW-2	12:55	35.528'	—	39.178	—	—	
MW-3	13:00	35.110	—	42.390	—	—	
MW-1	13:10	34.496	—	39.350	—	~2+bsps	

COMMENTS:

MW-1: No product indicated by oil-water interface probe. After measuring TD, probe contained very black, odorous silt.

Amount recovered from skimmer: 1 1/2 gal silty water (gray) w/a clear sheen floating on top. Only slight amount of actual product was collected by the skimmer.

Skimmer was dirty & scratched at the top. The bottom was covered w/silty black fluid (including stopcock) cleaned w/water & paper towels before resetting.

Measured distance from well pad to fence line as requested by Lynn Benally. See attached map.

Signature: Ashley L Lowe

Date: 09/23/02

amec

Project No.: 1517000121

Task: 3

Date: 6-10-02

Site Name: CANADA MESA #2 (87640)

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Signature: Chris A. M... Date: 6-10-02

Signature: Phis A. M. / Date: 6-10-02

amec

Project No.: 1517000121

Task: 3

Date: 5 21 02

[illegible]

Comments: Muri NO product Recovered NO product detected on probe

Signature: Chris A. May Date: 5-21-02

Date: 5-21-02

amec

Project No.: 1517000121

Task: 3

Date: 4-25-02

Site Name: CANADA MESA #2

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments:

Signature: Eric Chausson

Date: 4-25-02

amec

Project No.: 1517000121

Task: 3

Date: 4-3-02

Date: 4-3-02

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Signature: Chris A. Wiley

Date: 4-3-02

amec

Project No.: 15/7000/21

Task: 3

Date: 3-28-02

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Signature: Chris A. Mandy Date: 3-28-02

Signature: *[Signature]* Date: 3-28-02

Page 1 of 1

Project Manager Lisa Lahn

Project No. 15170001a1

Client Company El Paso Field Services

Site Name AVADA mesa #2 87640

Site Address Rio Arriba CO.

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal

Water Volume Calculation

Initial Depth of Well (feet) 39, 8

Initial Depth to Water (feet)

Height of Water Column in Well (feet) 3.82

Diameter (inches): Well 2" Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	3.82	0.62 x 3	1.86
Gravel Pack			
Drilling Fluids			
Total			1.86

Instruments

Serial No. (If applicable)

☐ pH Meter

Y 5163

☒ DO Monitor
$$\frac{519}{x}$$

Conductivity Meter

YSL 63

☒ Temperature Meter

5357

☐ Other

Water Disposal

KURT SEPARD Bloomfield NM

Water Removal Data

[illegible]

Comments: AFTER Bailing approximately .75 gal. Bailed well Dry Let Beaver Sampled for BTEX D35

Signature(s) Wang, A-M
Date 5/4/02
Reviewer Wang
Date 6/20

Reviewer *[Signature]* Date *[Signature]*

62

Page 1 of 1

Project No. 57260012

Site Name CANADA mesa #2 (77640)

Site Address R. 10 Arriba Co.

Serial No. (If applicable)

21

1578

☐ Other

Water Disposal
E-172 S-200-18 Brown Gold 11/17

Water Removal Data

[illegible]

Comments: After Bailing Approximately 1.5 gal Bailed well Dry Lot Recover Sampled for

BTEX 11/8

Signature(s)

3/202

Reviewers

Date _____

10

amec

Project No.: 1517000121

Task: 2

Date: 3 - 19 - 02

[illegible]

Comments: Skimmer screen floating upper 3/4 made NO adjustments NO product recovered, NO product detected using water/oil probe

Date: 3-19-02

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY



Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 3-20-02 PAGE: 1 of 1

PROJECT MANAGER: Lisa Winn

COMPANY:

ADDRESS:

PHONE:

FAX:

BILL TO:

COMPANY:

ADDRESS:

AMEC

2060 AFTON place

FARMINGTON N.M. 87401

(505) 323-7928

(505) 326-5721

SCOTT POPE

El Paso Field Services

614 Reilly AVE

FARMINGTON N.M.

