

3R - 238

REPORTS

DATE:

1999



Certified Mail: #Z 213 707 666 (Box 1 of 2)
#Z 213 707 664 (Box 2 of 2)

March 24, 2000

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RECEIVED

MAR 23 2000

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 1999 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 32 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports, EPFS hereby requests closure of 4 of these locations. The 4 sites EPFS is requesting closure on are presented in one separate binder entitled "San Juan Basin Pit Closures, El Paso Field Services, Pit Closure Reports".

The Jaquez Com. C #1 and Jaquez Com. E #1 site is included in a separate report which is entitled "Jaquez Com. C #1 and Jaquez Com. E #1 Annual Report for Soil and Groundwater Remediation".

EPFS has also included for your information five Navajo sites in a separate binder and a separate report for the Bisti Flare Pit #1.

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

Sincerely,

A handwritten signature in black ink that reads 'Scott T. Pope' with a stylized flourish at the end.

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # Z 213 707 667**
Mr. Bill Liesse, BLM - w / enclosures; **Certified Mail # Z 213 707 668**
Mr. John Jaquez, - w / Jaquez enclosures; **Certified Mail # Z 213 707 669**
Ms. Charmaine Tso, Navajo EPA - w / enclosures; **Certified Mail # Z 213 707 670**

bc: J. A. Lambdin w / enclosures

Philip Services Corp. – Cecil Irby, w / o enclosures

B. B. McDaniel / 24321 – NMOCD Regulatory w / o

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

El Paso Field Services Pit Project Groundwater Report
Annual Report

March 2000

RECEIVED

MAR 29 2000

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 62800158



EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT

**STANDARD OIL COM #1
Meter/Line ID - 70445**

SITE DETAILS

Legals - Twn: 29N Rng: 9W Sec: 36 Unit: N
NMOCD Hazard Ranking: 30 Land Type: STATE
Operator: BURLINGTON RESOURCES

PREVIOUS ACTIVITIES

Site Assessment: May-94 Excavation: May-94 (60 cy) Soil Boring: Sep-95
Monitor Well: Sep-95 Quarterly Sampling Initiated: Nov-96

1999 ACTIVITIES

Quarterly Groundwater Monitoring - Quarterly groundwater monitoring continued through 1999.

Provided Operator with Site Data - EPFS has provided operator with all pertinent site data generated to date.

SUMMARY TABLES

Groundwater analytical data are presented in Table 1. Copies of the laboratory data sheets and associated quality assurance/quality control data are presented in Attachment 1.

SITE MAP

A site map is presented as Figure 1.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 1999.

DISPOSITION OF GENERATED WASTES

There were no generated wastes at this site in 1999.

ISOCONCENTRATION MAPS

None generated for this site.

CONCLUSIONS

Analytical results of groundwater samples from MW-1 show levels of benzene and total xylenes above New Mexico Groundwater Standards.

