



1R-13

SOIL ASSESSMENT REPORT

MOBIL STATE ZZ
CRUDE OIL PIPELINE RELEASE SITE
SECTION 7, T-17-S, R-35-E
LEA COUNTY, NEW MEXICO

Prepared For:

Ms. Deb Edwards
EXXONMOBIL REFINING AND SUPPLY
GLOBAL REMEDIATION
2800 Decker Dr., Room NW-46
Baytown, Texas 77520

RECEIVED
Hobbs
000

1RP#13

Prepared by: Conestoga-Rovers & Associates

(Formerly BNC Environmental
Services, Inc.)

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MARCH 3, 2005
REF. NO. 041687



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

SENT
10:00
1/18/06

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

January 18, 2006

Ms. Deborah Edwards deborah.a.edwards@exxonmobil.com
ExxonMobil R&F GR
2800 Decker Dr. Room NW 46
Houston, TX 77520

Re: Remediation Work Plan Approval: Mobil State ZZ
 Site Reference Sec-7 T-17S R-35E
 Initial C-141 Dated: January 28, 2005
 Reported Spill Occurrence Date: July 18, 2003
 Request Plan Dated: November 14, 2005

Dear Ms. Edwards,

The Remediation Plan Proposal submitted to the New Mexico Oil Conservation Division (OCD) by Conestoga-Rovers & Associates (CRA) for ExxonMobil R&F GR (EM) is **hereby approved** for 90 days with the following considerations:

- Letter of confirmation to OCD designating CRA as agent for EM regarding this site
- 48 hour notification to OCD prior to initiation of work activity
- 48 hour notification to OCD prior to final sampling events
- Report to OCD lab tests of the current stockpiles for TPH and chlorides prior to hauling
- Backfill material will be tested for chlorides, submitted to OCD for approval prior to commencing backfill operation

Please be advised that OCD approval of this plan does not relieve EM Pipeline of responsibility should their operations fail to adequately investigate contaminants that threaten ground water, surface water, human health or the environment. Additionally, OCD approval does not relieve EM of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please call (505) 393-6161, x111 or
e-mail lwjohnson@state.nm.us

Sincerely,

Larry Johnson - Environmental Engineer

Cc: Roger Anderson – Environmental Bureau Chief
 Chris Williams - District I Supervisor
 Paul Sheeley – Environmental Engineer

ExxonMobil Pipeline Company

Post Office Box 2220
Houston, Texas 77002
713 656 0227 Telephone
713 656 8232 Facsimile

Karen R. Bailor

Safety, Health and Environment
Manager

ExxonMobil
Pipeline

April 20, 2005

CERTIFIED - RETURN RECEIPT REQUESTED

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division, District I
1625 N. French Dr.
Hobbs, New Mexico 88240

Attention: Mr. Larry W. Johnson

Re: Form C-141 Crude Oil Release - July 18, 2003
Mobil Pipe Line Company - Vacuum Gathering System



Dear Mr. Johnson:

Pursuant to your 2nd rejection on April 8, 2005 of Form C-141 pertaining to the July 18, 2003 crude oil release in Mobil Pipe Line Company's (MPLCo) Vacuum Gathering System, your 2nd rejection notice stated that submitted information was incomplete and requires review for accuracy and needs to be resubmitted to your office by April 13, 2005. The feedback on the rejection notice did not provide us any insight as to what information requires clarification.

MPLCo wants to resolve this matter with you and have tried unsuccessfully on four occasions to reach you via telephone (left voice message) and three e-mails. MPLCo is attempting to be responsive to your requests and bringing this matter to closure. Please contact Mike Adams, of my staff, and he will be glad to help resolve any outstanding data you need. His telephone number is (713) 656-3926.

Mr. Larry Johnson
Energy Minerals and Natural Resources
Oil Conservation Division, District I
Page 2

ExxonMobil Pipeline Company is submitting this report on behalf of Mobil Pipe
Line Company.

Sincerely,

A handwritten signature in cursive script, appearing to read "K R Bailor".

Karen R. Bailor

Cc: D. A. Edwards - Remediation Technical Consultant - ExxonMobil R&S
Roger Anderson - NMOCD Environmental Bureau Chief
Chris Williams - NMOCD District I Supervisor
Ed Martin - NMOCD Environmental Engineer
Paul Sheeley - NMOCD Environmental Engineer

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APPENDICIES

APPENDIX A	Form C-141, Release Notification and Corrective Action
APPENDIX B	Water Well Search
APPENDIX C	New Mexico Office of the State Engineer Well Records
APPENDIX D	Certified Laboratory Reports

1.0 INTRODUCTION

This Soil Assessment Report presents soil assessment data collected by Conestoga-Rovers & Associates (CRA), formerly doing business as BNC Environmental Services, Inc. (BNC), at the former ExxonMobil Pipeline Company (EMPCo) Mobil State ZZ pipeline release site. The surface property is owned by Eidson Ranch, Incorporated. The assessment activities were conducted on behalf of ExxonMobil Refining and Supply - Global Remediation (EMGR) personnel.

The Mobil State ZZ crude oil pipeline release site (hereafter referred to as the "Site") is located in eastern Lea County, New Mexico (FIGURE 1). The legal description of the Site is the NW/4 of Section 7, T-17-S, R-35-E. A crude oil release from a 4-inch gathering line occurred on July 18, 2003. The release information is documented in a correspondence dated January 28, 2005 from EMPCo to Mr. Larry Johnson of the New Mexico Oil Conservation Division (NMOCD) District 1 office. The correspondence included NMOCD Form C-141 Release Notification and Corrective Action (APPENDIX A) which reported that the volume of release was four barrels of sweet crude oil and one barrel was recovered.

The gathering pipeline was operated by EMPCo until its purchase by Trojan Pipeline L.P. (Trojan) in February, 2004. Trojan changed their name to Centurion Pipeline L.P. (Centurion) in July, 2004. The gathering pipeline is currently operated by Centurion.

The Site is situated in the North Vacuum (Abo) oil field area surrounded by properties operated by Mobil Oil Corporation. The surface is part of a physiographic province referred to as the "Llano Estacado" (a.k.a. the "staked plains"). The ground surface is generally flat with a cover of short grasses and relatively void of shrubs and larger vegetation. The soil cover is relatively thin and underlain by caliche and silty sands.

Initial excavation activities and pipeline repair activities were performed at the Site by an unreported third party. Previous investigations at the Site included excavation activities initiated by B&H Environmental Services (B&H) on December 22, 2003, on behalf of EMPCo. On January 8, 2004, B&H ceased excavation activities at the request of EMPCo. The resultant remedial excavation measured 90-feet by 75-feet with a maximum depth of 5.5-feet. B&H collected two composite soil samples from the excavated area and three composite soil samples from stockpiled soils at the Site. All samples exhibited total petroleum hydrocarbon concentrations above 5,000 milligrams per kilogram (mg/Kg) and New Mexico Oil Conservation Commission soil remediation standards. Approximately 2,000 - 3,000 cubic yards of soils are currently stockpiled onsite.

BNC conducted a Site inspection on August 4, 2004 on behalf of EMGR to assess site conditions and to develop a work scope to investigate the crude oil release area. Subsequently, an access agreement with the property owner was executed. Wet weather conditions postponed a scheduled drilling event in November 2004. The NMOCD District 1 office in Hobbs, New Mexico was notified of the planned assessment prior to conducting field operations.

PHONE CALL FROM BNC 1/10/05 @ 3:10 PM

On January 12, 2005, CRA and White Drilling Company mobilized to the Site and conducted the soil assessment activities documented within this report. The following sections summarize the soil assessment activities. Figures and tables are utilized to support the summary of findings associated with the assessment activities.

2.0 REGULATORY FRAMEWORK AND SITE CLASSIFICATION

The NMOCD has regulatory jurisdiction over oil and gas production operations including crude oil pipeline spills and closure activities in the State of New Mexico. This project was conducted under the regulatory jurisdiction of the NMOCD, which requires the vadose zone shall be abated so that water contaminants in the vadose zone will not with reasonable probability contaminate ground water or surface water (toxic pollutants as defined in 20.6.2.7 NMAC shall not be present) through leaching, percolation, or other transport mechanisms (19.15.1.19 NMAC, Subsection B, Paragraphs 1 and 2). The NMOCD hydrocarbon soil remediation levels are determined by ranking criteria on a site-by-site basis, which is outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection and distance to surface water.

Groundwater information obtained from the New Mexico State Engineer's Office and a water well search (APPENDIX B) indicated that the depth-to- groundwater at the Site is approximately 60-feet below ground surface (bgs). Information collected as part of this soil assessment illustrates that the base of hydrocarbon impacts above regulatory levels is approximately 15- to 20-feet bgs. Based on these Site characteristics and associated NMOCD-ranking criteria presented in the table below, the following soil hydrocarbon remediation levels are applicable at the Site: benzene- 10 parts-per-million (ppm), benzene, toluene, ethylbenzene and xylene (Total BTEX) - 50 ppm and TPH- 100 ppm. Analytical results for soil data are reported in milligrams per kilograms (mg/Kg) which are equivalent to the ppm reporting units. Note that the depth to groundwater characteristic is defined by the NMOCD as "the vertical distance from the lowermost contaminants to the seasonal high water elevation of the groundwater."

Ranking Criteria and Scoring

CHARACTERISTIC	SELECTION	SCORE
Depth to Groundwater	<50 feet	20
Wellhead Protection Area	>1,000 feet	0
Distance to Surface Water	>1,000 feet	0

Total Score= 20

Soil Remediation Levels

Contaminant of Concern	>19 Score	10-19 Score	0-9 Score
Benzene (mg/Kg)	10	10	10
Total BTEX (mg/Kg)	50	50	50
TPH (mg/Kg)	100	1,000	5,000

3.0 SOIL ASSESSMENT

Eight soil borings were initially proposed to evaluate the nature and extent of soil impacts at the Site. During the soil assessment activities, Site conditions indicated that soil impacts did not extend to groundwater. Drilling activities were conducted on January 12 and 13, 2005. Site Details are presented as FIGURE 2.

3.1 Field Methodology

An air-rotary drilling rig was used to advance soil borings from the ground surface to depths ranging from 25- to 35-feet bgs. Prior to drilling, all soil boring locations were approved by EMGR personnel and marked appropriately. The utility notification service was also notified and provided 48-hours to mark their utilities if present. Prior to drilling, each soil boring location was probed and hand-cleared to an approximate depth of 4-feet bgs. The hand-cleared soil boring locations were greater than 3-inches in diameter, larger than the diameter of the largest down hole tool. The OIMS System 2-Attachment 2.2, Pre-Drilling Protocol was strictly adhered to during all operations. Soil borings were terminated based on Site observations of soil conditions and the profession judgment of the CRA field geologist.

Discrete, undisturbed soil samples were retrieved in 5-foot intervals by removing the drilling bit and installing a steel soil-sampling coring barrel (1-foot in length) and rotating it into the soil or by pushing a split-spoon sampling device. Compressed air was not used during the sample coring. In addition, drill cutting samples were collected, logged and field screened with a photo-ionization detector (PID) on a continuous basis during the boring advancements. The drill cuttings generated during the assessment were placed on the existing impacted soil stockpiles for subsequent management. Each 1-foot soil sample retrieved from the coring tool was divided into two samples: one sample was sealed in a new plastic re-sealable bag; and the other sample was immediately placed into a laboratory-supplied, four-ounce soil jar equipped with a Teflon-lined lid and placed on ice in an insulated cooler. The bagged sample was allowed to volatize, leaving a headspace for volatile organic compounds (VOCs) to collect. After sufficient time had elapsed to allow for volatilization, the headspace was screened for the presence of VOCs using a PID. In addition, CRA's field geologist described each sample using the Unified Soil Classification System and logged visual and olfactory observations as well as PID readings for evaluation of the presence of hydrocarbons.

Soil samples collected for laboratory analysis were based on physical observations, field VOC measurements and the professional judgment of the CRA field geologist. All soil samples were chilled to a temperature of approximately 4°C (40°F), submitted to SPL in Houston, Texas and analyzed for TPH concentrations by EPA Method 8015 modified for gasoline range organics (GRO) and diesel range organics (DRO), chlorides by EPA Method E300 MOD, as well as, BTEX concentrations by EPA Method 8021B. The coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory.

Prior to advancing the first boring, between samples and between soil boring, the pertinent areas of the drilling rig and sampling tools were steam-cleaned to minimize the potential for cross-contamination. After drilling and sampling activities were completed, the borings

were permanently plugged with bentonite/grout mixture to prevent subsurface impact from surface runoff.

Boring log details, including the soil boring legend and notes are presented in FIGURES 3, 4, and 5. In addition, New Mexico Office of the State Engineer Well Records are supplied in APPENDIX C.

3.2 Subsurface Lithology

Soil samples were logged by a CRA field geologist and the general subsurface lithologies observed in the samples are presented below. The approximate interval thicknesses, depths, and occurrences for the following soil types are presented within the boring logs and details for each soil boring. The three subsurface soil types encountered during the assessment include the following descriptions:

- Soil Type #1 is a Sandy Clay, grayish brown (5YR 3/2), fine to very fine grained, soft, moderate plasticity;
- Soil Type #2 is a Silty Sand (Caliche), grayish orange pink (10R 8/2), fine to very fine grained, poor grading to moderately well cemented at bottom of unit; and
- Soil Type #3 is a Sand, grayish orange pink (10Y 8/2), fine grained, poor to moderately well cemented.

3.3 Soil Assessment Results

Twenty-eight soil samples were collected from varying depths within the eight soil boring locations and submitted to SPL for BTEX, TPH (GRO/DRO) and chloride analysis. Two soil borings, SB-1 and SB-2, were located within the existing excavation constructed from the initial pipeline repair and soil remediation activities (FIGURE 2). The remaining six soil borings, SB-3 through SB-8, are located around the perimeter of the remedial excavation. The submitted samples were selected to evaluate the highest possible contaminant concentration(s) in each soil boring and to assess the vertical and horizontal extent of hydrocarbon impacts.