CAN-0003-KW 2

3-14-01/055

CAN-0203-MW 3

3-14-01/118

HaO

Petroleum Hydrocarbons (418.1) TRPH
(MOD.8015) Diesel/Direct Inject

(M8015) Gas/Purge & Trap

8021 (BTEX)/8015 (Gasoline) MTBE

8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE
8021 (TCL)

8021 (EDX)

8021 (HALO)

8021 (CUST)

504.1 EDB ☐ / DBCP ☐

8260 (TCL) Volatile Organics

8260 (Full) Volatile Organics

8260 (CUST) Volatile Organics

8260 (Landfill) Volatile Organics

Pesticides /PCB (608/8081/8082)

Herbicides (615/8151)

Base/Neutral/Acid Compounds GC/MS (625/8270)

Polynuclear Aromatics (610/8310/8270-SIMS)

General Chemistry:

Priority Pollutant Metals (13)

Target Analyte List Metals (23)

RCRA Metals (8)

RCRA Metals by TCLP (Method 1311)

Metals:

NUMBER OF CONTAINERS

PROJECT INFORMATION

PROJ. NO. 1517000121

PROJ. NAME: OFS GR project

P.O. NO.:

SHIPPED VIA: Grethbund

SAMPLE RECEIPT

NO. CONTAINERS:

CUSTODY SEALS:

RECEIVED IN TAG:

BLUES:

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE: ☐

CANADA MESA #2
meter # (97640)

INITIALS/REMARKS

Signature: Date: Time: 1600

Printed Name: Chris A. Macz Date: 3-20-02

Company: AMEC
See reverse side (for signature)

Signature: Date: Time:

Printed Name: Date:

Company:

INITIALS/REMARKS

Signature: Date: Time:

Printed Name: Date:

Company:

Signature: Date: Time:

Printed Name: Date:

Company:

amec

Project No.: 15/2000/21

Task: 3

Date: 3-12-02

Date: 3-12-02

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Signature: Chris A. May Date: 3-12-02

Signature: Kim A. Mann Date: 3-12-02

amec

Project No.: 15/7000/21

Task: 3

Date: 3 7 02

[illegible]

Comments: Skimmer AT Right Level. NO product Recovered.

Date: 3-7-02

amec

Project No.: 15/7000/21

Task: 3

Date: 2-26-02

Site Name: CANADA MESA #2 (87640)

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments: No product Recovered NO product detected on probe

Date: 2 26 02

amec

Project Name: EPFS GW PROJECT

Project Mngr: LISA WINN

Client Co.: EL PASO FIELD SERVICES

Site Name: CANADA MESA #2 (87640)

Date: 02-20-02

Date: 02-20-02

Date: 02-14-02

amec

Project Name: EPFS GIW PROJECT

Project Mngr: USA WINN

Client Co.: EL PASO FIELD SERVICES

Site Name: CANADA MESA #2 (87640)

Task: 3

Date: 02-07-02

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments:

Signature: Jace M. Cuntar

Date: 02-07-02

amec

Project Name: EPFS GW PROJECT

Project Mngr: LISA WINN

Client Co.: EL PASO FIELD SERVICES

Site Name: CANADA MESA #2 (87640)

Project No.: 1517000121

Task: 3

Date: 01-30-02

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments:

Signature:

Jacey M. Curtan

Date:

01-30-02

amec

Project Name: EPFS GW PROJECT

Project Mngr: LISA WINN

Client Co.: EL PASO FIELD SERVICES

Site Name: CANADA MESA #2 (87640)

Project No.: 1517000121

Task: 3

Date: 01-23-02

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments: SMALL AMT. OF PRODUCT RECOVERED.

Signature: Jacey M. Curtain

Date: 01-23-02

WELL OBSERVATION DATA

amec

Project Name: EPFS GW project

Project No.: 1517 000121

Project Mngr: LISA WINN

Task: 3

Client Co.: El Paso Field Services

Date: 1 7 02

Site Name: CANADA MESA #2 (87640)

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments: Adjusted screen depth. In well

Signature: Chris T. May

Date: 1-7-02

amec

Project No.: K/2006/21

Task: 3

Date: 1-2-02

[illegible]

Comments: Skimmer empty NO recovery in MW / NO product
Detected with water / oil probe

Signature: Chris S. May Date: 1-2-02