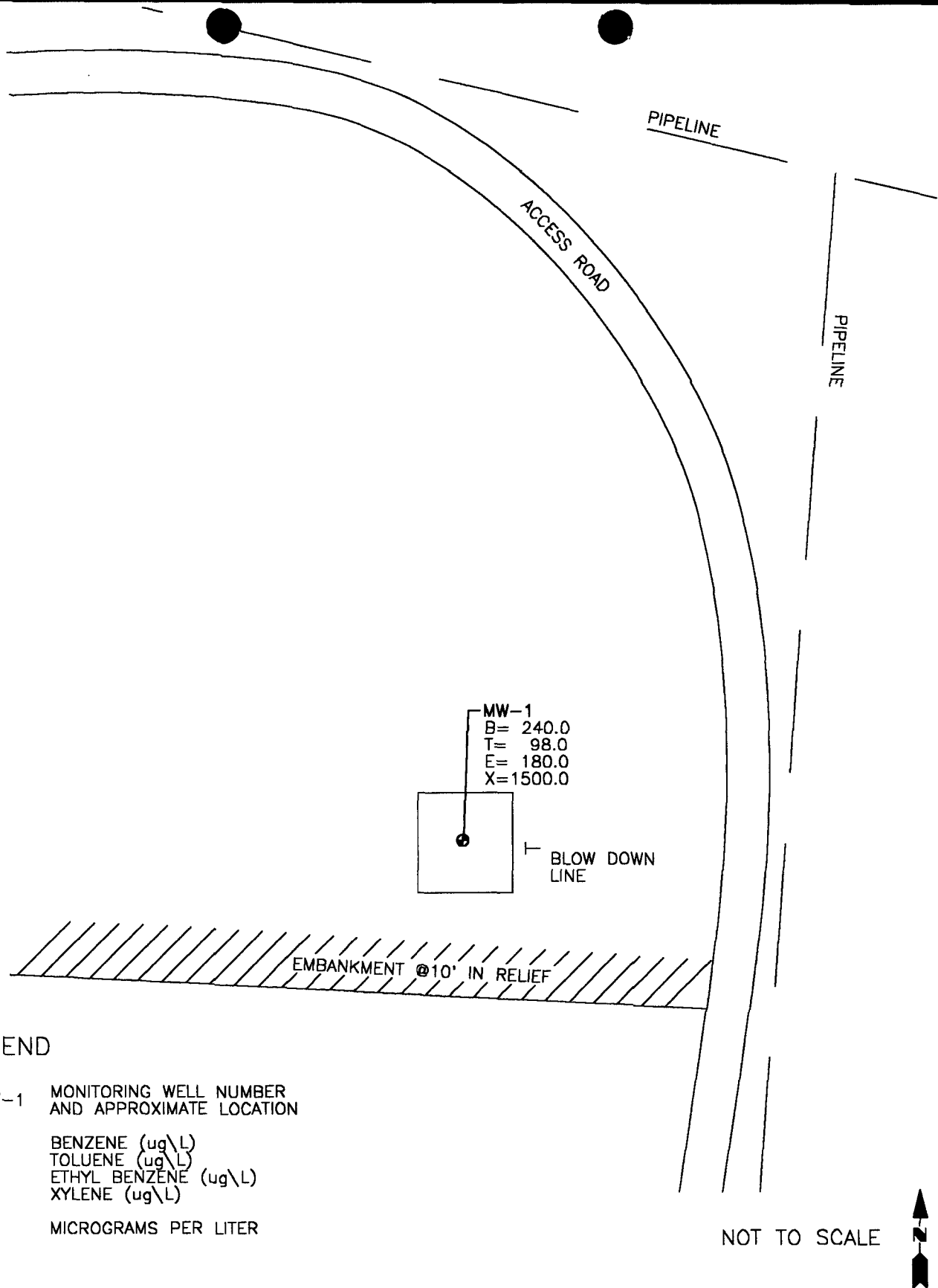
Pertinent data from past groundwater reports include the following: Based on groundwater levels collected from temporary well point data, the groundwater flow trends to the northwest on this site.

Groundwater samples collected from MW-1 have been in excess of standards for benzene and total xylenes since quarterly sampling was initiated. One sample collected from PZ-5, located up-gradient of MW-1, was in excess of standards for benzene at 10,400 ppb and total xylenes at 5,500 ppb, indicating a second source.

EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT

RECOMMENDATIONS

- EPFS proposes to conduct semi-annual monitoring at this site.
- EPFS will continue to work with the operator at this site.



CDL 17520BD-003



TITLE:

STANDARD OIL COM #1

METER 70445

NOVEMBER 9, 1999

DWN:	DES.:
CJG	CI
CHKD:	APPD:
CI	
DATE:	REV.:
02/18/00	0

PROJECT NO.:	17520
EPFS GW PITS	
FIGURE 1	

EPFS Groundwater Pits
1999 Groundwater Report

TABLE 1

Sample #	Meter/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
990023	70445	Standard Oil Com #1	02/02/99	1	Sample 4 - 10th Quarter	= 157	= 75.8	= 204	= 2100	= 2537.0
990245	70445	Standard Oil Com #1	05/19/99	1	Sample 4 - 11th Quarter	= 178	= 55.2	= 184	= 1730	= 2147.0
990338	70445	Standard Oil Com #1	08/04/99	1	Sample 4 - 12th Quarter	= 252	= 136	= 203	= 1890	= 2481.0
990441	70445	Standard Oil Com #1	11/09/99	1	Sample 4 - 13th Quarter	= 240	= 98	= 180	= 1500	= 2018.0

ATTACHMENT 1
1999 GROUNDWATER ANALYTICAL

A 2094



Natural Gas Company

CHAIN OF CUSTODY RECORD

SAMPLE 4 10TH QTR

[illegible]