TABLE I displays the soil sample analytical results for BTEX, TPH (GRO/DRO) and Chlorides from the eight soil borings advanced at the Site during the assessment. Field PID measurements are also presented on the table. The NMOCD recommended remediation action levels (RRALs) are also presented for comparison to the analytical results. Of the eight borings advanced at the Site, only the two borings situated within remedial excavation exhibited hydrocarbon concentrations above the regulatory RRALs. The 9- to 10-foot sample in SB-1 exceeded the TPH (GRO/DRO) RRAL with a concentration of 130.62 mg/Kg. The 9- to 10-foot and 14- to 15-foot samples in SB-2 exceeded TPH (GRO/DRO) and total BTEX RRALs with concentrations ranging from 1,260 to 4,700 mg/Kg and 83.550 to 250.300 mg/Kg, respectively. The bottom 10-feet (at a minimum) of each boring did not exhibit analytical results for BTEX or TPH (GRO/DRO) above laboratory detection levels. Copies of the certified analytical reports and chain-of-custody documentation are attached in APPENDIX D.

4.0 SUMMARY OF FINDINGS

Based on record reviews and soil assessment activities performed at the Site, CRA presents the following summary of findings:

- The Mobil State ZZ crude oil pipeline release site is located in eastern Lea County, New Mexico in the NW/4 of Section 7, T-17-S, R-35-E. A crude oil release from a 4-inch gathering line occurred on July 18, 2003. A correspondence dated January 28, 2005 from EMPCo was submitted to Mr. Larry Johnson of the New Mexico Oil Conservation Division (NMOCD) District 1 office that included NMOCD Form C-141 Release Notification and Corrective Action. The C-141 reported that the volume of release was 4-barrels of sweet crude oil and 1-barrel was recovered.
- Based on Site characteristics and associated NMOCD-ranking criteria, the following soil hydrocarbon recommended remediation levels apply at the Site: benzene- 10 ppm, BTEX- 50 ppm and TPH- 100 ppm.
- Initial excavation activities and pipeline repair activities were performed at the Site by an unknown third party. Previous investigations at the Mobil State ZZ crude oil release included excavation activities initiated by B&H Environmental Services (B&H) on December 22, 2003, on behalf of ExxonMobil Pipeline Company (EMPCo). On January 8, 2004, B&H ceased excavation activities at the request of EMPCo. The resultant excavation measured 90-feet by 75-feet with a maximum depth of 5.5-feet. B&H collected two composite soil samples from the excavated area and three composite soil samples from stockpiled soils at the Site. All samples exhibited total petroleum hydrocarbon concentrations above 5,000 milligrams per kilogram (mg/Kg) and New Mexico Oil Conservation Commission soil remediation standards. Approximately 2,000 – 3,000 cubic yards of soils are currently stockpiled onsite.
- On January 12, 2005, CRA mobilized to the Site and conducted soil assessment activities including the installation of eight soil borings (SB-1 through SB-8). Of the eight borings advanced at the Site, only the two borings situated within remedial excavation exhibited hydrocarbon concentrations above the regulatory RRALs. The 9-10' sample in SB-1 exceeded the TPH (GRO/DRO) RRAL with a concentration of 130.62 mg/Kg. The 9- to 10-foot and 14- to 15-foot samples in SB-2 exceeded TPH (GRO/DRO) and total BTEX RRALs with concentrations ranging from 1,260 to 4,700 mg/Kg and 83.550 to 250.300 mg/Kg, respectively. The bottom 10-feet (at a minimum) of each boring did not exhibit BTEX or TPH (GRO/DRO) concentrations above laboratory detection levels.
- Groundwater was not encountered in the eight soil borings advanced at the site.

The results of the soil assessment activities at the Mobil State ZZ crude oil pipeline release site demonstrate that the vertical and horizontal extent of the hydrocarbon-impacted soils has been delineated. Additional remediation activities to address existing Site conditions are currently under consideration.

All of Which is Respectfully Submitted,
Conestoga-Rovers & Associates



Thomas C. Larson
Senior Geologist

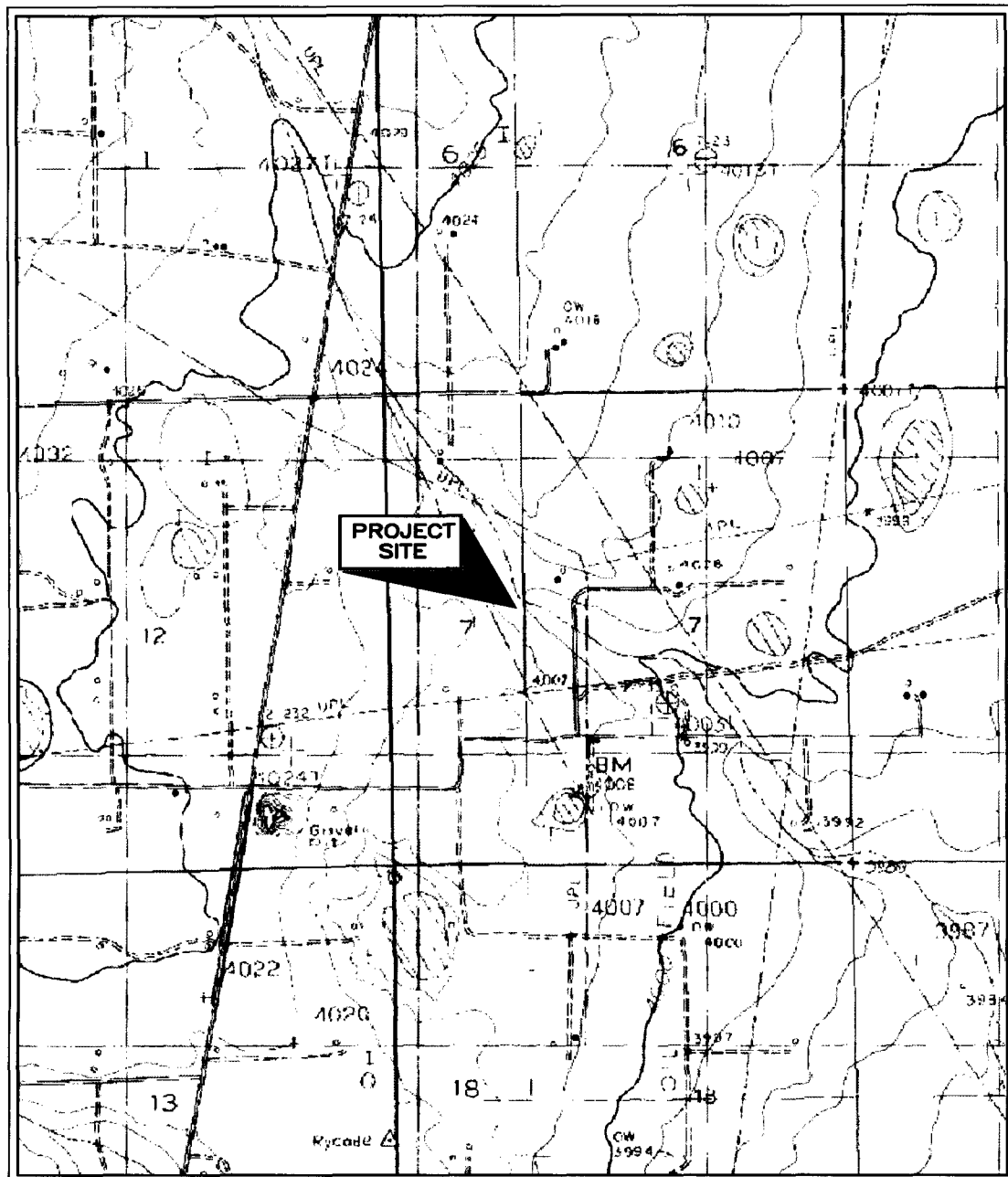


Aaron M. Hale
Project Geologist

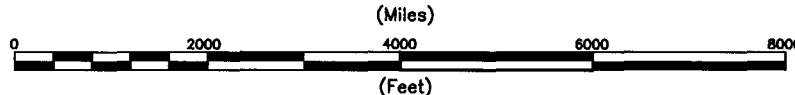
BUCKEYE QUADRANGLE TEXAS

LAT= 32° 51' 2.4" N
LONG= 103° 30' 3" W

PHOTOREVISED 1992



MAP SERIES 1:24000



CONTOUR INTERVAL 5 FEET



NORTH

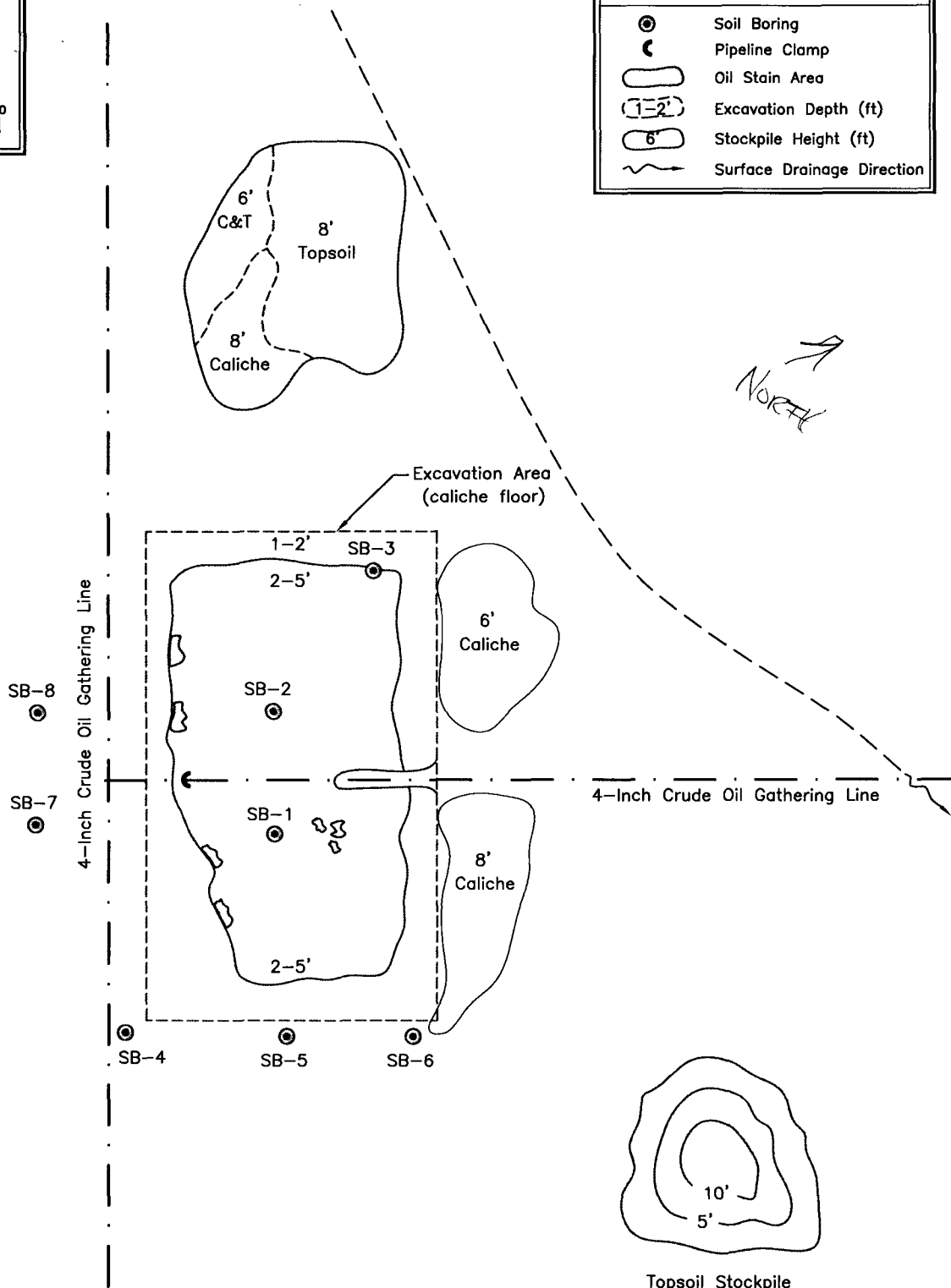
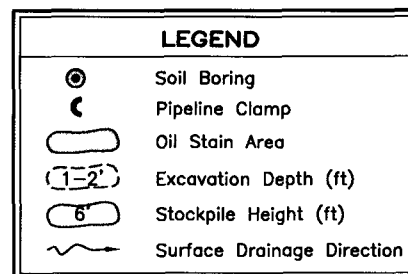
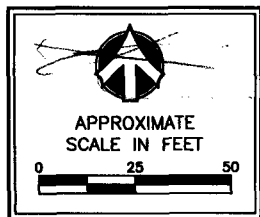
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SITE LOCATION MAP
EXXONMOBIL PIPELINE COMPANY
MOBIL STATE ZZ
SECTION 7(F), T-17-S; R-35-E LEA COUNTY, NEW MEXICO

JOB No.
041687

FIGURE
1



NOTE:

Soil boring analytical concentrations and site lithology located on FIGURES 4 and 5.

041687 SLR 022805



SITE DETAILS	
EXXONMOBIL PIPELINE COMPANY	
MOBIL STATE ZZ	
SECTION 7(F), T-17-S; R-35-E	LEA COUNTY, NEW MEXICO

JOB No. 041687
FIGURE 2

SOIL TYPE

 Sandy Clay: Grayish Brown (5YR 3/2), fine to very fine grained, soft, moderate plasticity.

 Silty Sand: (Calliche) Grayish Orange Pink (10R 8/2), fine to very fine grained, poor grading to moderately well cemented at bottom of unit.

 Sand: Grayish Orange Pink (10R 8/2), fine grained, poor to moderately well cemented.

 Indicates sample selected for laboratory analysis.

 Indicates sample interval. Sample was obtained by split spoon.

 Indicates sample interval. Sample was obtained by a rock core.

B Benzene Concentration (mg/Kg)
BTEX Benzene, Toluene, Ethylbenzene and Xylenes Concentration (mg/Kg)
TPH Total Petroleum Hydrocarbons Concentration (mg/Kg)
TPH TPH (GRO/DRO)
PID Head-space readings in ppm obtained with a photo-ionization detector.

