

3R - 212

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



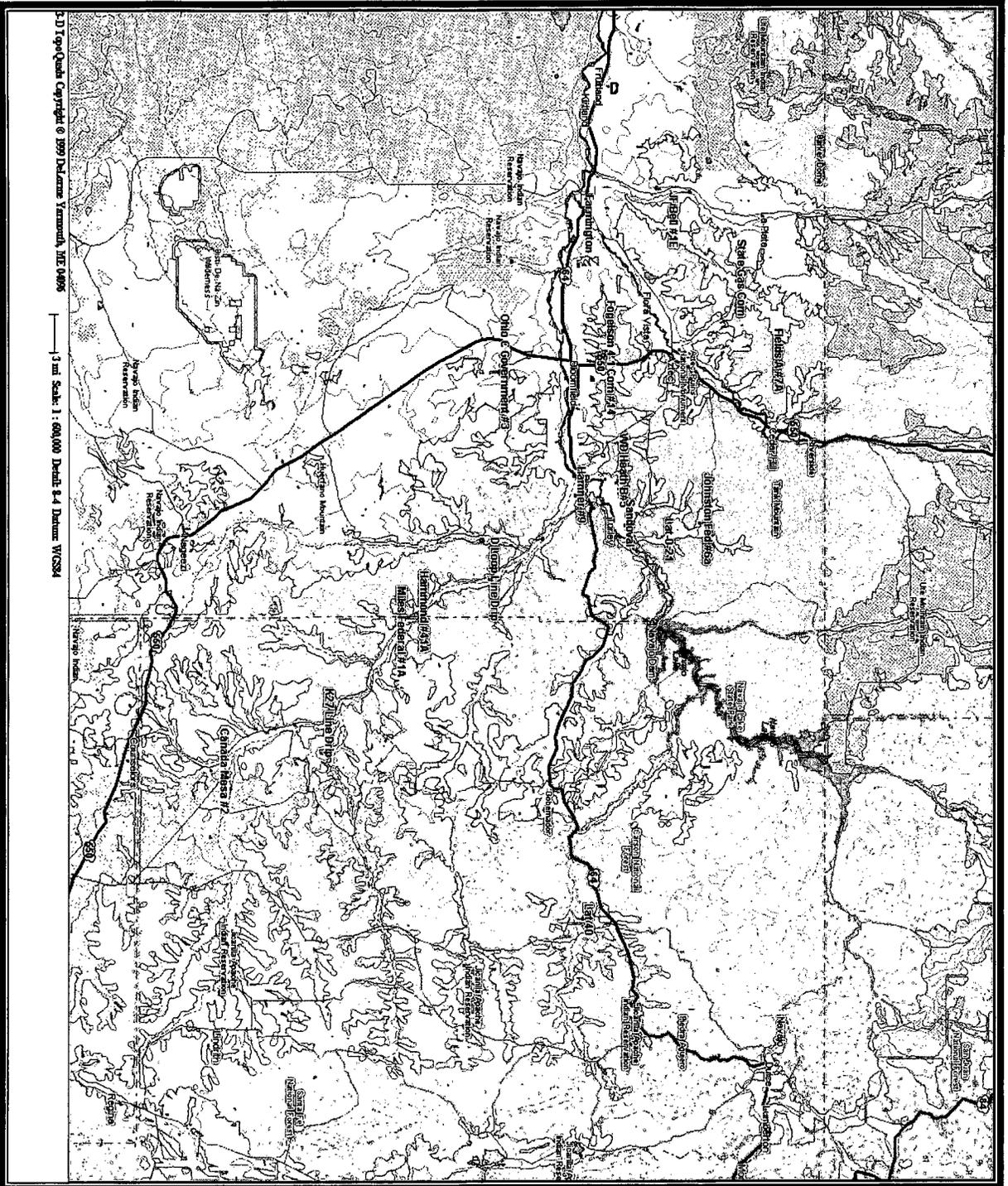
MWH

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



U.S. Geological Survey Copyright © 1999 Database Name: 11E 0406
1 mile Scale: 1:625,000 Date: 8-4-1999 WGS84