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	990023
MTR CODE SITE NAME:	70445	Standard Oil Com #1
SAMPLE DATE TIME (Hrs):	2/2/99	1355
PROJECT:	Sample 4 10th Quarter	
ATE OF BTEX EXT. ANAL.:	NA	2/3/1999 and 2/4/1999
TYPE DESCRIPTION:	MW-1	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	157	PPB	2	D		
TOLUENE	75.8	PPB	2	D		
ETHYL BENZENE	204	PPB	2	D		
TOTAL XYLENES	2100	PPB	10	D		
TOTAL BTEX	2537	PPB				

BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 94.8 for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative:

Approved By:

John Salas

Date:

2-15-99

990023BTEXMonitorWel,2/16/99



EL PASO FIELD SERVICES

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

Samples: 990021 to 990025

QA/QC for 02/03/99 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE YES NO	
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	46.4	92.7	75 - 125 %	X
Toluene	Standard	50.0	46.9	93.8	75 - 125 %	X
Ethylbenzene	Standard	50.0	47.7	95.4	75 - 125 %	X
m & p - Xylene	Standard	100	93.9	93.9	75 - 125 %	X
o - Xylene	Standard	50.0	48.1	96.2	75 - 125 %	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE YES NO	
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	29.8	119	39 - 150	X
Toluene	Standard	25.0	29.8	119	46 - 148	X
Ethylbenzene	Standard	25.0	29.6	118	32 - 160	X
m & p - Xylene	Standard	50.0	61.3	123	Not Given	X
o - Xylene	Standard	25.0	31.2	125	Not Given	X

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE YES NO	
990024					RANGE	
Benzene	Matrix Duplicate	7.9	8.4	5.96	+/- 20 %	X
Toluene	Matrix Duplicate	21.0	22.3	6.07	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	389	413	5.91	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	3422	3519	2.81	+/- 20 %	X
o - Xylene	Matrix Duplicate	1175	1213	3.19	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE YES NO	
2nd Analysis 990024					RANGE	
Benzene	25	7.9	32.8	100	75 - 125 %	X
Toluene	25	21.0	46.8	104	75 - 125 %	X
Ethylbenzene	25	389	437	192	75 - 125 %	X
m & p - Xylene	50	3422	3530	216	75 - 125 %	X
o - Xylene	25	1175	1235	241	75 - 125 %	X

Narrative: Acceptable. Sample result for EB, MPX and OX exceeded spike by > 5X.

AUTO BLANK	SOURCE	PPB (1 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (one analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	3.2	ACCEPTABLE

Narrative: Acceptable.

TRIP BLANK 020299	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: JAL

Approved By: John Lander

Date: 2-4-99



EL PASO FIELD SERVICES

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

Samples: 990021 to 990027

QA/QC for 02/04/99 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589					RANGE	
50 PPB						
Benzene	Standard	50.0	54.1	108.2	75 - 125 %	X
Toluene	Standard	50.0	55.0	110.0	75 - 125 %	X
Ethylbenzene	Standard	50.0	56.3	112.5	75 - 125 %	X
m & p - Xylene	Standard	100	112.4	112.4	75 - 125 %	X
o - Xylene	Standard	50.0	56.3	112.6	75 - 125 %	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
LCS LA-45476					YES	NO
25 PPB					RANGE	
Benzene	Standard	25.0	30.1	120	39 - 150	X
Toluene	Standard	25.0	30.1	120	46 - 148	X
Ethylbenzene	Standard	25.0	29.7	119	32 - 160	X
m & p - Xylene	Standard	50.0	59.8	120	Not Given	X
o - Xylene	Standard	25.0	30.9	124	Not Given	X

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
990021					RANGE	
Benzene	Matrix Duplicate	48.0	50.2	4.56	+/- 20 %	X
Toluene	Matrix Duplicate	12.0	13.1	8.72	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	27.1	18.0	40.21	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	122	125	2.24	+/- 20 %	X
o - Xylene	Matrix Duplicate	9.7	17.1	55.40	+/- 20 %	X

Narrative: Acceptable. Matrix interference observed on EB and MPX.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 990021					RANGE	
Benzene	25	48.0	76.4	114	75 - 125 %	X
Toluene	25	12.0	36.4	97	75 - 125 %	X
Ethylbenzene	25	27.1	50.1	92	75 - 125 %	X
m & p - Xylene	50	122	169	94	75 - 125 %	X
o - Xylene	25	9.7	34.6	99	75 - 125 %	X

Narrative: Acceptable.