NOTES

1. The soil borings were completed between January 12 and 13, 2005 utilizing an air rotary drilling rig.
2. The lines between soil types indicated on the logs represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from the ground surface.
4. Soil borings were grouted with bentonite/grout mixture.

041687 SLR 022805



LEGEND AND NOTES

EXXONMOBIL PIPELINE COMPANY
MOBIL STATE ZZ
SECTION 7(F), T-17-S; R-35-E LEA COUNTY, NEW MEXICO

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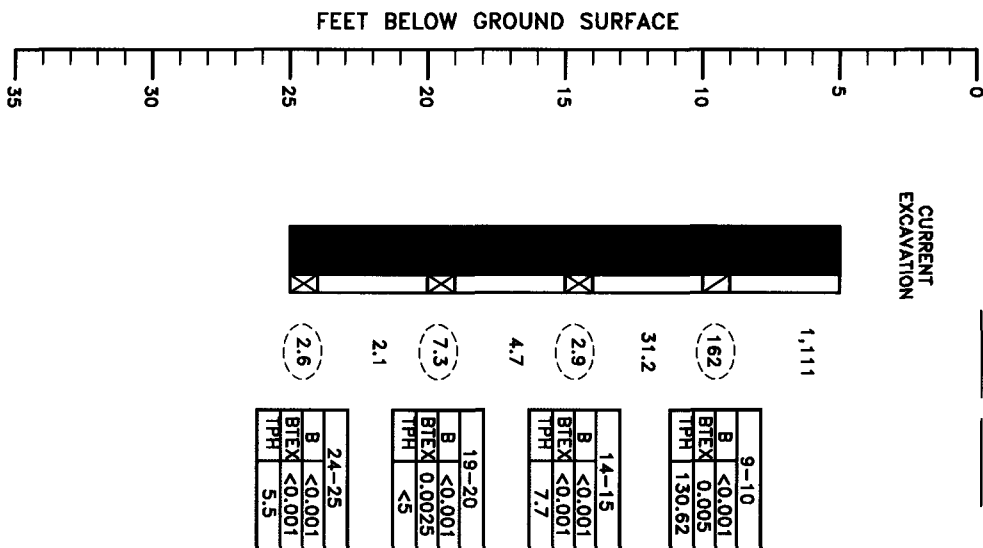
FIGURE 3



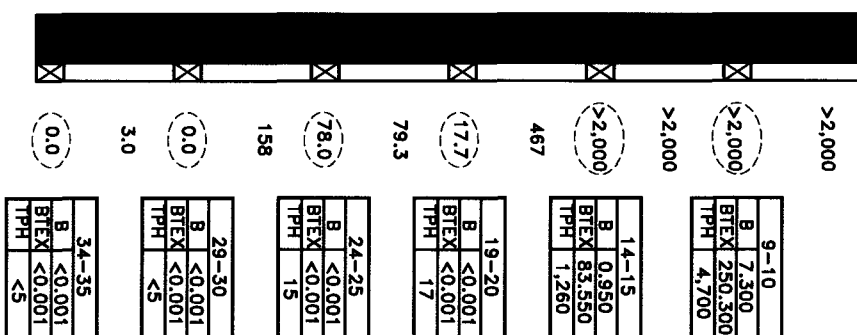
LOGS AND DETAILS FOR SOIL BORINGS SB-1 THROUGH SB-4
 EXXONMOBIL PIPELINE COMPANY
 MOBIL STATE ZZ
 SECTION 7(F), T-17-S; R-35-E
 LEA COUNTY, NEW MEXICO

SB-1

PID
 READINGS
 LAB
 RESULTS

CURRENT
EXCAVATION**SB-2**

PID
 READINGS
 LAB
 RESULTS

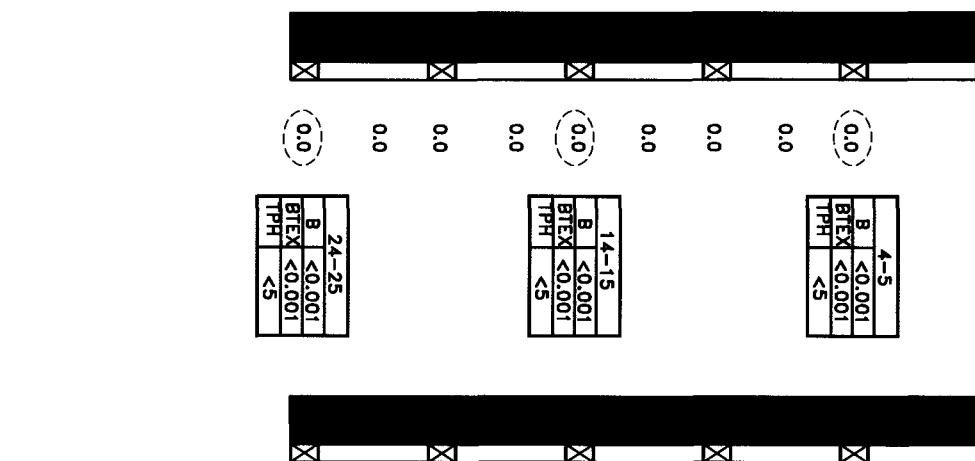
CURRENT
EXCAVATION**SB-3**

PID
 READINGS
 LAB
 RESULTS

4-5	B < 0.001 BTEX < 0.001 TPH < 5
-----	--------------------------------------

14-15	B < 0.001 BTEX < 0.001 TPH < 5
-------	--------------------------------------

24-25	B < 0.001 BTEX < 0.001 TPH < 5
-------	--------------------------------------

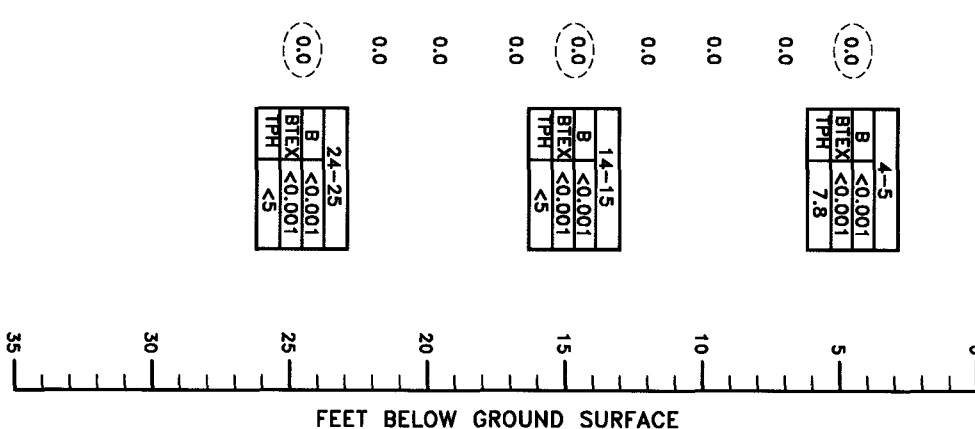
**SB-4**

PID
 READINGS
 LAB
 RESULTS

4-5	B < 0.001 BTEX < 0.001 TPH 7.8
-----	--------------------------------------

14-15	B < 0.001 BTEX < 0.001 TPH < 5
-------	--------------------------------------

24-25	B < 0.001 BTEX < 0.001 TPH < 5
-------	--------------------------------------

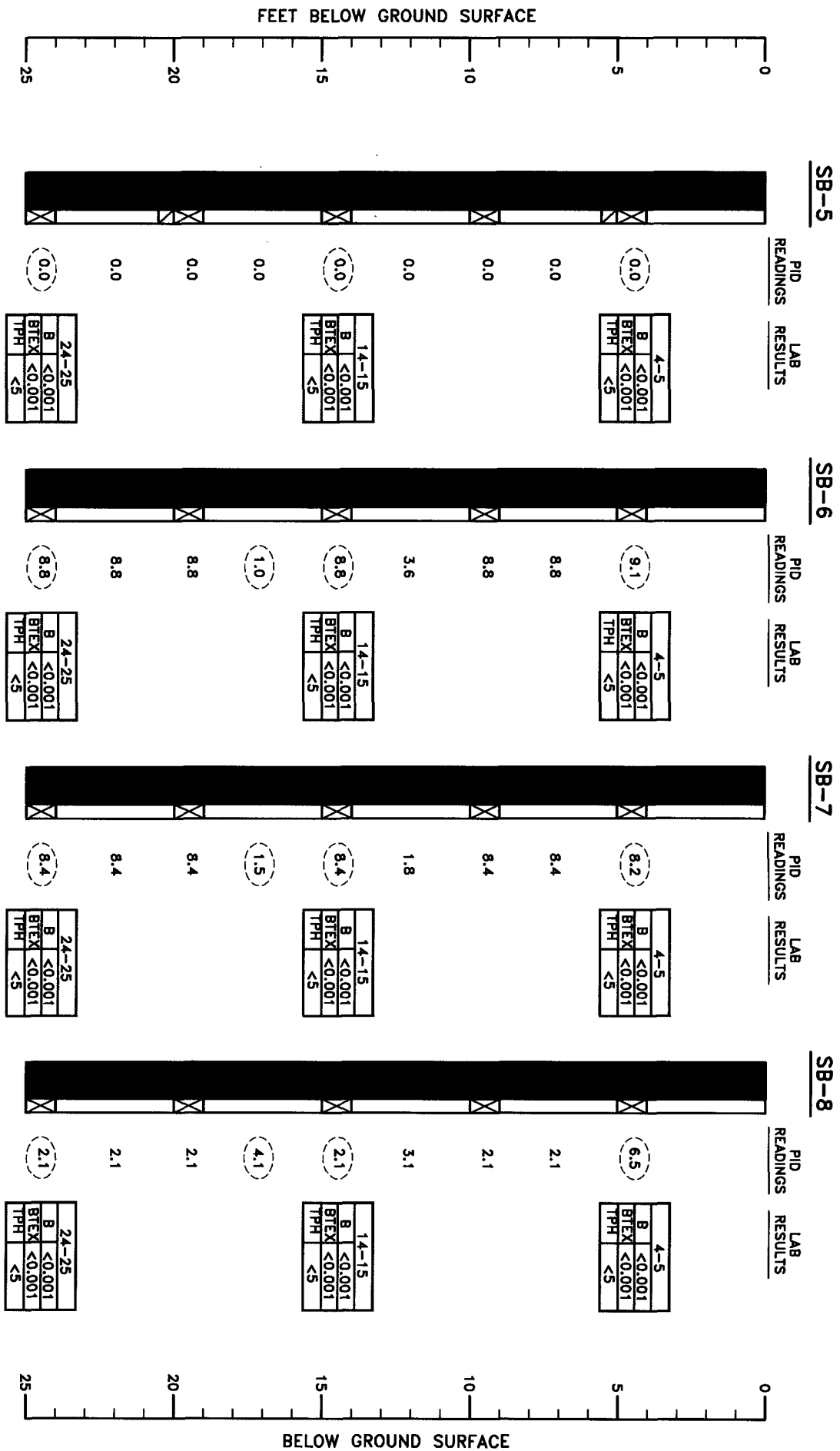


JOB No.

041687

FIGURE

4



LOGS AND DETAILS FOR SOIL BORINGS SB-5 THROUGH SB-8
EXXONMOBIL PIPELINE COMPANY
MOBIL STATE ZZ
SECTION 7(F), T-17-S; R-35-E LEA COUNTY, NEW MEXICO

JOB No.
041687

FIGURE
5

TABLE I

**SUMMARY OF SOIL ANALYTICAL DATA – BTEX/TPH/CHLORIDES
MOBIL STATE ZZ
LEA COUNTY, NEW MEXICO**

SAMPLE ID	DATE	DEPTH (feet)	PID (ppmv)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	CHLORIDE (mg/Kg)	TPH (8015 Modified)		
										TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH (GRO/DRO) (mg/Kg)
New Mexico Oil Conservation Division Recommended Remediation Action Levels (Total Ranking Score >19)												
				10 mg/Kg	---	---	---	50.0 mg/Kg	---	---	---	100 mg/Kg
Excavation Confirmation Samples												
SB-1	1/12/2005	9-10	162	<0.001	<0.001	<0.001	0.005	0.005	<5	0.62	130	130.62
	1/12/2005	14-15	2.9	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	7.7	7.7
	1/12/2005	19-20	7.3	<0.001	<0.001	<0.001	0.0025	0.0025	<5	<0.1	<5	<5
	1/12/2005	24-25	2.6	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	5.5	5.5
SB-2	1/12/2005	9-10	>2,000	7.300	90.000	83.000	70.000	250.300	<5	1,100	3,600	4,700
	1/12/2005	14-15	>2,000	0.950	26.000	30.000	26.600	83.550	<5	370	890	1,260
	1/12/2005	19-20	17.7	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	17	17
	1/12/2005	24-25	78.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	15	15
	1/12/2005	29-30	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/12/2005	34-35	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
SB-3	1/12/2005	4-5	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/12/2005	14-15	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/12/2005	24-25	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
SB-4	1/13/2005	4-5	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	7.8	7.8
	1/13/2005	14-15	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/13/2005	24-25	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
SB-5	1/13/2005	4-5	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/13/2005	14-15	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/13/2005	24-25	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
SB-6	1/13/2005	4-5	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	170	<0.1	<5	<5
	1/13/2005	14-15	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	37	<0.1	<5	<5
	1/13/2005	24-25	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	17	<0.1	<5	<5
SB-7	1/13/2005	4-5	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/13/2005	14-15	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/13/2005	24-25	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
SB-8	1/13/2005	4-5	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/13/2005	14-15	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	<5	<0.1	<5	<5
	1/13/2005	24-25	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	5	<0.1	<5	<5

Notes:

BTEX analysis by EPA Method 8021.

TPH analysis by EPA Method 8015 Modified.

Chloride analysis by EPA Method E300 MOD.

Bold concentrations above lab reporting limits.

Highlighted Concentrations above NMOC RRALs.