**EPFS GROUNDWATER SITES
2002 ANNUAL GROUNDWATER REPORT**

**LAT L-40
Meter Code: LD174**

SITE DETAILS

LEGAL DESCRIPTION: Twn: 28N Rng: 4W Sec: 13 Unit: H
NMOCD Haz Ranking: 20 **Land Type:** Federal **Operator:** EPFS

PREVIOUS ACTIVITIES

Site Assessment: 2/95 **Excavation:** 3/95 **Soil Boring:** 9/95
Monitor Well: 9/95 **Geoprobe:** NA **Additional MWs:** *
Downgradient MWs: * **Replace MW:** NA **Quarterly Initiated:** NA
ORC Nutrient Injection: NA **Re-Excavation:** NA **PSH Removal Initiated:** 1/98
Annual Initiated: NA **Quarterly Resumed:** NA

* An attempt was made to install additional monitoring wells at this site during July 2000. All efforts were met with refusal.

SUMMARY OF 2002 ACTIVITIES

MW-1: Quarterly free-product recovery and water level monitoring was performed.

Site-Wide Activities: The passive skimmer in MW-1 was inspected for proper operating conditions.

SUMMARY TABLES AND GRAPHS

- Historical analytical results and groundwater elevation data are presented graphically in Figure 2.
- Free-product recovery data is summarized in Table 1 and presented graphically in Figure 3.
- Field documentation is presented in Attachment 1.

SITE MAP

A site map is attached as Figure 1

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.

**EPFS GROUNDWATER SITES
2002 ANNUAL GROUNDWATER REPORT**

**LAT L-40
Meter Code: LD174**

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this site, however, the attached site map presents the potentiometric surface data collected during 2002.