AUTO BLANK	SOURCE	PPB (1 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (one analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (none analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	NA	ACCEPTABLE
Toluene	Vial + Boiled Water	NA	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	NA	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	NA	ACCEPTABLE

Narrative: Acceptable.

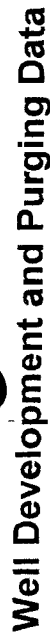
TRIP BLANK 020499	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: JAL

Approved By: John Larchi

Date: 2-4-99



Development ☐
Purging ☒

Well Number MW-1
Meter Code 70445

☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

☐	Pump	☒	Bailer
☐	Centrifugal	☐	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer
☐	Other		

Initial Depth of Well (feet) 32.93
Initial Depth to Water (feet) 20.03
Height of Water Column in Well (feet) 12.91

Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		8.5	25.6
Gravel Pack			
Drilling Fluids			
Total			

☒	pH Meter
☐	DO Monitor
☒	Conductivity Meter
☒	Temperature Meter
☒	Other <u>DO</u>

Water Disposal

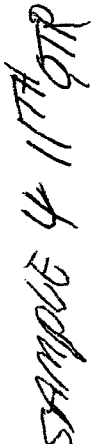
KUTZ SEPARATOR

[illegible]

Developer's Signature *Dennis Bird*

Date 2-2-99

John F. Zola Date 2-4-99

Page 7 of 7

White-Testing Laboratory
Yellow-EPNG Lab
Pink-Field Sampler
FM-08-0565 (9-91)



Well Development and Purging Data

Site Name STANDARD OIL CO. #1

Well Number MW-1
Meter Code 70445

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Methods of Development

- Pump
☐ Centrifugal ☒ Baller
☐ Submersible ☐ Bottom Valve
☐ Peristaltic ☐ Double Check Valve
☐ Stainless-steel Kemmerer
☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 32.93
Initial Depth to Water (feet) 19.86
Height of Water Column in Well (feet) 13.07
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>8.6</u>	<u>25.9</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMISTS KIT

Water Disposal

KUT2 SEPARATOR

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		pH	Conductivity $\mu\text{mho/cm}$	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative				
5-19-99	1227											<u>4400</u>		
5-19-99	1235						<u>5.0</u>	<u>5.0</u>			<u>7.15</u>	<u>4560</u>		
5-19-99	1243						<u>5.0</u>	<u>10.0</u>			<u>7.16</u>	<u>4460</u>		
5-19-99	1250						<u>5.0</u>	<u>15.0</u>			<u>7.25</u>	<u>4590</u>		
5-19-99	1257						<u>5.0</u>	<u>20.0</u>			<u>7.32</u>	<u>4370</u>		
5-19-99	1305						<u>5.0</u>	<u>25.0</u>			<u>7.34</u>	<u>4470</u>	<u>0.5</u>	
											<u>7.43</u>			

Comments THE WATER HAD A STRONG HYDROGEN SULFIDE SMELL.

Developer's Signature Kennie Bird

Date 5-19-99

Reviewer J. L. Loh

Date 5/24/99



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NA	990245
MTR CODE SITE NAME:	70445	Standard Oil Com #1
SAMPLE DATE TIME (Hrs):	5/19/99	1318
PROJECT:	Sample 4 - 11th Quarter	
DATE OF BTEX EXT. ANAL:	NA	5/21/99
TYPE DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	178	PPB				
TOLUENE	55.2	PPB				
ETHYL BENZENE	184	PPB				
TOTAL XYLENES	1730	PPB	10	D		
TOTAL BTEX	2147	PPB				

—BTEX is by EPA Method 8021 —

The Surrogate Recovery was at 101.1 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative:

Approved By: _____

Date: _____



QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 990245 to 990247

QA/QC for 05/21/99 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	47.7	95.5	75 - 125 %	X
Toluene	Standard	50.0	47.4	94.7	75 - 125 %	X
Ethylbenzene	Standard	50.0	47.7	95.3	75 - 125 %	X
m & p - Xylene	Standard	100	97.2	97.2	75 - 125 %	X
o - Xylene	Standard	50.0	48.3	96.6	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	23.5	94.0	39 - 150	X
Toluene	Standard	25.0	23.4	93.7	46 - 148	X
Ethylbenzene	Standard	25.0	23.7	95.0	32 - 160	X
m & p - Xylene	Standard	50.0	47.9	95.9	Not Given	X
o - Xylene	Standard	25.0	24.0	96.1	Not Given	X