ExxonMobil Pipeline Company

Post Office Box 2220
Houston, Texas 77002
713 656 0227 Telephone
713 656 8232 Facsimile

Karen R. Sailor

Safety, Health and Environment
Manager

ExxonMobil
Pipeline

January 28, 2005

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division, District I
1625 N. French Dr.
Hobbs, New Mexico 88240

Attention: Mr. Larry W. Johnson

Re: Form C-141 Crude Oil Release - July 18, 2003
Mobil Pipe Line Company - Vacuum Gathering System

Dear Mr. Johnson:

Pursuant to your request, please find attached Form C-141 for a 4 barrel crude oil release which occurred on July 18, 2003 in Mobil Pipe Line Company's Vacuum Gathering System. 1 barrel was recovered.

Since this crude oil release was not greater than 5 barrels in volume, we are submitting this report to you as a courtesy. Our understanding of New Mexico Oil Conservation Division Rule 116 of 19.15.3 NMAC is that the release was not required to be reported to NMOCD verbally or on Form C-141. A verbal telephonic report was made to the New Mexico Environment Department.

ExxonMobil Pipeline Company is submitting this report on behalf of Mobil Pipe Line Company, pursuant to your request.

If you have any questions or need additional information, please call Mike Adams at 713-656-3926.

Sincerely,



KRB/mha
Attachments

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company Mobil Pipe Line Company	Contact Robert Day - Field Supervisor
Address P.O. Box 670, Seminole, Texas 79360	Telephone No. 432-686-1466
Facility Name Vacuum Gathering System	Facility Type Crude Oil Gathering System

Surface Owner Mobil Pipe Line Company (2) Mineral Owner

Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	7	17S	35E					Lea

Latitude N32.51.039 Longitude W103.30.038

NATURE OF RELEASE

Type of Release Sweet Crude Oil	Volume of Release (4) 4 barrels	Volume Recovered 1 barrel
Source of Release 4" Steel Pipeline	Date and Hour of Occurrence 7/18/2003 at 1030 hrs.	Date and Hour of Discovery 7/18/2003 at 1030 hrs.
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required (5)	If YES, To Whom? Verbal telephonic notification was given to the New Mexico Environment Department. Contact person's name was Roger.	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume: _____	

If a Watercourse was Impacted, Describe Fully.*

Not Applicable.

Describe Cause of Problem and Remedial Action Taken.*

Spill due to external corrosion on 4" steel gathering line. A Teak clamp was installed. All fit ambient soil. Remediated on site. (9)

Describe Area Affected and Cleanup Action Taken.*

Affected area consisted of approximately 33 feet X 33 feet X 1 foot deep within pipeline right required action levels.

I hereby certify that the information given above is true and complete to the best of my knowledge. Regulations all operators are required to report and/or file certain release notifications and protect public health or the environment. The acceptance of a C-141 report by the NMOCD marked should their operations have failed to adequately investigate and remediate contamination to the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the federal, state, or local laws and/or regulations.

Signature: K.R. Bailor

Printed Name: Karen R. Bailor

Title: Manager, Safety, Health & Environment

Email Address: karen.r.bailor@exxonmobil.com

Date: January 28, 2005

Phone: 713-65-0227

Attach Additional Sheets If Necessary

Approved by District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

OIL CONSERVATION DIVISION

- ① WHICH IS IT?
- ② WRONG
- ③ NEED UNIT LETTER OR FOOTINGS
- ④ 3 BBLs IMPACTED HOW MANY CUBIC YARDS TO WHAT EXTENT?
- ⑤ IF NOT REQUIRED, WHY WAS A ROGER ② ED CALLED? PLEASE VERIFY THIS.
- ⑥ SITE LOCATED IN LOW AREA OF WATER RUNOFF
- ⑦ LINE SECTION REPAIRED
- ⑧ WHERE TEST RESULTS TO CONFIRM
- ⑨ PRESENT HOLE IS 100X 60 - SLOPES FROM SURFACE TO 6' DEEP.

State of New Mexico

-2-

January 28, 2005

bcc / w attachments:

M. H. Adams

D. J. Brink

D. A. Edwards

Corporation

TelALL

Phase I Support Services

1502 West Ave Suite C, Austin, TX 78701
Tel: (800) 583-0004 Fax: (512) 472-4466

2/17/2005

Tom Larson
BNC Environmental Services
2135 S. Loop 250 West
Midland TX 79703

Re: Water Well Search BNCM6625

Tom Larson

Thank you for contacting TelALL Corporation for the attached water well search. We have searched for water wells within .5 miles of the subject site. The following is a description of our sources.

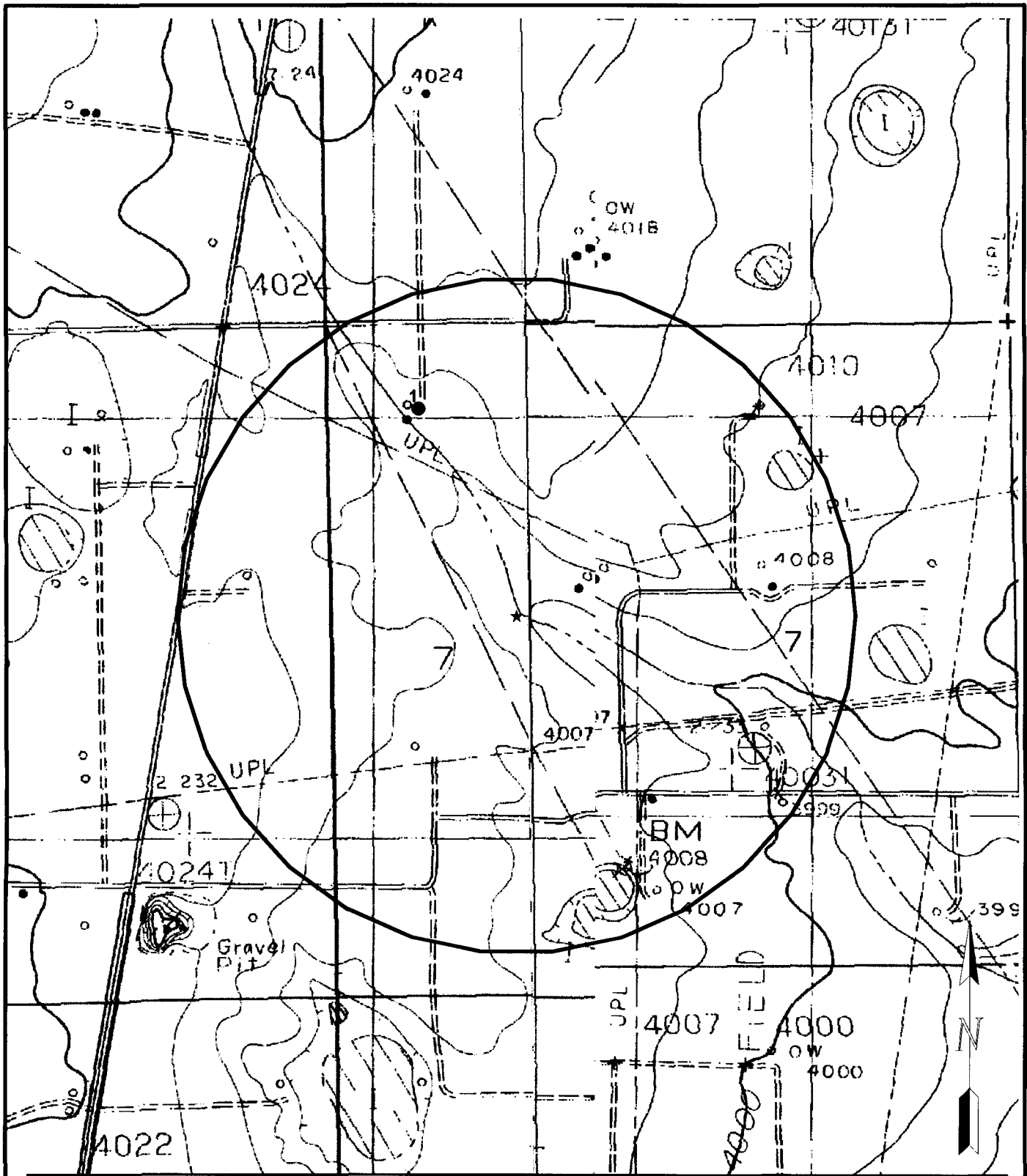
W.A.T.E.R.S. (Water Administration Technical Engineering Resource System)

The Office of the State Engineer (OSE) and the Interstate Stream Commission (ISC) maintain this database for administering the state's water resources. The agencies have power over the supervision, measurement, appropriation and distribution of almost all surface and ground water in New Mexico, including streams and rivers that cross state boundaries. The State Engineer is also secretary to the Interstate Stream Commission and oversees the staff of both agencies.

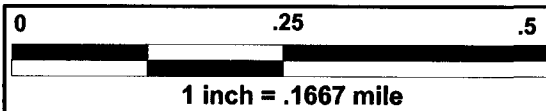
USGS

The USGS maintains information on 1.5 million wells nationwide to investigate the occurrence, quantity, quality, distribution, and movement of surface and underground waters. State and local governments, public and private utilities, and other Federal agencies are involved with managing the water resources.

If you have any questions, please contact the TelALL Corporation at 800-583-0004.



●
Mapped Water Well



TeiALL
Corporation

Site Locations are Approximate Only

★
Site

USGS 7.5 Min Quad(s): Buckeye, Lovington SW NM

(800) 683-8004 WWW.TEIALL.NET

BNCM6625

Mobil ZZ State

Water Well Search

Summary of wells

Hwy. 238

Lea County

Lea

NM

MapNumber	Well Number	Owner	Date Drilled	GridNumber	Comments
1	L 06878	Mobil TX & NM Prod	11-27-71	17S-35E-7	Prospecting Well Depth = 125 ft. Depth to water = 60 ft.

TelALL Corporation

Friday, February 18, 2005

Page 1 of 1

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County County.
B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____
C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s
D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)
E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey
F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.
G. Other: _____
H. Give State Engineer File Number if existing well: _____
I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-1

Drilling began: 01/12/05; Completed: 01/12/05; Type tools: Air Rotary;
Size of hole: 6 1/8 in.; Total depth of well: 20.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

Trn Number: _____
page 1 of 4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

SB-1

9. LOG OF HOLE

[illegible]

File Number: _____
Form: wr-20

page 3 of 4

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County County.
B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____
C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s
D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)
E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey
F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.
G. Other: _____
H. Give State Engineer File Number if existing well: _____
I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-2

Drilling began: 01/12/05; Completed: 01/12/05; Type tools: Air Rotary;
Size of hole: 6 1/8 in.; Total depth of well: 30.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

page 1 of 4

Trn Number: _____

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County County.
B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____
C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s
D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)
E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey
F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.
G. Other: _____
H. Give State Engineer File Number if existing well: _____
I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-3

Drilling began: 01/12/05 ; Completed: 01/12/05 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 25.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

page 1 of 4

Trn Number: _____

Trn Number: _____

File Number: _____

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-4

Drilling began: 01/13/05 ; Completed: 01/13/05 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 25.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 _____ 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County _____ County.
B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____
C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s
D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)
E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey
F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.
G. Other: _____
H. Give State Engineer File Number if existing well: _____
I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-5

Drilling began: 01/13/05 ; Completed: 01/13/05 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 25.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-6

Drilling began: 01/13/05; Completed: 01/13/05; Type tools: Air Rotary;
Size of hole: 6 1/8 in.; Total depth of well: 25.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

Trn Number: _____

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-7

Drilling began: 01/13/05; Completed: 01/13/05; Type tools: Air Rotary;
Size of hole: 6 1/8 in.; Total depth of well: 25.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

Trn Number: _____
page 1 of 4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Exxon Mobil Work Phone: _____
Contact: Mrs. Debroah Ewards Home Phone: _____
Address: 2800 Decker Dr., Room NW-46
City: Baytown State: TX Zip: 77520

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 NW 1/4 1/4 Section: 7 Township: 17 Range: 35E N.M.P.M.
in Lea County County.
B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____
C. Latitude: 32 d 51 m 01.8 s Longitude: 103 d 30 m 02.0 s
D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)
E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey
F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.
G. Other: _____
H. Give State Engineer File Number if existing well: _____
I. On land owned by (required): Exxon Mobil

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: (325)893-2950
Agent: John White/Bo Atkins Home Phone: (325)893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-8

Drilling began: 01/13/05 ; Completed: 01/13/05 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 25.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____
Form: wr-20

Trn Number: _____

Trn Number: _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates

Certificate of Analysis Number:

05010502

Report To: Conestoga-Rovers & Associates
Aaron Hale
2135 South Loop 250 West

Midland
TX

79705-

ph (432) 686-0086

fax:

Project Name: Mobil State ZZ 041687

Site: Lea County, NM.