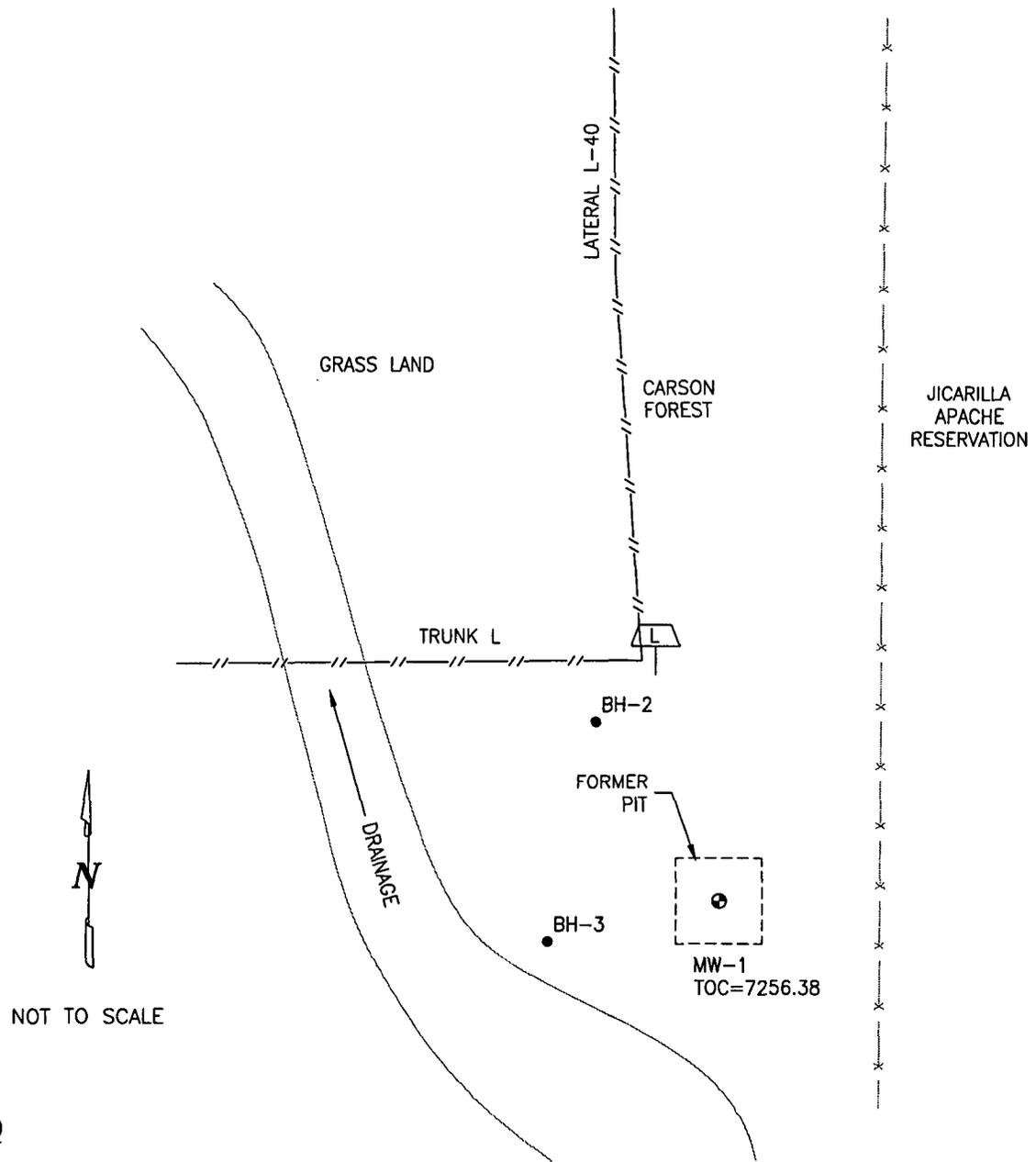
CONCLUSIONS

- Free-product recovery efforts at MW-1 resulted in removal of approximately 2.16 gallons of free-phase hydrocarbons during 2002 bringing the cumulative total recovered to date to 24.14 gallons since 2000.
- The free-product recovery data indicate a declining free-product thickness during 2002 that is most likely associated with increased groundwater levels.

RECOMMENDATIONS

- EPFS will continue free-product recovery and water level monitoring efforts on a quarterly basis.
- EPFS intends to redevelop MW-1 in an attempt to enhance free-product recovery.
- 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.

MW-1	03/12/02	04/03/02	05/20/02	06/10/02	07/19/02	10/11/02
GWEL	7217.62	7217.72	7217.82	7217.82	7217.74	7217.51



NOT TO SCALE

LEGEND

- ⊙ MW-1 Approximate Monitoring Well Location and Number
- x — x — Fence Line
- // — // — Pipe Line
- TOC Top of Casing
- BH-2 Attempted Monitoring Well Installation Location

latl40ld_02.dwg

LATERAL L-40 LINE DRIP
LD 174

MARCH 2002 - OCTOBER 2002

PROJECT NO.:

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1

TABLE 1

SUMMARY OF FREE-PRODUCT RECOVERY
 LAT L-40 (METER #LD174)
 (Page 1 of 1)

MW Identification	Date	Depth to Product (feet bgs)	Depth to Water (feet bgs)	Product Thickness (feet)	Volume Removed (gallons)	Cumulative Removed (gallons)
1	12-Mar-2002	38.42	38.76	0.34	0.75	22.73
1	03-Apr-2002	38.39	38.66	0.27	0.25	22.98
1	20-May-2002	38.46	38.56	0.10	0.50	23.48
1	10-Jun-2002	38.51	38.56	0.05	0.25	23.73
1	19-Jul-2002	NA	38.64	0.00	0.25	23.98
1	11-Oct-2002	38.84	38.87	0.03	0.16	24.14

Figure 2
 Historical BTEX Concentration and Groundwater Elevation vs. Time
 Lat L-40 Line Drip (Meter #LD174)
 MW-1