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
990246					RANGE	
Benzene	Matrix Duplicate	136.7	141.5	3.47	+/- 20 %	X
Toluene	Matrix Duplicate	89.42	92.67	3.57	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	67.25	69.68	3.54	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	122.11	125.06	2.38	+/- 20 %	X
o - Xylene	Matrix Duplicate	18.46	18.57	0.60	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 990246					RANGE	
Benzene	50	68.4	110.5	84	75 - 125 %	X
Toluene	50	44.7	87.9	86	75 - 125 %	X
Ethylbenzene	50	33.6	82.1	97	75 - 125 %	X
m & p - Xylene	100	61.1	160.6	100	75 - 125 %	X
o - Xylene	50	9.23	54.1	90	75 - 125 %	X

Narrative: Acceptable.

LABORATORY AND FIELD BLANKS:

AUTO BLANK	SOURCE	PPB (one analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (one analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLK 05/19/99	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: J.F.Approved By: John L. LaddDate: 5/24/99



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	990338
MTR CODE SITE NAME:	70445	Standard Oil Com #1
SAMPLE DATE TIME (Hrs):	08/04/1999	1306
PROJECT:	Sample 4 12th Quarter	
DATE OF BTEX EXT. ANAL.:	NA	08/10/1999
TYPE DESCRIPTION:	MW-1	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	252	PPB	5	D		
TOLUENE	136	PPB	5	D		
ETHYL BENZENE	203	PPB	5	D		
TOTAL XYLENES	1890	PPB	5	D		
TOTAL BTEX	2481	PPB				

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 107.1 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative:

Approved By:

John Luvich

Date:

9-1-99



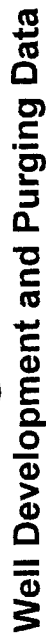
CHAIN OF CUSTODY RECORD

Page _____ of _____

CHAIN OF CUSTODY RECORD

White-Testing Laboratory
Yellow-EPNG Lab
Pink-Field Sampler
FM-08-0565 (9-91)

White-Testing Laboratory
Yellow-EPNG Lab
Pink-Field Sampler
FM-08-0565 (9-91)



☐	Development
☒	Purging

Well Number 9W-1

Meter Code 70445

☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

☐	Pump	Bailer
☐	Centrifugal	Bottom Valve ☒
☐	Submersible	Double Check Valve ☐
☐	Peristaltic	Stainless-steel Kemmerer ☐

Initial Depth of Well (feet) 32.93
Initial Depth to Water (feet) 19.98
Height of Water Column in Well (feet) 12.95

Diameter (inches): Well

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		8.6	25.7
Gravel Pack			
Drilling Fluids			
Total			

☒	pH Meter
☐	DO Monitor
☒	Conductivity Meter
☒	Temperature Meter
☒	Other <u>D.O. CR</u>

Water Disposal

KUTZ SEPARATOR

[illegible]

Comments THE WATER HAD A STRONG HYDROGEN SULFIDE SMELL.

Developer's Signature
Dennis Bied

Date 8-4-99 Reviewer _____

John Jacob

Date 8/18/99

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

Samples: 990334 to 990340 and 990349 to 990354

QA/QC for 08/10/99 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-67475 50 PPB					RANGE	
Benzene	Standard	50.0	46.5	93.0	75 - 125 %	X
Toluene	Standard	50.0	47.5	94.9	75 - 125 %	X
Ethylbenzene	Standard	50.0	47.1	94.1	75 - 125 %	X
m & p - Xylene	Standard	100	95.8	95.8	75 - 125 %	X
o - Xylene	Standard	50.0	47.8	95.6	75 - 125 %	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
LCS LA-53560 25 PPB					RANGE	
Benzene	Standard	25.0	21.3	85	39 - 150	X
Toluene	Standard	25.0	22.5	90	46 - 148	X
Ethylbenzene	Standard	25.0	23.0	92	32 - 160	X
m & p - Xylene	Standard	50.0	46.3	93	Not Given	X
o - Xylene	Standard	25.0	23.0	92	Not Given	X