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 1/24/2005

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SB-1 9-10	05010502-01	Soil	1/12/2005 1:25:00 PM	1/15/2005 10:00:00 AM	3229	☐
SB-1 14-15	05010502-02	Soil	1/12/2005 1:30:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-1 19-20	05010502-03	Soil	1/12/2005 1:40:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-1 24-25	05010502-04	Soil	1/12/2005 1:55:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-2 9-10	05010502-05	Soil	1/12/2005 2:45:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-2 14-15	05010502-06	Soil	1/12/2005 2:40:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-2 19-20	05010502-07	Soil	1/12/2005 2:55:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-2 24-25	05010502-08	Soil	1/12/2005 3:00:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-2 29-30	05010502-09	Soil	1/12/2005 3:10:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-2 34-35	05010502-10	Soil	1/12/2005 3:35:00 PM	1/15/2005 10:00:00 AM	3929	☐
SB-3 4-5	05010502-11	Soil	1/12/2005 4:15:00 PM	1/15/2005 10:00:00 AM	3933	☐
SB-3 9-10	05010502-12	Soil	1/12/2005 4:22:00 PM	1/15/2005 10:00:00 AM	3933	☒
SB-3 14-15	05010502-13	Soil	1/12/2005 4:28:00 PM	1/15/2005 10:00:00 AM	3933	☐
SB-3 19-20	05010502-14	Soil	1/12/2005 4:33:00 PM	1/15/2005 10:00:00 AM	3933	☒
SB-3 24-25	05010502-15	Soil	1/12/2005 4:40:00 PM	1/15/2005 10:00:00 AM	3933	☐
SB-4 4-5	05010502-16	Soil	1/13/2005 7:58:00 AM	1/15/2005 10:00:00 AM	3933	☐
SB-4 9-10	05010502-17	Soil	1/13/2005 8:03:00 AM	1/15/2005 10:00:00 AM	3933	☒
SB-4 14-15	05010502-18	Soil	1/13/2005 8:07:00 AM	1/15/2005 10:00:00 AM	3933	☐
SB-4 19-20	05010502-19	Soil	1/13/2005 8:14:00 AM	1/15/2005 10:00:00 AM	3933	☒
SB-4 24-25	05010502-20	Soil	1/13/2005 8:20:00 AM	1/15/2005 10:00:00 AM	3933	☐
SB-5 4-5	05010502-21	Soil	1/13/2005 8:44:00 AM	1/15/2005 10:00:00 AM	3931	☐
SB-5 9-10	05010502-22	Soil	1/13/2005 8:56:00 AM	1/15/2005 10:00:00 AM	3931	☒
SB-5 14-15	05010502-23	Soil	1/13/2005 9:03:00 AM	1/15/2005 10:00:00 AM	3931	☐
SB-5 19-20	05010502-24	Soil	1/13/2005 9:11:00 AM	1/15/2005 10:00:00 AM	3931	☒

Sonia West

1/24/2005

Sonia West

Date

for Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates

Certificate of Analysis Number:

05010502

Report To: Conestoga-Rovers & Associates
Aaron Hale
2135 South Loop 250 West

Midland

TX

79705-

ph (432) 686-0086

fax:

Project Name: Mobil State ZZ 041687

Site: Lea County, NM.

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 1/24/2005

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SB-5 24-25	05010502-25	Soil	1/13/2005 9:23:00 AM	1/15/2005 10:00:00 AM	3931	☐
SB-6 4-5	05010502-26	Soil	1/13/2005 10:00:00 AM	1/15/2005 10:00:00 AM	3931	☐
SB-6 9-10	05010502-27	Soil	1/13/2005 10:05:00 AM	1/15/2005 10:00:00 AM	3931	☒
SB-6 14-15	05010502-28	Soil	1/13/2005 10:10:00 AM	1/15/2005 10:00:00 AM	3931	☐
SB-6 19-20	05010502-29	Soil	1/13/2005 10:16:00 AM	1/15/2005 10:00:00 AM	3931	☒
SB-6 24-25	05010502-30	Soil	1/13/2005 10:20:00 AM	1/15/2005 10:00:00 AM	3931	☐
SB-7 4-5	05010502-31	Soil	1/13/2005 1:00:00 PM	1/15/2005 10:00:00 AM	3932	☐
SB-7 9-10	05010502-32	Soil	1/13/2005 1:04:00 PM	1/15/2005 10:00:00 AM	3932	☒
SB-7 14-15	05010502-33	Soil	1/13/2005 1:09:00 PM	1/15/2005 10:00:00 AM	3932	☐
SB-7 19-20	05010502-34	Soil	1/13/2005 1:15:00 PM	1/15/2005 10:00:00 AM	3932	☒
SB-7 24-25	05010502-35	Soil	1/13/2005 1:21:00 PM	1/15/2005 10:00:00 AM	3932	☐
SB-8 4-5	05010502-36	Soil	1/13/2005 1:36:00 PM	1/15/2005 10:00:00 AM	3932	☐
SB-8 9-10	05010502-37	Soil	1/13/2005 1:41:00 PM	1/15/2005 10:00:00 AM	3932	☒
SB-8 14-15	05010502-38	Soil	1/13/2005 1:46:00 PM	1/15/2005 10:00:00 AM	3932	☐
SB-8 19-20	05010502-39	Soil	1/13/2005 1:52:00 PM	1/15/2005 10:00:00 AM	3932	☒
SB-8 24-25	05010502-40	Soil	1/13/2005 2:00:00 PM	1/15/2005 10:00:00 AM	3932	☐
TRIP BLANK 1/4/05	05010502-41	Water	1/12/2005	1/15/2005 10:00:00 AM	3932	☐
TRIP BLANK 1/5/05	05010502-42	Water	1/13/2005	1/15/2005 10:00:00 AM	3932	☐

Sonia West

1/24/2005

Sonia West
Senior Project Manager

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-1 9-10

Collected: 01/12/2005 13:25

SPL Sample ID: 05010502-01

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	130	5	1		01/20/05 2:40	CLJ	2615023
Surr: n-Pentacosane	153	% 20-154	1		01/20/05 2:40	CLJ	2615023

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	0.62	0.1	1		01/17/05 18:37	JWW	2612252
Surr: 1,4-Difluorobenzene	107	% 63-142	1		01/17/05 18:37	JWW	2612252
Surr: 4-Bromofluorobenzene	375 MI	% 50-159	1	*	01/17/05 18:37	JWW	2612252

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 13:02	CV	2616214

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	14.5	0	1		01/17/05 16:56	T_V	2612039

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/17/05 18:37	JWW	2612182
Toluene	ND	1	1		01/17/05 18:37	JWW	2612182
Ethylbenzene	ND	1	1		01/17/05 18:37	JWW	2612182
m,p-Xylene	3	1	1		01/17/05 18:37	JWW	2612182
o-Xylene	2	1	1		01/17/05 18:37	JWW	2612182
Xylenes, Total	5	1	1		01/17/05 18:37	JWW	2612182
Surr: 1,4-Difluorobenzene	101	% 77-126	1		01/17/05 18:37	JWW	2612182
Surr: 4-Bromofluorobenzene	144	% 60-160	1		01/17/05 18:37	JWW	2612182

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-1 14-15

Collected: 01/12/2005 13:30

SPL Sample ID: 05010502-02

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	7.7	5		1	01/20/05 4:44	CLJ	2615028
Surr: n-Pentacosane	96.3 %	20-154		1	01/20/05 4:44	CLJ	2615028

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1		1	01/17/05 21:10	JWW	2612255
Surr: 1,4-Difluorobenzene	102 %	63-142		1	01/17/05 21:10	JWW	2612255
Surr: 4-Bromofluorobenzene	102 %	50-159		1	01/17/05 21:10	JWW	2612255

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5		1	01/19/05 13:40	CV	2616217

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	11.4	0		1	01/17/05 16:56	T_V	2612037

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	01/17/05 21:10	JWW	2612185
Toluene	ND	1		1	01/17/05 21:10	JWW	2612185
Ethylbenzene	ND	1		1	01/17/05 21:10	JWW	2612185
m,p-Xylene	ND	1		1	01/17/05 21:10	JWW	2612185
o-Xylene	ND	1		1	01/17/05 21:10	JWW	2612185
Xylenes, Total	ND	1		1	01/17/05 21:10	JWW	2612185
Surr: 1,4-Difluorobenzene	98.1 %	77-126		1	01/17/05 21:10	JWW	2612185
Surr: 4-Bromofluorobenzene	105 %	60-160		1	01/17/05 21:10	JWW	2612185

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-1 19-20

Collected: 01/12/2005 13:40

SPL Sample ID: 05010502-03

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 5:26	CLJ	2615030
Surr: n-Pentacosane	90.4	% 20-154	1		01/20/05 5:26	CLJ	2615030

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/19/05 17:12	RLH	2615456
Surr: 1,4-Difluorobenzene	99.3	% 63-142	1		01/19/05 17:12	RLH	2615456
Surr: 4-Bromofluorobenzene	121	% 50-159	1		01/19/05 17:12	RLH	2615456

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 13:53	CV	2616218

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	8.09	0	1		01/17/05 16:56	T_V	2612036

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 23:40	JWW	2613703
Toluene	ND	1	1		01/18/05 23:40	JWW	2613703
Ethylbenzene	ND	1	1		01/18/05 23:40	JWW	2613703
m,p-Xylene	2.5	1	1		01/18/05 23:40	JWW	2613703
o-Xylene	ND	1	1		01/18/05 23:40	JWW	2613703
Xylenes, Total	2.5	1	1		01/18/05 23:40	JWW	2613703
Surr: 1,4-Difluorobenzene	99.4	% 77-126	1		01/18/05 23:40	JWW	2613703
Surr: 4-Bromofluorobenzene	143	% 60-160	1		01/18/05 23:40	JWW	2613703

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-1 24-25

Collected: 01/12/2005 13:55

SPL Sample ID: 05010502-04

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	5.5	5	1		01/20/05 6:08	CLJ	2615031
Surr: n-Pentacosane	92.3 %	20-154	1		01/20/05 6:08	CLJ	2615031

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/17/05 22:12	JWW	2612257
Surr: 1,4-Difluorobenzene	100 %	63-142	1		01/17/05 22:12	JWW	2612257
Surr: 4-Bromofluorobenzene	101 %	50-159	1		01/17/05 22:12	JWW	2612257

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 14:05	CV	2616219

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	7.77	0	1		01/17/05 16:56	T_V	2612035

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/17/05 22:12	JWW	2612187
Toluene	ND	1	1		01/17/05 22:12	JWW	2612187
Ethylbenzene	ND	1	1		01/17/05 22:12	JWW	2612187
m,p-Xylene	ND	1	1		01/17/05 22:12	JWW	2612187
o-Xylene	ND	1	1		01/17/05 22:12	JWW	2612187
Xylenes, Total	ND	1	1		01/17/05 22:12	JWW	2612187
Surr: 1,4-Difluorobenzene	98.0 %	77-126	1		01/17/05 22:12	JWW	2612187
Surr: 4-Bromofluorobenzene	105 %	60-160	1		01/17/05 22:12	JWW	2612187

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-2 9-10

Collected: 01/12/2005 14:45

SPL Sample ID: 05010502-05

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	3600	250	50		01/21/05 13:59	CLJ	2617367
Surr: n-Pentacosane	D %	20-154	50	*	01/21/05 13:59	CLJ	2617367

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	1100	100	1000		01/17/05 23:13	JWW	2612258
Surr: 1,4-Difluorobenzene	115 %	63-142	1000		01/17/05 23:13	JWW	2612258
Surr: 4-Bromofluorobenzene	445 MI %	50-159	1000	*	01/17/05 23:13	JWW	2612258

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 14:18	CV	2616220

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	16.7	0	1		01/17/05 16:56	T_V	2612034

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	7300	1000	1000		01/17/05 23:13	JWW	2612188
Toluene	90000	1000	1000		01/17/05 23:13	JWW	2612188
Ethylbenzene	83000	1000	1000		01/17/05 23:13	JWW	2612188
m,p-Xylene	46000	1000	1000		01/17/05 23:13	JWW	2612188
o-Xylene	24000	1000	1000		01/17/05 23:13	JWW	2612188
Xylenes, Total	70000	1000	1000		01/17/05 23:13	JWW	2612188
Surr: 1,4-Difluorobenzene	101 %	77-126	1000		01/17/05 23:13	JWW	2612188
Surr: 4-Bromofluorobenzene	178 MI %	60-160	1000	*	01/17/05 23:13	JWW	2612188

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-2 14-15

Collected: 01/12/2005 14:40

SPL Sample ID: 05010502-06

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	890	50	10		01/21/05 13:17	CLJ	2617366
Surr: n-Pentacosane	575 MI	% 20-154	10	*	01/21/05 13:17	CLJ	2617366

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	370	50	500		01/17/05 23:43	JWW	2612259
Surr: 1,4-Difluorobenzene	99.7	% 63-142	500		01/17/05 23:43	JWW	2612259
Surr: 4-Bromofluorobenzene	397 MI	% 50-159	500	*	01/17/05 23:43	JWW	2612259

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 14:30	CV	2616221

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	9.99	0	1		01/17/05 16:56	T_V	2612033

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	950	500	500		01/17/05 23:43	JWW	2612189
Toluene	26000	500	500		01/17/05 23:43	JWW	2612189
Ethylbenzene	30000	500	500		01/17/05 23:43	JWW	2612189
m,p-Xylene	17000	500	500		01/17/05 23:43	JWW	2612189
o-Xylene	9600	500	500		01/17/05 23:43	JWW	2612189
Xylenes, Total	26600	500	500		01/17/05 23:43	JWW	2612189
Surr: 1,4-Difluorobenzene	96.7	% 77-126	500		01/17/05 23:43	JWW	2612189
Surr: 4-Bromofluorobenzene	168 MI	% 60-160	500	*	01/17/05 23:43	JWW	2612189

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-2 19-20

Collected: 01/12/2005 14:55

SPL Sample ID: 05010502-07

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	17	5	1		01/20/05 12:17	CLJ	2616716
Surr: n-Pentacosane	109	% 20-154	1		01/20/05 12:17	CLJ	2616716

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/19/05 17:43	RLH	2615457
Surr: 1,4-Difluorobenzene	98.7	% 63-142	1		01/19/05 17:43	RLH	2615457
Surr: 4-Bromofluorobenzene	104	% 50-159	1		01/19/05 17:43	RLH	2615457

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 14:43	CV	2616222

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	9.49	0	1		01/17/05 16:56	T_V	2612032

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/19/05 0:11	JWW	2613704
Toluene	ND	1	1		01/19/05 0:11	JWW	2613704
Ethylbenzene	ND	1	1		01/19/05 0:11	JWW	2613704
m,p-Xylene	ND	1	1		01/19/05 0:11	JWW	2613704
o-Xylene	ND	1	1		01/19/05 0:11	JWW	2613704
Xylenes, Total	ND	1	1		01/19/05 0:11	JWW	2613704
Surr: 1,4-Difluorobenzene	97.4	% 77-126	1		01/19/05 0:11	JWW	2613704
Surr: 4-Bromofluorobenzene	107	% 60-160	1		01/19/05 0:11	JWW	2613704