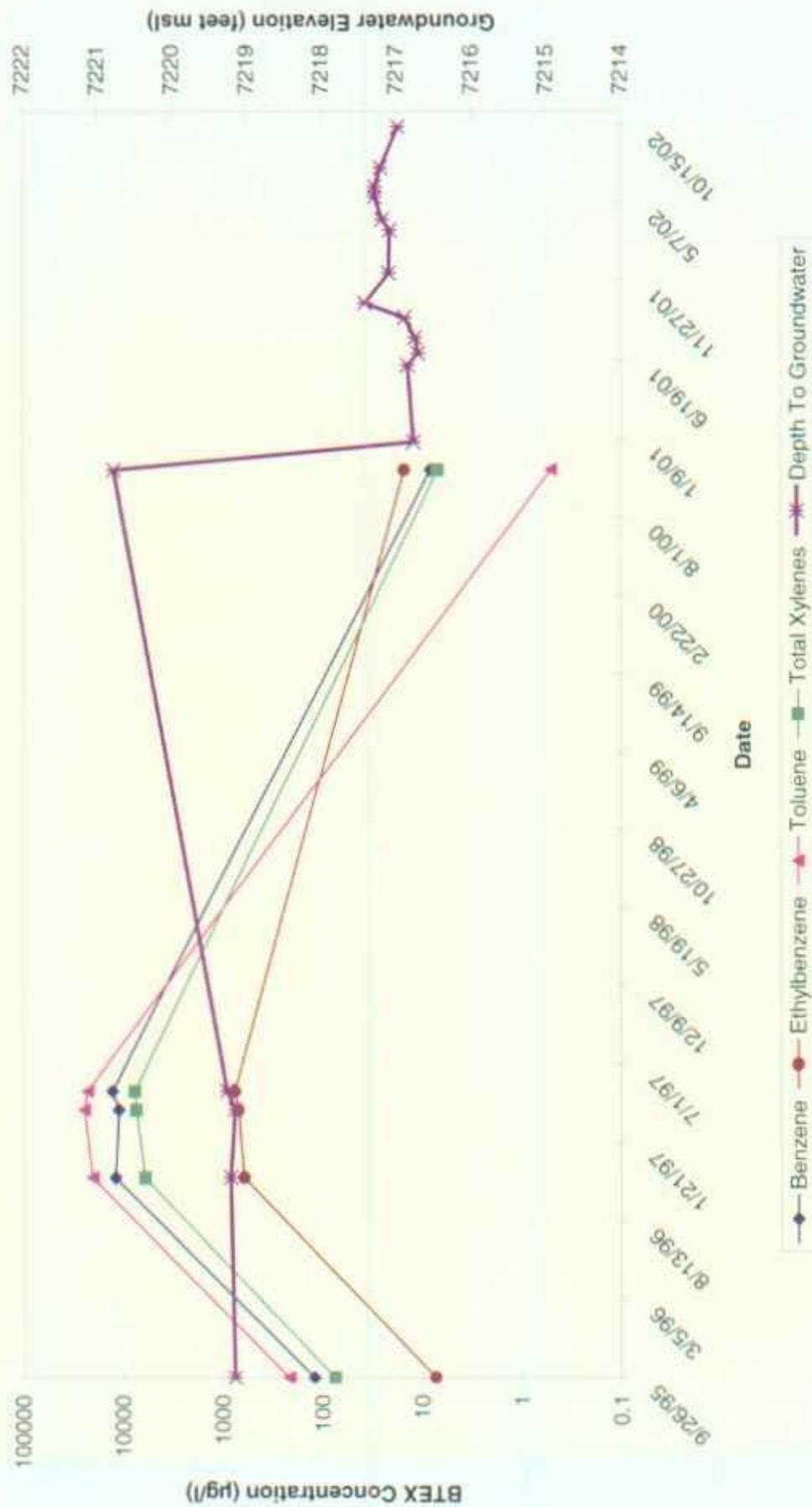
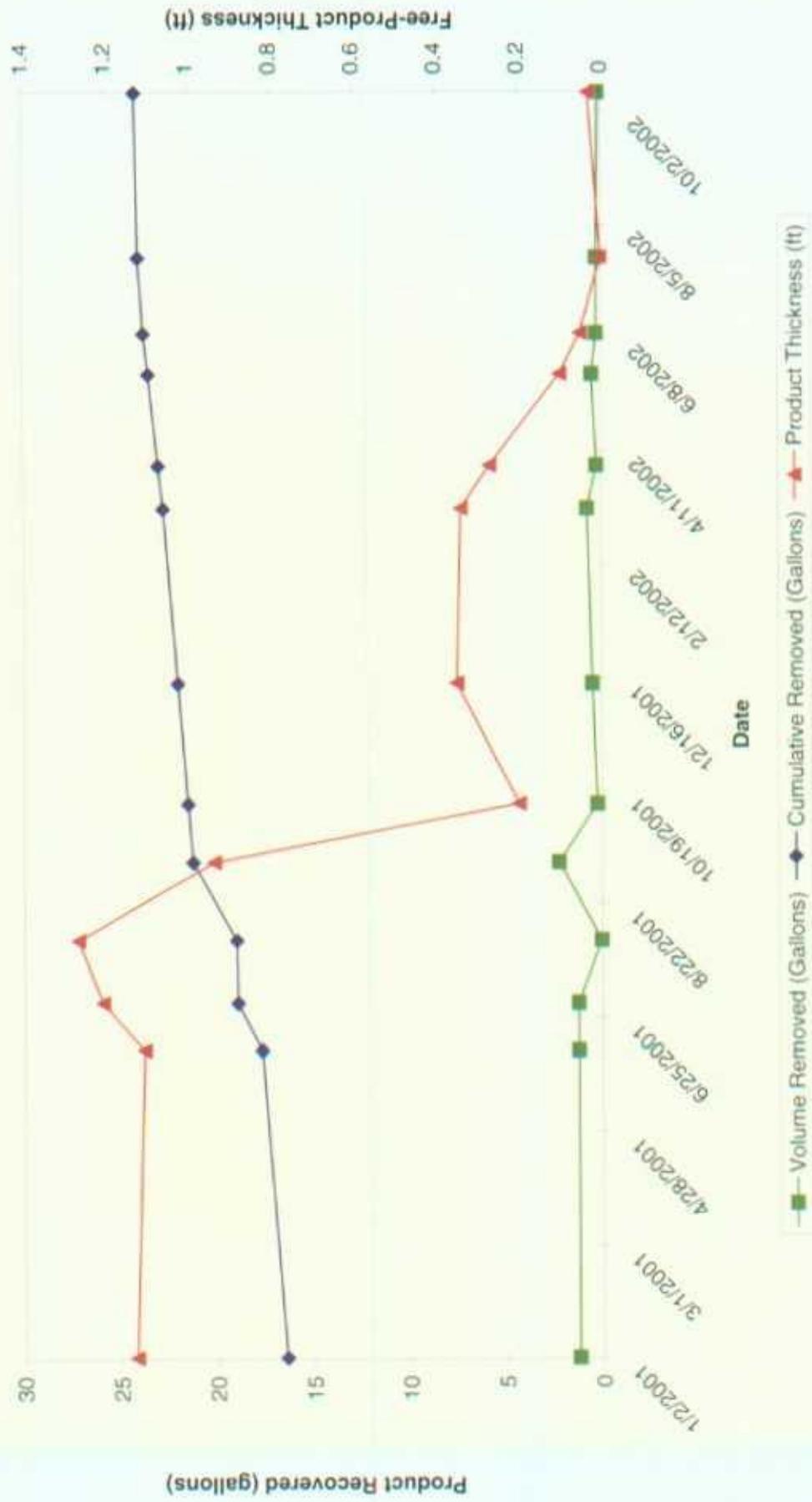


Figure 3
 Free-Product Recovery vs. Time
 Lat L-40 Line Drip (Meter #LD174)
 MW-1



ATTACHMENT 1
LABORATORY REPORTS

AESE

PRODUCT RECOVERY

906 San Juan Blvd. Ste. D
Farmington, NM 87401
505.566.9116(9120fax)

Project Name San Juan River Basin

Project No. _____

Project Manager Ashley Lowe

Date 07/19/02

Client Company Montgomery Watson Harza

Site Name Lat 40

Well	Meter/Line No.	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1		11:42	none	38.640	—	~ 1/4 gal

TD = 52.351

Comments No product indicated by oil-water interface probe

Product in skimmer is bright yellow-gold in color, but clear when TD was measured; some sand returned on probe tip

Signature Ashley Lowe

Date 07/19/02