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
990349					RANGE	
Benzene	Matrix Duplicate	<1.0	<2.5	NA	+/- 20 %	X
Toluene	Matrix Duplicate	2.66	<2.5	NA	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	72.0	63.5	12.45	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	249	224.4	10.37	+/- 20 %	X
o - Xylene	Matrix Duplicate	55.0	49.3	10.84	+/- 20 %	X

Narrative: Dilution Error on Benzene and Toluene. Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 990349					RANGE	
Benzene	25	<1.0	20.4	82	75 - 125 %	X
Toluene	25	2.66	23.4	83	75 - 125 %	X
Ethylbenzene	25	72.0	95.6	94	75 - 125 %	X
m & p - Xylene	50	249	291.2	85	75 - 125 %	X
o - Xylene	25	55.0	76.0	84	75 - 125 %	X

Narrative: Acceptable.

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					RANGE	YES NO
990334						
Benzene	Matrix Duplicate	<1.0	<1.0	NA	+/- 20 %	X
Toluene	Matrix Duplicate	<1.0	<1.0	NA	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	<2.0	<2.0	0.00	+/- 20 %	X
o - Xylene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					RANGE	YES NO
2nd Analysis 990334						
Benzene	25	<1.0	22.1	88	75 - 125 %	X
Toluene	25	<1.0	22.4	89	75 - 125 %	X
Ethylbenzene	25	<1.0	21.7	87	75 - 125 %	X
m & p - Xylene	50	<2.0	45.1	90	75 - 125 %	X
o - Xylene	25	<1.0	22.5	90	75 - 125 %	X

Narrative: Acceptable.

AUTO BLANK	SOURCE	PPB (1 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (one analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLANK(s) 8/3, 8/4, 8/5	SOURCE	PPB (three analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: J.L.

Approved By: John Lambert

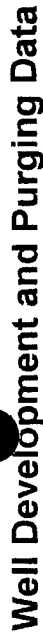
Date: 8/24/99

**MC# LD169, D Loop Line Drip,
MW-1 : Sample 4 - 13th Quarter**

**MC#70445, Standard Oil Com
#1, MW-1 : Sample 4 - 13th Qtr.**

**● MC#97213, Hamner #9, MW-1 :
Sample 4 - 13th Quarter**

**MC# LD146, Lat. 3B-39 Line
Drip, MW-1 : Sample 4 - 11th
Quarter**



Well Development and Purging Data

Well Number MW-1
Meter Code LD169

☒	3 to 5 Casing Volumes of Water Removal
☐	Stabilization of Indicator Parameters
☐	Other

☐	Pump	☐	Bailer
☐	Centrifugal	☒	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer

Initial Depth of Well (feet) 43.48
Initial Depth to Water (feet) 34.66
Height of Water Column in Well (feet) 8.82

Diameter (inches): Well 4 Gravel Pack

☒	pH Meter
☐	DO Monitor
☒	Conductivity Meter
☒	Temperature Meter
☒	Other <u>20.54</u>

KUTZ SEPARATOR

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		5.8	17.5
Gravel Pack			
Drilling Fluids			
Total			

[illegible]

Developer's Signature *Dennis Bied*

Date 11-9-99
Reviewer Vol. 100
Date 11/30/99

Well Development and Purging Data

Site Name STANDARD OIL COMPANY

Well Number MU-1

Meter Code 70445

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump**
☐ Centrifugal
☐ Submersible
☐ Peristaltic
- Bailer**
☒ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 32.95
 Initial Depth to Water (feet) 19.91
 Height of Water Column in Well (feet) 13.02

Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>8.6</u>	<u>25.8</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☐ Conductivity Meter
☒ Temperature Meter
☒ Other P.O. CHEMISTS KIT

Water Disposal

KUTZ SEPARATOR

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		pH	Conductivity $\mu\text{mho/cm}$	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative				
11-9-99	1123													
11-9-99	1131						5.0	5.0			7.11	4810		
11-9-99	1139						5.0	10.0			7.30	5020		
11-9-99	1149						5.0	15.0			7.34	5040		
11-9-99	1156						5.0	20.0			7.32	5040		
11-9-99	1205						5.0	25.0			7.38	5010	0.5	

Comments

THE WATER HAD A STRONG HYDROGEN SULFIDE SMELL.