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-2 24-25

Collected: 01/12/2005 15:00

SPL Sample ID: 05010502-08

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	15	5	1		01/20/05 12:58	CLJ	2616451
Surr: n-Pentacosane	101	% 20-154	1		01/20/05 12:58	CLJ	2616451
Prep Method	Prep Date	Prep Initials	Prep Factor				
SW3550B	01/17/2005 14:26	CEB	1.00				
GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/19/05 18:14	RLH	2615458
Surr: 1,4-Difluorobenzene	96.3	% 63-142	1		01/19/05 18:14	RLH	2615458
Surr: 4-Bromofluorobenzene	105	% 50-159	1		01/19/05 18:14	RLH	2615458
ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 14:55	CV	2616223
MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	6.53	0	1		01/17/05 16:56	T_V	2612031
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/19/05 0:41	JWW	2613705
Toluene	ND	1	1		01/19/05 0:41	JWW	2613705
Ethylbenzene	ND	1	1		01/19/05 0:41	JWW	2613705
m,p-Xylene	ND	1	1		01/19/05 0:41	JWW	2613705
o-Xylene	ND	1	1		01/19/05 0:41	JWW	2613705
Xylenes, Total	ND	1	1		01/19/05 0:41	JWW	2613705
Surr: 1,4-Difluorobenzene	97.6	% 77-126	1		01/19/05 0:41	JWW	2613705
Surr: 4-Bromofluorobenzene	107	% 60-160	1		01/19/05 0:41	JWW	2613705

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-2 29-30

Collected: 01/12/2005 15:10 SPL Sample ID: 05010502-09

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 13:40	CLJ	2615829
Surr: n-Pentacosane	108	% 20-154	1		01/20/05 13:40	CLJ	2615829

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 5:49	JWW	2612264
Surr: 1,4-Difluorobenzene	96.3	% 63-142	1		01/18/05 5:49	JWW	2612264
Surr: 4-Bromofluorobenzene	106	% 50-159	1		01/18/05 5:49	JWW	2612264

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 15:33	CV	2616226

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	10.3	0	1		01/17/05 16:56	T_V	2612030

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 5:49	JWW	2612199
Toluene	ND	1	1		01/18/05 5:49	JWW	2612199
Ethylbenzene	ND	1	1		01/18/05 5:49	JWW	2612199
m,p-Xylene	ND	1	1		01/18/05 5:49	JWW	2612199
o-Xylene	ND	1	1		01/18/05 5:49	JWW	2612199
Xylenes, Total	ND	1	1		01/18/05 5:49	JWW	2612199
Surr: 1,4-Difluorobenzene	98.8	% 77-126	1		01/18/05 5:49	JWW	2612199
Surr: 4-Bromofluorobenzene	109	% 60-160	1		01/18/05 5:49	JWW	2612199

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-2 34-35

Collected: 01/12/2005 15:35

SPL Sample ID: 05010502-10

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 14:22	CLJ	2616452
Surr: n-Pentacosane	91.8 %	20-154	1		01/20/05 14:22	CLJ	2616452

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 6:20	JWW	2612265
Surr: 1,4-Difluorobenzene	97.7 %	63-142	1		01/18/05 6:20	JWW	2612265
Surr: 4-Bromofluorobenzene	99.3 %	50-159	1		01/18/05 6:20	JWW	2612265

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 15:46	CV	2616227

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	7.97	0	1		01/17/05 16:56	T_V	2612029

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 6:20	JWW	2612200
Toluene	ND	1	1		01/18/05 6:20	JWW	2612200
Ethylbenzene	ND	1	1		01/18/05 6:20	JWW	2612200
m,p-Xylene	ND	1	1		01/18/05 6:20	JWW	2612200
o-Xylene	ND	1	1		01/18/05 6:20	JWW	2612200
Xylenes, Total	ND	1	1		01/18/05 6:20	JWW	2612200
Surr: 1,4-Difluorobenzene	98.8 %	77-126	1		01/18/05 6:20	JWW	2612200
Surr: 4-Bromofluorobenzene	106 %	60-160	1		01/18/05 6:20	JWW	2612200

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-3 4-5

Collected: 01/12/2005 16:15 SPL Sample ID: 05010502-11

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 15:03	CLJ	2616453
Surr: n-Pentacosane	95.4	% 20-154	1		01/20/05 15:03	CLJ	2616453

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 6:50	JWW	2612266
Surr: 1,4-Difluorobenzene	98.3	% 63-142	1		01/18/05 6:50	JWW	2612266
Surr: 4-Bromofluorobenzene	105	% 50-159	1		01/18/05 6:50	JWW	2612266

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 15:58	CV	2616228

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	11	0	1		01/17/05 16:56	T_V	2612028

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 6:50	JWW	2612201
Toluene	ND	1	1		01/18/05 6:50	JWW	2612201
Ethylbenzene	ND	1	1		01/18/05 6:50	JWW	2612201
m,p-Xylene	ND	1	1		01/18/05 6:50	JWW	2612201
o-Xylene	ND	1	1		01/18/05 6:50	JWW	2612201
Xylenes, Total	ND	1	1		01/18/05 6:50	JWW	2612201
Surr: 1,4-Difluorobenzene	98.2	% 77-126	1		01/18/05 6:50	JWW	2612201
Surr: 4-Bromofluorobenzene	105	% 60-160	1		01/18/05 6:50	JWW	2612201

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-3 14-15

Collected: 01/12/2005 16:28 SPL Sample ID: 05010502-13

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 15:45	CLJ	2616454
Surr: n-Pentacosane	95.7 %	20-154	1		01/20/05 15:45	CLJ	2616454

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 7:21	JWW	2612268
Surr: 1,4-Difluorobenzene	100 %	63-142	1		01/18/05 7:21	JWW	2612268
Surr: 4-Bromofluorobenzene	103 %	50-159	1		01/18/05 7:21	JWW	2612268

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 16:36	CV	2616231

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	10.7	0	1		01/17/05 16:56	T_V	2612026

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 7:21	JWW	2612202
Toluene	ND	1	1		01/18/05 7:21	JWW	2612202
Ethylbenzene	ND	1	1		01/18/05 7:21	JWW	2612202
m,p-Xylene	ND	1	1		01/18/05 7:21	JWW	2612202
o-Xylene	ND	1	1		01/18/05 7:21	JWW	2612202
Xylenes, Total	ND	1	1		01/18/05 7:21	JWW	2612202
Surr: 1,4-Difluorobenzene	97.9 %	77-126	1		01/18/05 7:21	JWW	2612202
Surr: 4-Bromofluorobenzene	107 %	60-160	1		01/18/05 7:21	JWW	2612202

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-3 24-25 Collected: 01/12/2005 16:40 SPL Sample ID: 05010502-15

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 18:31	CLJ	2616456
Surr: n-Pentacosane	89.4 %	20-154	1		01/20/05 18:31	CLJ	2616456

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 7:51	JWW	2612269
Surr: 1,4-Difluorobenzene	99.3 %	63-142	1		01/18/05 7:51	JWW	2612269
Surr: 4-Bromofluorobenzene	104 %	50-159	1		01/18/05 7:51	JWW	2612269

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 16:49	CV	2616232

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	10	0	1		01/17/05 16:56	T_V	2612025

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 7:51	JWW	2612203
Toluene	ND	1	1		01/18/05 7:51	JWW	2612203
Ethylbenzene	ND	1	1		01/18/05 7:51	JWW	2612203
m,p-Xylene	ND	1	1		01/18/05 7:51	JWW	2612203
o-Xylene	ND	1	1		01/18/05 7:51	JWW	2612203
Xylenes, Total	ND	1	1		01/18/05 7:51	JWW	2612203
Surr: 1,4-Difluorobenzene	98.3 %	77-126	1		01/18/05 7:51	JWW	2612203
Surr: 4-Bromofluorobenzene	107 %	60-160	1		01/18/05 7:51	JWW	2612203

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-4 4-5 Collected: 01/13/2005 7:58 SPL Sample ID: 05010502-16

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	7.8	5	1		01/20/05 19:13	CLJ	2616457
Surr: n-Pentacosane	94.4 %	20-154	1		01/20/05 19:13	CLJ	2616457

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 8:22	JWW	2612270
Surr: 1,4-Difluorobenzene	98.0 %	63-142	1		01/18/05 8:22	JWW	2612270
Surr: 4-Bromofluorobenzene	106 %	50-159	1		01/18/05 8:22	JWW	2612270

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 17:01	CV	2616233

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	8.18	0	1		01/17/05 16:56	T_V	2612024

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 8:22	JWW	2612204
Toluene	ND	1	1		01/18/05 8:22	JWW	2612204
Ethylbenzene	ND	1	1		01/18/05 8:22	JWW	2612204
m,p-Xylene	ND	1	1		01/18/05 8:22	JWW	2612204
o-Xylene	ND	1	1		01/18/05 8:22	JWW	2612204
Xylenes, Total	ND	1	1		01/18/05 8:22	JWW	2612204
Surr: 1,4-Difluorobenzene	99.2 %	77-126	1		01/18/05 8:22	JWW	2612204
Surr: 4-Bromofluorobenzene	109 %	60-160	1		01/18/05 8:22	JWW	2612204

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-4 14-15

Collected: 01/13/2005 8:07

SPL Sample ID: 05010502-18

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 19:54	CLJ	2616458
Surr: n-Pentacosane	88.9 %	20-154	1		01/20/05 19:54	CLJ	2616458
Prep Method	Prep Date	Prep Initials	Prep Factor				
SW3550B	01/17/2005 14:26	CEB	1.00				
GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 12:26	JWW	2613724
Surr: 1,4-Difluorobenzene	98.7 %	63-142	1		01/18/05 12:26	JWW	2613724
Surr: 4-Bromofluorobenzene	108 %	50-159	1		01/18/05 12:26	JWW	2613724
ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 17:14	CV	2616234
MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	6.06	0	1		01/17/05 16:56	T_V	2612023
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 12:26	JWW	2613684
Toluene	ND	1	1		01/18/05 12:26	JWW	2613684
Ethylbenzene	ND	1	1		01/18/05 12:26	JWW	2613684
m,p-Xylene	ND	1	1		01/18/05 12:26	JWW	2613684
o-Xylene	ND	1	1		01/18/05 12:26	JWW	2613684
Xylenes, Total	ND	1	1		01/18/05 12:26	JWW	2613684
Surr: 1,4-Difluorobenzene	98.0 %	77-126	1		01/18/05 12:26	JWW	2613684
Surr: 4-Bromofluorobenzene	105 %	60-160	1		01/18/05 12:26	JWW	2613684

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-4 24-25

Collected: 01/13/2005 8:20

SPL Sample ID: 05010502-20

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 20:36	CLJ	2616459
Surr: n-Pentacosane	86.5	% 20-154	1		01/20/05 20:36	CLJ	2616459

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 12:57	JWW	2613725
Surr: 1,4-Difluorobenzene	101	% 63-142	1		01/18/05 12:57	JWW	2613725
Surr: 4-Bromofluorobenzene	102	% 50-159	1		01/18/05 12:57	JWW	2613725

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 17:26	CV	2616235

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	7.72	0	1		01/17/05 16:56	T_V	2612022

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 12:57	JWW	2613685
Toluene	ND	1	1		01/18/05 12:57	JWW	2613685
Ethylbenzene	ND	1	1		01/18/05 12:57	JWW	2613685
m,p-Xylene	ND	1	1		01/18/05 12:57	JWW	2613685
o-Xylene	ND	1	1		01/18/05 12:57	JWW	2613685
Xylenes, Total	ND	1	1		01/18/05 12:57	JWW	2613685
Surr: 1,4-Difluorobenzene	97.8	% 77-126	1		01/18/05 12:57	JWW	2613685
Surr: 4-Bromofluorobenzene	106	% 60-160	1		01/18/05 12:57	JWW	2613685

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-5 4-5

Collected: 01/13/2005 8:44

SPL Sample ID: 05010502-21

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 21:18	CLJ	2616460
Surr: n-Pentacosane	86.1	% 20-154	1		01/20/05 21:18	CLJ	2616460

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 13:27	JWW	2613726
Surr: 1,4-Difluorobenzene	98.7	% 63-142	1		01/18/05 13:27	JWW	2613726
Surr: 4-Bromofluorobenzene	103	% 50-159	1		01/18/05 13:27	JWW	2613726

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 18:04	CV	2616238

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	15.1	0	1		01/17/05 16:56	T_V	2612021

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 13:27	JWW	2613686
Toluene	ND	1	1		01/18/05 13:27	JWW	2613686
Ethylbenzene	ND	1	1		01/18/05 13:27	JWW	2613686
m,p-Xylene	ND	1	1		01/18/05 13:27	JWW	2613686
o-Xylene	ND	1	1		01/18/05 13:27	JWW	2613686
Xylenes, Total	ND	1	1		01/18/05 13:27	JWW	2613686
Surr: 1,4-Difluorobenzene	97.9	% 77-126	1		01/18/05 13:27	JWW	2613686
Surr: 4-Bromofluorobenzene	106	% 60-160	1		01/18/05 13:27	JWW	2613686

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-5 14-15

Collected: 01/13/2005 9:03

SPL Sample ID: 05010502-23

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 21:59	CLJ	2616461
Surr: n-Pentacosane	84.1 %	20-154	1		01/20/05 21:59	CLJ	2616461

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 13:58	JWW	2613727
Surr: 1,4-Difluorobenzene	98.7 %	63-142	1		01/18/05 13:58	JWW	2613727
Surr: 4-Bromofluorobenzene	106 %	50-159	1		01/18/05 13:58	JWW	2613727

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 18:17	CV	2616239

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	9.77	0	1		01/17/05 16:56	T_V	2612020

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 13:58	JWW	2613687
Toluene	ND	1	1		01/18/05 13:58	JWW	2613687
Ethylbenzene	ND	1	1		01/18/05 13:58	JWW	2613687
m,p-Xylene	ND	1	1		01/18/05 13:58	JWW	2613687
o-Xylene	ND	1	1		01/18/05 13:58	JWW	2613687
Xylenes, Total	ND	1	1		01/18/05 13:58	JWW	2613687
Surr: 1,4-Difluorobenzene	98.0 %	77-126	1		01/18/05 13:58	JWW	2613687
Surr: 4-Bromofluorobenzene	108 %	60-160	1		01/18/05 13:58	JWW	2613687

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-5 24-25

Collected: 01/13/2005 9:23

SPL Sample ID: 05010502-25

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 22:41	CLJ	2616462
Surr: n-Pentacosane	88.5	% 20-154	1		01/20/05 22:41	CLJ	2616462

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 14:29	JWW	2613728
Surr: 1,4-Difluorobenzene	96.7	% 63-142	1		01/18/05 14:29	JWW	2613728
Surr: 4-Bromofluorobenzene	109	% 50-159	1		01/18/05 14:29	JWW	2613728

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 18:30	CV	2616240

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	9.49	0	1		01/17/05 16:56	T_V	2612019

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 14:29	JWW	2613688
Toluene	ND	1	1		01/18/05 14:29	JWW	2613688
Ethylbenzene	ND	1	1		01/18/05 14:29	JWW	2613688
m,p-Xylene	ND	1	1		01/18/05 14:29	JWW	2613688
o-Xylene	ND	1	1		01/18/05 14:29	JWW	2613688
Xylenes, Total	ND	1	1		01/18/05 14:29	JWW	2613688
Surr: 1,4-Difluorobenzene	98.1	% 77-126	1		01/18/05 14:29	JWW	2613688
Surr: 4-Bromofluorobenzene	106	% 60-160	1		01/18/05 14:29	JWW	2613688

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-6 4-5

Collected: 01/13/2005 10:00

SPL Sample ID: 05010502-26

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/20/05 23:22	CLJ	2616463
Surr: n-Pentacosane	87.3	% 20-154	1		01/20/05 23:22	CLJ	2616463

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/17/2005 14:26	CEB	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 14:59	JWW	2613729
Surr: 1,4-Difluorobenzene	98.0	% 63-142	1		01/18/05 14:59	JWW	2613729
Surr: 4-Bromofluorobenzene	101	% 50-159	1		01/18/05 14:59	JWW	2613729

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	170	5	1		01/19/05 18:42	CV	2616241

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 14:59	JWW	2613689
Toluene	ND	1	1		01/18/05 14:59	JWW	2613689
Ethylbenzene	ND	1	1		01/18/05 14:59	JWW	2613689
m,p-Xylene	ND	1	1		01/18/05 14:59	JWW	2613689
o-Xylene	ND	1	1		01/18/05 14:59	JWW	2613689
Xylenes, Total	ND	1	1		01/18/05 14:59	JWW	2613689
Surr: 1,4-Difluorobenzene	98.1	% 77-126	1		01/18/05 14:59	JWW	2613689
Surr: 4-Bromofluorobenzene	105	% 60-160	1		01/18/05 14:59	JWW	2613689

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-6 14-15 Collected: 01/13/2005 10:10 SPL Sample ID: 05010502-28

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/21/05 3:32	CLJ	2616430
Surr: n-Pentacosane	96.7 %	20-154	1		01/21/05 3:32	CLJ	2616430

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 15:30	JWW	2613730
Surr: 1,4-Difluorobenzene	96.7 %	63-142	1		01/18/05 15:30	JWW	2613730
Surr: 4-Bromofluorobenzene	100 %	50-159	1		01/18/05 15:30	JWW	2613730

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	37	5	1		01/19/05 18:55	CV	2616242

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	7.61	0	1		01/17/05 16:56	T_V	2612018

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 15:30	JWW	2613690
Toluene	ND	1	1		01/18/05 15:30	JWW	2613690
Ethylbenzene	ND	1	1		01/18/05 15:30	JWW	2613690
m,p-Xylene	ND	1	1		01/18/05 15:30	JWW	2613690
o-Xylene	ND	1	1		01/18/05 15:30	JWW	2613690
Xylenes, Total	ND	1	1		01/18/05 15:30	JWW	2613690
Surr: 1,4-Difluorobenzene	98.0 %	77-126	1		01/18/05 15:30	JWW	2613690
Surr: 4-Bromofluorobenzene	106 %	60-160	1		01/18/05 15:30	JWW	2613690

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-6 24-25 Collected: 01/13/2005 10:20 SPL Sample ID: 05010502-30

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	6.9	5	1		01/21/05 4:14	CLJ	2616431
Surr: n-Pentacosane	100	% 20-154	1		01/21/05 4:14	CLJ	2616431

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 18:03	JWW	2613733
Surr: 1,4-Difluorobenzene	99.0	% 63-142	1		01/18/05 18:03	JWW	2613733
Surr: 4-Bromofluorobenzene	104	% 50-159	1		01/18/05 18:03	JWW	2613733

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	17	5	1		01/19/05 19:33	CV	2616245

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	9.43	0	1		01/17/05 16:56	T_V	2612017

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 18:03	JWW	2613694
Toluene	ND	1	1		01/18/05 18:03	JWW	2613694
Ethylbenzene	ND	1	1		01/18/05 18:03	JWW	2613694
m,p-Xylene	ND	1	1		01/18/05 18:03	JWW	2613694
o-Xylene	ND	1	1		01/18/05 18:03	JWW	2613694
Xylenes, Total	ND	1	1		01/18/05 18:03	JWW	2613694
Surr: 1,4-Difluorobenzene	98.3	% 77-126	1		01/18/05 18:03	JWW	2613694
Surr: 4-Bromofluorobenzene	106	% 60-160	1		01/18/05 18:03	JWW	2613694

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-7 4-5

Collected: 01/13/2005 13:00

SPL Sample ID: 05010502-31

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/21/05 4:55	CLJ	2616432
Surr: n-Pentacosane	96.5 %	20-154	1		01/21/05 4:55	CLJ	2616432

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 18:34	JWW	2613734
Surr: 1,4-Difluorobenzene	97.0 %	63-142	1		01/18/05 18:34	JWW	2613734
Surr: 4-Bromofluorobenzene	100 %	50-159	1		01/18/05 18:34	JWW	2613734

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 19:45	CV	2616246

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	8.98	0	1		01/17/05 16:56	T_V	2612015

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 18:34	JWW	2613695
Toluene	ND	1	1		01/18/05 18:34	JWW	2613695
Ethylbenzene	ND	1	1		01/18/05 18:34	JWW	2613695
m,p-Xylene	ND	1	1		01/18/05 18:34	JWW	2613695
o-Xylene	ND	1	1		01/18/05 18:34	JWW	2613695
Xylenes, Total	ND	1	1		01/18/05 18:34	JWW	2613695
Surr: 1,4-Difluorobenzene	98.4 %	77-126	1		01/18/05 18:34	JWW	2613695
Surr: 4-Bromofluorobenzene	104 %	60-160	1		01/18/05 18:34	JWW	2613695

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-7 14-15

Collected: 01/13/2005 13:09

SPL Sample ID: 05010502-33

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/21/05 5:37	CLJ	2616433
Surr: n-Pentacosane	98.9	% 20-154	1		01/21/05 5:37	CLJ	2616433

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/18/05 19:04	JWW	2613735
Surr: 1,4-Difluorobenzene	97.3	% 63-142	1		01/18/05 19:04	JWW	2613735
Surr: 4-Bromofluorobenzene	103	% 50-159	1		01/18/05 19:04	JWW	2613735

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 21:01	CV	2616251

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	6.78	0	1		01/17/05 16:56	T_V	2612014

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 19:04	JWW	2613696
Toluene	ND	1	1		01/18/05 19:04	JWW	2613696
Ethylbenzene	ND	1	1		01/18/05 19:04	JWW	2613696
m,p-Xylene	ND	1	1		01/18/05 19:04	JWW	2613696
o-Xylene	ND	1	1		01/18/05 19:04	JWW	2613696
Xylenes, Total	ND	1	1		01/18/05 19:04	JWW	2613696
Surr: 1,4-Difluorobenzene	97.4	% 77-126	1		01/18/05 19:04	JWW	2613696
Surr: 4-Bromofluorobenzene	106	% 60-160	1		01/18/05 19:04	JWW	2613696

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-7 24-25

Collected: 01/13/2005 13:21 SPL Sample ID: 05010502-35

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/21/05 6:19	CLJ	2616434
Surr: n-Pentacosane	101	% 20-154	1		01/21/05 6:19	CLJ	2616434

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/19/05 18:44	RLH	2615460
Surr: 1,4-Difluorobenzene	98.0	% 63-142	1		01/19/05 18:44	RLH	2615460
Surr: 4-Bromofluorobenzene	108	% 50-159	1		01/19/05 18:44	RLH	2615460

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 21:13	CV	2616252

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	6.85	0	1		01/17/05 16:56	T_V	2612013

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 21:07	JWW	2613699
Toluene	ND	1	1		01/18/05 21:07	JWW	2613699
Ethylbenzene	ND	1	1		01/18/05 21:07	JWW	2613699
m,p-Xylene	ND	1	1		01/18/05 21:07	JWW	2613699
o-Xylene	ND	1	1		01/18/05 21:07	JWW	2613699
Xylenes, Total	ND	1	1		01/18/05 21:07	JWW	2613699
Surr: 1,4-Difluorobenzene	97.7	% 77-126	1		01/18/05 21:07	JWW	2613699
Surr: 4-Bromofluorobenzene	107	% 60-160	1		01/18/05 21:07	JWW	2613699

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-8 4-5

Collected: 01/13/2005 13:36

SPL Sample ID: 05010502-36

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/21/05 7:00	CLJ	2616435
Surr: n-Pentacosane	122 %	20-154	1		01/21/05 7:00	CLJ	2616435

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/19/05 19:15	RLH	2615461
Surr: 1,4-Difluorobenzene	94.7 %	63-142	1		01/19/05 19:15	RLH	2615461
Surr: 4-Bromofluorobenzene	105 %	50-159	1		01/19/05 19:15	RLH	2615461

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 21:26	CV	2616253

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	9.32	0	1		01/17/05 16:56	T_V	2612012

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 21:37	JWW	2613700
Toluene	ND	1	1		01/18/05 21:37	JWW	2613700
Ethylbenzene	ND	1	1		01/18/05 21:37	JWW	2613700
m,p-Xylene	ND	1	1		01/18/05 21:37	JWW	2613700
o-Xylene	ND	1	1		01/18/05 21:37	JWW	2613700
Xylenes, Total	ND	1	1		01/18/05 21:37	JWW	2613700
Surr: 1,4-Difluorobenzene	98.0 %	77-126	1		01/18/05 21:37	JWW	2613700
Surr: 4-Bromofluorobenzene	108 %	60-160	1		01/18/05 21:37	JWW	2613700

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-8 14-15

Collected: 01/13/2005 13:46

SPL Sample ID: 05010502-38

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/21/05 10:30	CLJ	2617330
Surr: n-Pentacosane	103	% 20-154	1		01/21/05 10:30	CLJ	2617330

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/19/05 19:46	RLH	2615462
Surr: 1,4-Difluorobenzene	97.3	% 63-142	1		01/19/05 19:46	RLH	2615462
Surr: 4-Bromofluorobenzene	108	% 50-159	1		01/19/05 19:46	RLH	2615462

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	ND	5	1		01/19/05 21:38	CV	2616254

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	7.64	0	1		01/17/05 16:56	T_V	2612011

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 22:08	JWW	2613701
Toluene	ND	1	1		01/18/05 22:08	JWW	2613701
Ethylbenzene	ND	1	1		01/18/05 22:08	JWW	2613701
m,p-Xylene	ND	1	1		01/18/05 22:08	JWW	2613701
o-Xylene	ND	1	1		01/18/05 22:08	JWW	2613701
Xylenes, Total	ND	1	1		01/18/05 22:08	JWW	2613701
Surr: 1,4-Difluorobenzene	97.2	% 77-126	1		01/18/05 22:08	JWW	2613701
Surr: 4-Bromofluorobenzene	107	% 60-160	1		01/18/05 22:08	JWW	2613701

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SB-8 24-25 Collected: 01/13/2005 14:00 SPL Sample ID: 05010502-40

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Diesel Range Organics (C10-C28)	ND	5	1		01/21/05 11:12	CLJ	2617331
Surr: n-Pentacosane	106	% 20-154	1		01/21/05 11:12	CLJ	2617331

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2005 11:32	SMA	1.00

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/kg		
Gasoline Range Organics	ND	0.1	1		01/19/05 20:17	RLH	2615463
Surr: 1,4-Difluorobenzene	97.7	% 63-142	1		01/19/05 20:17	RLH	2615463
Surr: 4-Bromofluorobenzene	108	% 50-159	1		01/19/05 20:17	RLH	2615463

ION CHROMATOGRAPHY			MCL	E300 MOD	Units: mg/kg		
Chloride	5	5	1		01/19/05 21:51	CV	2616255

MOISTURE - ASTM			MCL	D2216	Units: %		
Percent Moisture	7.71	0	1		01/17/05 16:56	T_V	2612010

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		01/18/05 22:39	JWW	2613702
Toluene	ND	1	1		01/18/05 22:39	JWW	2613702
Ethylbenzene	ND	1	1		01/18/05 22:39	JWW	2613702
m,p-Xylene	ND	1	1		01/18/05 22:39	JWW	2613702
o-Xylene	ND	1	1		01/18/05 22:39	JWW	2613702
Xylenes, Total	ND	1	1		01/18/05 22:39	JWW	2613702
Surr: 1,4-Difluorobenzene	97.2	% 77-126	1		01/18/05 22:39	JWW	2613702
Surr: 4-Bromofluorobenzene	105	% 60-160	1		01/18/05 22:39	JWW	2613702

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TRIP BLANK 1/4/05

Collected: 01/12/2005 0:00

SPL Sample ID: 05010502-41

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	1	1		01/21/05 15:29	DMN	2617675
Toluene	ND	1	1		01/21/05 15:29	DMN	2617675
Ethylbenzene	ND	1	1		01/21/05 15:29	DMN	2617675
m,p-Xylene	ND	1	1		01/21/05 15:29	DMN	2617675
o-Xylene	ND	1	1		01/21/05 15:29	DMN	2617675
Xylenes, Total	ND	1	1		01/21/05 15:29	DMN	2617675
Surr: 1,4-Difluorobenzene	105 %	39-163	1		01/21/05 15:29	DMN	2617675
Surr: 4-Bromofluorobenzene	102 %	57-157	1		01/21/05 15:29	DMN	2617675

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TRIP BLANK 1/5/05 Collected: 01/13/2005 0:00 SPL Sample ID: 05010502-42

Site: Lea County, NM.