Developer's Signature

Demetrius Bled

Date 11-9-99

Reviewer

John Funder

Date

11/30/99

.....	☐	Development
.....	☒	Purging

Well Number MW-1
Meter Code 97213

☒	3 to 5 Casing Volumes of Water Removal
☐	Stabilization of Indicator Parameters
☐	Other

☐	Pump		Bailer
☐	Centrifugal	☒	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer

Initial Depth of Well (feet) 40.9
Initial Depth to Water (feet) 32.19
Height of Water Column in Well (feet) 8.72

Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		5.8	17.3
Gravel Pack			
Drilling Fluids			
Total			

☒	pH Meter
☐	DO Monitor
☒	Conductivity Meter
☒	Temperature Meter
☒	Other <u>D.O. CR</u>

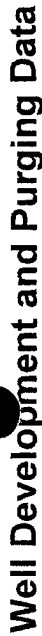
Water Disposal

KUTZ SEP 1979

[illegible]

Comments THE WELL BAILED ONLY @ 6.0 GALLONS. THE WATER HAD A LIGHT HYDROGEN SULFIDE SMELL.

Developer's Signature Dennis Bird Date 11-9-99 Reviewer John Lardi Date 11/30/99



Well Number MW-

Meter Code **LD148**

Development Criteria

- | | |
|-------------------------------------|--|
| ☒ | 3 to 5 Casing Volumes of Water Removal |
| ☐ | Stabilization of Indicator Parameters |
| ☐ | Other |

Methods of Development

- | | | |
|--------------------------|-------------|---|
| ☐ | Pump | Bailer |
| ☐ | Centrifugal | Bottom Valve ☒ |
| ☐ | Submersible | Double Check Valve ☐ |
| ☐ | Peristaltic | Stainless-steel Kemmerer ☐ |

Water Volume Calculation

Initial Depth of Well (feet) 443

Initial Depth to Water (feet) 32.99

Height of Water Column in Well (feet)

Diameter (inches)	Wall
44	Gravel Pack

Diameter (inches):	Well	Gravel Back	Callons
		Water Volume in Well	

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		5.5	16.5
Gravel Pack			
Drilling Fluids			
Total			

Water Removal Data

[illegible]

Comments THE WATER HAD A STRONG HYDROCARBON SMELL.

Developer's Signature
Dennis Bird

Date 11-9-99

Reviewer

John Gardner

Date _____

563/02/11

PINNACLE
LABORATORIES

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

Pinnacle Lab ID number 911051
November 19, 1999



EL PASO FIELD SERVICES
770 WEST NAVAJO
FARMINGTON, NM 87401

Project Name PIT MONITOR WELLS
Project Number (none)

*Multiple wells
shown on Next Page*

Attention: JOHN LAMBDIN

On 11/16/99 Pinnacle Laboratories, Inc. 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.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

*Reviewed & Accepted
J. J. J. 11/30/99*



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

CLIENT	: EL PASO FIELD SERVICES	PINNACLE ID	: 911051
PROJECT #	: (none)	DATE RECEIVED	: 11/16/99
PROJECT NAME	: PIT MONITOR WELLS	REPORT DATE	: 11/19/99

PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	990440 - mc# LD169, D Loop Line Drip	AQUEOUS	11/9/99
02	990441 - mc# 70445, Standard 0.1 Qm #1	AQUEOUS	11/9/99
03	990442 - mc# 97213, Hammer #9	AQUEOUS	11/9/99
04	990443 - mc# 2D146, Lateral 3B-39 Line Drip	AQUEOUS	11/9/99
05	TRIP BLANK	AQUEOUS	11/9/99

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PIT MONITOR WELLS

PINNACLE I.D.: 911051

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	990440	AQUEOUS	11/9/99	NA	11/16/99	10
02	990441	AQUEOUS	11/9/99	NA	11/16/99	20
03	990442	AQUEOUS	11/9/99	NA	11/16/99	20
PARAMETER		DET. LIMIT	UNITS	990440	990441	990442
BENZENE		0.5	UG/L	410	240	120
TOLUENE		0.5	UG/L	21	98	39
ETHYLBENZENE		0.5	UG/L	330	180	75
TOTAL XYLENES		0.5	UG/L	230	1500	170

SURROGATE:

BROMOFLUOROBENZENE (%)

107

95

101

SURROGATE LIMITS (80 - 120)

LD 169

70445

97213

D Loop Line Drip

Standard Oil
Com#1

Hammer #9

Sample 4 13th Qtr

Sample 4
13th Qtr

Sample 4
13th Qtr

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PIT MONITOR WELLS

PINNACLE I.D.: 911051

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	990443	AQUEOUS	11/9/99	NA	11/16/99	10
05	TRIP BLANK	AQUEOUS	11/9/99	NA	11/17/99	1

PARAMETER	DET. LIMIT	UNITS	990443	TRIP BLANK
BENZENE	0.5	UG/L	< 5.0	< 0.5
TOLUENE	0.5	UG/L	21	< 0.5
ETHYLBENZENE	0.5	UG/L	340	< 0.5
TOTAL XYLENES	0.5	UG/L	5900(D50)	< 0.5

SURROGATE:
BROMOFLUOROBENZENE (%) 98 111
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
(D50) = 50 X DILUTION ANALYZED ON 11/17/99.

LD 146
Lateral 38-39
Line Drip
Sample 4
11th Qtr



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

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 911051
BLANK I. D.	: 111699	DATE EXTRACTED	: NA
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 11/16/99
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: PIT MONITOR WELLS		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:
BROMOFLUOROBENZENE (%) 100
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A



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

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 911051
BLANK I. D.	: 111799	DATE EXTRACTED	: NA
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 11/17/99
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: PIT MONITOR WELLS		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:
BROMOFLUOROBENZENE (%) 103
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A



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

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 111699
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PIT MONITOR WELLS

PINNACLE I.D. : 911051
DATE EXTRACTED : NA
DATE ANALYZED : 11/17/99
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	17.5	88	17.4	87	1	(80 - 120)	20
TOLUENE	<0.5	20.0	18.9	95	18.5	93	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.6	98	19.5	98	1	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	59.6	99	59.1	99	1	(80 - 120)	20

COMMIT NOTES:
N/A

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

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

SHADED AREAS ARE FOR LAB USE ONLY.

LABORATORIES
Immaculate Laboratories Inc.

CHAIN OF CUSTODY
DATE: 11-9-99 PAGE: 1 OF 1

PLI Accession #

916051

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
990440	11-9-99	1202	WATER	01
990441	11-9-99	1217	WATER	02
990442	11-9-99	1438	WATER	03
990443	11-9-99	1610	WATER	04
TRIP BLANKS	11-9-99		WATER	05

PROJECT MANAGER:	DEAN CAMPBELL
COMPANY:	EL PASO FIELD SERVICES
ADDRESS:	710 WEST WATKINS
	FARMINGTON NM
PHONE:	(505) 599-2144
FAX:	(505) 599-8261
BILL TO:	STATE AS ABOVE
COMPANY:	
ADDRESS:	

Petroleum Hydrocarbons (418.1) TRPH	
(MOD.8015) Diesel/Direct Inject	
(M8015) Gas/Purge & Trap	
8021 (BTEX)/8015 (Gasoline) MTBE	
8021 (BTEX) ☒ MTBE ☐ TMB ☐ PCE	X X X X X
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:	

PROJECT INFORMATION		PRIORITY AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	
PROJ. NO.:		(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK	(NORMAL) ☒
PROJ. NAME:	PTT MASTER WELLS	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER	
P.O. NO.:		METHANOL PRESERVATION ☐	
SHIPPED VIA:	FED-X	COMMENTS: ☐ FIXED FEE ☐	
SAMPLE RECEIPT			
NO. CONTAINERS:	9		
CUSTODY SEALS:	V/N/NA		
RECEIVED INTACT:	YES		
BLUE ICE/ICE:	600		
RELINQUISHED BY:		RELINQUISHED BY:	
Signature: <i>Deanna Bird</i> Time: 11:35		Signature: <i>Deanna Bird</i> Time: 11:35	
Printed Name: Deanna Bird Date: 11-9-99		Printed Name: Deanna Bird Date: 11-9-99	
Company: EL PASO FIELD SERVICE		Company: EL PASO FIELD SERVICE	
Saw reverse side (Force Majeure)		Saw reverse side (Force Majeure)	
RECEIVED BY:		RECEIVED BY (LAB):	
Signature: <i>Deanna Bird</i> Time: 11:35		Signature: <i>Deanna Bird</i> Time: 11:35	
Printed Name: Deanna Bird Date: 11-9-99		Printed Name: Deanna Bird Date: 11-9-99	
Company: EL PASO FIELD SERVICE		Company: EL PASO FIELD SERVICE	