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	1	1		01/21/05 15:57	DMN	2617676
Toluene	ND	1	1		01/21/05 15:57	DMN	2617676
Ethylbenzene	ND	1	1		01/21/05 15:57	DMN	2617676
m,p-Xylene	ND	1	1		01/21/05 15:57	DMN	2617676
o-Xylene	ND	1	1		01/21/05 15:57	DMN	2617676
Xylenes, Total	ND	1	1		01/21/05 15:57	DMN	2617676
Surr: 1,4-Difluorobenzene	106	% 39-163	1		01/21/05 15:57	DMN	2617676
Surr: 4-Bromofluorobenzene	103	% 57-157	1		01/21/05 15:57	DMN	2617676

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

EXXONMOBIL

SPL WORKORDER NO. 3929

Page 1 of 5

ExxonMobil Engineer: Deborah Edwards Phone: 432-686-0086
 Consultant Co. Name: CRA (formerly BNC) Contact: Anon Hale
 Address: 2135 S. Loop 280 West Fax: 432-686-0186
Midland, Texas 79703 ahale@craworld.com
 RAS #: _____ Facility/State ID# (TN Only): _____
 AFE# (Terminal Only): _____ Consultant Project #: 041687
 Location: Mobil State Z.Z. (City) Lea County (State) New Mexico
☐ EE ☐ C&M ☐ SDT
 0160 ExxonMobil Oil Corp ☐
 0614 ExxonMobil Pipeline Co. ☐
 Purchase Order No.: 4505344212 0944 ExxonMobil Marketing & Ref. Co. ☐
 0231 Mobil Oil Pipeline Co. ☒

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX	OTHER	PRESERVATIVE
					H ₂ O SOIL AIR		
SB-10 (9-10)	1-12-05	1325		X	X		ICE
SB-10 (14-15)	1-12-05	1330		X	X		ICE
SB-10 (19-20)	1-12-05	1340		X	X		ICE
SB-10 (24-25)	1-12-05	1355		X	X		ICE
SB-20 (9-10)	1-12-05	1415		X	X		ICE
SB-20 (14-15)	1-12-05	1450		X	X		ICE
SB-20 (19-20)	1-12-05	1455		X	X		ICE
SB-20 (24-25)	1-12-05	1500		X	X		ICE
SB-20 (29-30)	1-12-05	1510		X	X		ICE
SB-20 (34-35)	1-12-05	1535		X	X		ICE

TAT (* - Contact us Prior to Sending Samples)

24 HR. * 48 HR. *
 72 HR. * 5 BUS. *
 8 BUS. 10 BUS. X
 15 BUS. 30 BUS.

QA/QC Level

STANDARD "A"
 ENHANCED "B"
 FULL DATA "C"
 TRRP DATA "C"

Relinquished By Sampler: [Signature]

Relinquished:

Relinquished

CUSTODY RECORD

Date	Time	Received By:
1-14-05	1340	
Date	Time	Received By:
1-15-04	1100	<u>[Signature]</u>

REMARKS:

EXXONMOBIL CONTRACT NO. C57160

Way Bill #:

Cooler Temp: 3.0

EXXONMOBIL

SPL WORKORDER NO. 3933

Page 2 of 5

ExxonMobil Engineer: Deborah Edwards Phone: 432-686-0086
 Consultant Co. Name: CRA Contact: Aaron Hale
 Address: 2135 S. Loop 250 West Fax: 432-686-0086
Midland Texas
 RAS #: _____ Facility/State ID#(TN Only): _____
 AFE#(Terminal Only): _____ Consultant Project #: 041687
 Location: Mobil State ZZ (City) Lee County (State) N.M.
☐ EE 0160 ExxonMobil Oil Corp ☐ C&M 0944 ExxonMobil Marketing & Ref. Co. ☐ SDT
 0614 ExxonMobil Pipeline Co. ☐ 0231 Mobil Oil Pipeline Co. ☒
 Purchase Order No.: See page 1/5

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX	OTHER PRESERVATIVE
					H ₂ O SOIL AIR	
SB-3C (4-5)	1-12-05	1615		X	X	ICE
SB-3C (9-10)	1-12-05	1622		X	X	ICE
SB-3C (14-15)	1-12-05	1628		X	X	ICE
SB-3C (19-20)	1-12-05	1633		X	X	ICE
SB-3C (24-25)	1-12-05	1640		X	X	ICE
SB-4C (4-5)	1-13-05	0758		X	X	ICE
SB-4C (9-10)	1-13-05	0803		X	X	ICE
SB-4C (14-15)	1-13-05	0807		X	X	ICE
SB-4C (19-20)	1-13-05	0814		X	X	ICE
SB-4C (24-25)	1-13-05	0820		X	X	ICE

TAT (* - Contact us Prior to Sending Samples)

24 HR. * 48 HR. *
 72 HR. * 5 BUS. *
 8 BUS. 10 BUS. ✓
 15 BUS. 30 BUS.

SPECIAL DETECTION LIMITS (Specify)

STANDARD "A"
 ENHANCED "B"
 FULL DATA "C"
 TRRP DATA "C"

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ EDD ☐

Relinquished By Sampler: [Signature]

Relinquished:

Relinquished

Date 1-14-05 Time 1340

Date _____ Time _____

Date 1-15-05 Time 1400

Date _____ Time _____

Received By:

Received By:

Received By: [Signature]

Received By:

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

TPH/GC 8015 GROW 8015 DRO ☒	BTEX 8021 ☒ 602 ☒	MTBE 8021 ☐ 8260 ☐	OXYGENATES (?) 8260 ☐	O&G IR 413.1 ☐ GRAV. 413.2 ☐ 1664 ☐	VOL. 8260 ☐ 624 ☐	SEM-VOL. 8270 ☐ 625 ☐	PNA/PAH 8100 ☐ 8310 ☐ 8270 ☐	PCB/PEST 8081/8082 ☐ PCB ONLY ☐	TCLP FULL ☐ VOA ☐ SEMI-VOA ☐ PEST ☐ HERB ☐	METALS TOTAL RCRA ☐ METALS TCLP ☐	PB, TOTAL 200.7 ☐ 6010 ☐ PB, TCLP ☐	PB, DISSOLVED ☐ PB, TOTAL ☐ (200.7/6010)	REACTIVITY ☐ CORROSIVITY ☐ FLASHPOINT ☐	PURGEABLE HYDROCARBON 8021 ☐ 601 ☐	TPHH/IR 418.1 ☐	TOX/TOH ☐	Chlorides ☐	Hold ☐
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REMARKS:

EXXONMOBIL CONTRACT NO. C57160

Way Bill #:

Cooler Temp: 3.0°C

CUSTODY RECORD

EXXONMOBIL

SPL WORKORDER NO. 3932

Page 4 of 5

ExxonMobil Engineer: Deborah Edwards Phone: 432-686-0086
 Consultant Co. Name: CRA Contact: Aaron Hale
 Address: 2135 S. Loop 250 W. Fax: 432-686-0186
Midland Texas 79703
 RAS #: _____ Facility/State ID#(TN Only): _____
 AFE#(Terminal Only): _____ Consultant Project #: 041687
 Location: Mobil State 22 (City) Lea County (State) NM
☐ EE 0160 ExxonMobil Oil Corp ☐ C&M 0944 ExxonMobil Marketing & Ref. Co. ☐ SDT
☐ 0614 ExxonMobil Pipeline Co. ☒ 0231 Mobil Oil Pipeline Co.
 Purchase Order No.: See Page 1/5

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX	OTHER	PRESERVATIVE
					H ₂ O SOIL AIR		
SB-7 C (4-5)	1-13-05	1300		X	X		ICE
SB-7 C (9-10)	1-13-05	1304		X	X		ICE
SB-7 C (14-15)	1-13-05	1309		X	X		ICE
SB-7 C (19-20)	1-13-05	1315		X	X		ICE
SB-7 C (24-25)	1-13-05	1321		X	X		ICE
SB-8 C (4-5)	1-13-05	1336		X	X		ICE
SB-8 C (9-10)	1-13-05	1341		X	X		ICE
SB-8 C (14-15)	1-13-05	1346		X	X		ICE
SB-8 C (19-20)	1-13-05	1352		X	X		ICE
SB-8 C (24-25)	1-13-05	1400		X	X		ICE

TAT (* - Contact us Prior to Sending Samples)

24 HR. * 48 HR. *
 72 HR. * 5 BUS. *
 8 BUS. 10 BUS. X
 15 BUS. 30 BUS.

QA/QC Level

STANDARD "A"
 ENHANCED "B"
 FULL DATA "C"
 TRRP DATA "C"

Relinquished By Sampler: [Signature]

Relinquished:

Relinquished

CUSTODY RECORD

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

☒ TPH/GC 8015 GRO 8015 DROX	☒ BTEX 8021	☒ MTBE 8021	☒ OXYGENATES (?) 8260	☒ O&G IR 413.1	☒ GRAV. 413.2	☒ 1664	☒ VOL. 8260	☒ 624	☒ SEMI-VOL. 8270	☒ 8310	☒ 8270	☒ PCB/PEST 8081/8082	☒ PCB ONLY	☒ TCLP FULL	☒ VOA	☒ SEMI-VOA	☒ PEST	☒ HERB	☒ METALS, TOTAL RCRA	☒ METALS TCLP	☒ PB, TOTAL 200.7	☒ 6010	☒ PB, TCLP	☒ PB, DISSOLVED	☒ PB, TOTAL	☒ (200.7/6010)	☒ REACTIVITY	☒ CORROSIVITY	☒ FLASHPOINT	☒ PURGEABLE HYDROCARBON	☒ 8021	☒ 601	☒ TPHH/IR 418.1	☒ TOX/TOH	☒ Chlorides	☒ Held
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REMARKS:

EXXONMOBIL CONTRACT NO. C57160

Way Bill #:

Cooler Temp. 3.0

Received By:

Time

Date

1-14-05

1340

Received By:

Time

Date

1-15-05

1000

Received By:

Time

Date

1-15-05

1000

05010502

EXXONMOBIL

SPL WORKORDER NO. 3934

Page 5 of 5

ExxonMobil Engineer: Deborah Edwards
Phone: 432-686-0086
Consultant Co. Name: CRA
Contact: Aaron Hale
Address: 2135 S. Loop 250 W.
Midland, Texas 79703
Fax: 432-686-0186
RAS #: _____
Facility/State ID#(TN Only): _____
AFE#(Terminal Only): _____
Consultant Project #: 041687
Location: Mobil State 22 (City) Lee Co. (State) N.M.
☐ EE ☐ C&M 0944 ExxonMobil Marketing & Ref. Co. ☐ SDT
0614 ExxonMobil Pipeline Co. ☐ 0231 Mobil Oil Pipeline Co. ☒
Purchase Order No.: See Page 1/5

ANALYSIS REQUEST:
(CHECK APPROPRIATE BOX)

TPH/GC 8015 GRO ☐ 8015 DRO ☐

BTX 8021 ☒ 602 ☐

MTBE 8021 ☐ 8260 ☐

OXYGENATES (?) 8260 ☐

O&G IR 413.1 ☐ GRAV. 413.2 ☐ 1664 ☐

VOL. 8260 ☐ 624 ☐

SEMI-VOL. 8270 ☐ 8310 ☐ 8270 ☐

PNA/PAH 8100 ☐ 8310 ☐ 8270 ☐

PCB/PEST 8081/8082 ☐ PCB ONLY ☐

TCLP FULL ☐ VOA ☐ SEMI-VOA ☐ PEST ☐ HERB ☐

METALS, TOTAL RCRA ☐ METALS TCLP ☐

PB, TOTAL 200.7 ☐ 6010 ☐ PB, TCLP ☐

PB, DISSOLVED ☐ PB, TOTAL ☐ (200.7/6010)

REACTIVITY ☐ CORROSIVITY ☐ FLASHPOINT ☐

PURGEABLE HYDROCARBON 8021 ☐ 601 ☐

TPH/HIR 418.1 ☐

TOX/TOH ☐

Temperature

NO. OF CONTAINERS

CONTAINER SIZE

TPH/GC 8015 GRO ☐ 8015 DRO ☐

BTX 8021 ☒ 602 ☐

MTBE 8021 ☐ 8260 ☐

OXYGENATES (?) 8260 ☐

O&G IR 413.1 ☐ GRAV. 413.2 ☐ 1664 ☐

VOL. 8260 ☐ 624 ☐

SEMI-VOL. 8270 ☐ 8310 ☐ 8270 ☐

PNA/PAH 8100 ☐ 8310 ☐ 8270 ☐

PCB/PEST 8081/8082 ☐ PCB ONLY ☐

TCLP FULL ☐ VOA ☐ SEMI-VOA ☐ PEST ☐ HERB ☐

METALS, TOTAL RCRA ☐ METALS TCLP ☐

PB, TOTAL 200.7 ☐ 6010 ☐ PB, TCLP ☐

PB, DISSOLVED ☐ PB, TOTAL ☐ (200.7/6010)

REACTIVITY ☐ CORROSIVITY ☐ FLASHPOINT ☐

PURGEABLE HYDROCARBON 8021 ☐ 601 ☐

TPH/HIR 418.1 ☐

TOX/TOH ☐

Temperature

TAT (* - Contact us Prior to Sending Samples)

24 HR. * 48 HR. *
72 HR. * 5 BUS. *
8 BUS. 10 BUS. X
15 BUS. 30 BUS.

QA/QC Level
STANDARD "A"
ENHANCED "B"
FULL DATA "C"
TRRP DATA "C"

Relinquished By Sampler: [Signature]
Relinquished:
Relinquished

CUSTODY RECORD

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ EDD ☐

Way Bill #: _____ Cooler Temp: 3.0°

EXXONMOBIL CONTRACT NO. C57160

REMARKS:

Triplicate: Original * White Lab's Copy * Green Client Copy * Yellow