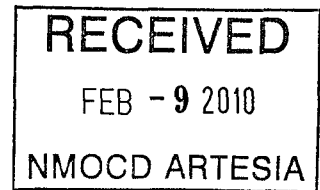


Basin Environmental Service Technologies, LLC

2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
estaylor@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429



INITIAL SITE ASSESSMENT AND SOIL CLOSURE PROPOSAL



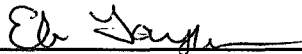
**MEWBOURNE OIL COMPANY
STATE JL 36 BATTERY
Eddy County, New Mexico
UNIT O (SW/SE), Section 36, Township 18 South, Range 29 East**

Prepared For:

Mewbourne Oil Company
701 E. Cecil
Hobbs, New Mexico 88241

Prepared By:
Basin Environmental Service Technologies, LLC

February 2010



Eb Taylor

February 3, 2010

Sherry Bonham
1301 W. Grand Avenue
Artesia, New Mexico 88210

Re: Mewbourne Oil Company State JL 36 Battery Release

Dear Ms. Bonham,

Basin Environmental Service Technologies, LLC (Basin), on behalf of Mewbourne Oil Company (Mewbourne), is pleased to submit this Initial Site Assessment and Soil Closure Proposal to the New Mexico Oil Conservation Division (NMOCD) for your review and approval.

The release site is located in (Unit Letter "O"), Section 36, Township 18 South, Range 29 East, Eddy County, New Mexico. The surface property and the mineral interest is owned by the State of New Mexico and administered by the New Mexico State Land Office. The State JL 36 Battery release was contained inside the firewalls of the separator containment. A site location map and site map are attached as Attachment A and B, respectively. The date of the release was November 26, 2009 and was discovered at approximately 8:00 AM on November 27, 2009. The release volume was approximately 4 barrels (bbls) with approximately 4 bbls recovered. Donald Gray with New Mexico Oil Conservation Division District II was notified of the release. An Initial Release Notification and Corrective Action (Form C-141) is attached (Attachment C) for your approval, as Attachment C.

A search of the New Mexico Office of the State Engineer water well database has no information on Section 36, Township 18 South and Range 29 East for water wells or depth to groundwater. A groundwater reference map utilized by the NMOCD indicated water should be encountered at approximately one hundred fifty (150) feet below ground surface (bgs) in Section 36, Township 18 South and Range 29 East. According the NMOCD soil ranking classification, the depth to groundwater at the release site exceeds 100 feet bgs, resulting in a ranking score of zero (0). The distance to the nearest wellhead protection area exceeds 1,000 feet, resulting in a ranking score of zero (0), the distance to the nearest surface water body exceeds 1,000 feet, resulting in a ranking score of zero (0). The *Guidelines for Remediation of Leaks, Spills and Releases*, (NMOCD 1993), indicates the State JL 36 Battery release site has a total ranking score of zero (0). The clean up criteria for a release site with a ranking score of zero (0) are:

Benzene:	10 mg/Kg (ppm)
BTEX:	50 mg/Kg (ppm)
TPH:	5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a clean up level for chloride concentrations in soil; generally the NMOCD requires a chloride clean up level of 250 kg/Kg for chloride impacted soil.

On December 7, 2009, a representative of Basin visited the release site to conduct an initial site assessment of the hydrocarbon impacted area. Basin observed inside the containment area that the surface was stained with hydrocarbons. The release point area had been excavated to a depth of approximately four (4) feet bgs and the excavated material had been stockpiled on site. The containment area for the separator measures approximately fifty feet (50) by fifty five (55) feet.

On December 11, 2009, Basin conducted an initial soil investigation at the site. A backhoe was utilized to excavate test trenches on the outer perimeter of the containment area and one at the release point. The test trenches were excavated to a depth of twelve (12) feet bgs. Soil samples were collected at four (4) feet, eight (8) feet and twelve (12) feet bgs and field screened for chloride concentrations. One background sample was collected off the location to the southwest.

Select soil samples collected from the test trenches were submitted to Cardinal Laboratory in Hobbs, New Mexico. The soil samples were analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) using EPA method 8021b, concentration of total petroleum hydrocarbons (TPH) using SW8015M, and concentrations of chloride using SM4500-CL.

The analytical results indicated the soil sample collected from Trench #1 – eight (8) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 486 mg/Kg. The analytical results indicate the chloride concentration exceeded the NMOCD regulatory cleanup standards for this soil sample.

The analytical results indicated the soil sample collected from Trench #2 – eight (8) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 2,120 mg/Kg. The soil sample collected from trench #2 at (12) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 1,020 mg/Kg. The analytical results indicate the chloride concentration exceeded the NMOCD regulatory cleanup standards for these soil samples.

The analytical results indicated the soil sample collected from Trench #3 – four (4) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 1,880 mg/Kg. The soil sample collected from trench #3 at twelve (12) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 462 mg/Kg. The analytical results indicate the chloride concentration exceeded the NMOCD regulatory cleanup standards for these soil samples.

The analytical results indicated the soil sample collected from Trench #4 – eight (8) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 92.3 mg/Kg. The soil sample collected from trench four at twelve feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 88.5 mg/Kg. The analytical results indicate the TPH, BTEX, and chloride concentrations meet the NMOCD regulatory cleanup standards for these soil samples.

The analytical results indicated the soil sample collected from the release point – eight (8) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 4,240 mg/Kg. The soil sample collected from the release point at twelve (12) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 2,650 mg/Kg. The analytical results indicate the chloride concentration exceeded the NMOCD regulatory cleanup standards for these soil samples.

The analytical results indicate the background soil sample collected from – four (4) feet bgs exhibited a benzene concentration of <0.0200 mg/Kg, a BTEX concentration of <0.0200 mg/Kg, a TPH concentration of <50.0 mg/Kg and a chloride concentration of 88.5 mg/Kg. The analytical results indicate the chloride concentration is below the NMOCD regulatory cleanup standards for this soil sample. The analytical results indicated the TPH, BTEX, and chloride concentrations meet the NMOCD regulatory cleanup standards for this soil sample.

Based on the analytical results, Attachment D, four areas require additional excavation. The excavation extents will be determined through analytical soil sampling. The excavation of impacted soil will continue until confirmation soil sampling indicates the excavation sidewalls and floor exhibit chloride concentrations below the NMOCD clean up levels. Confirmation soil samples will be collected from each sidewall and the floor of the excavation. All impacted soil that is removed will be disposed of at a NMOCD approved disposal facility.

Following the excavation of impacted soil and in receipt of confirmation soil samples, indicating the excavation sidewalls and floor are below NMOCD guidelines, Mewbourne will request permission from the NMOCD to backfill the excavation with locally purchased, non-impacted soil.

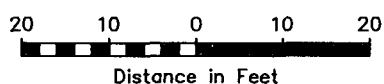
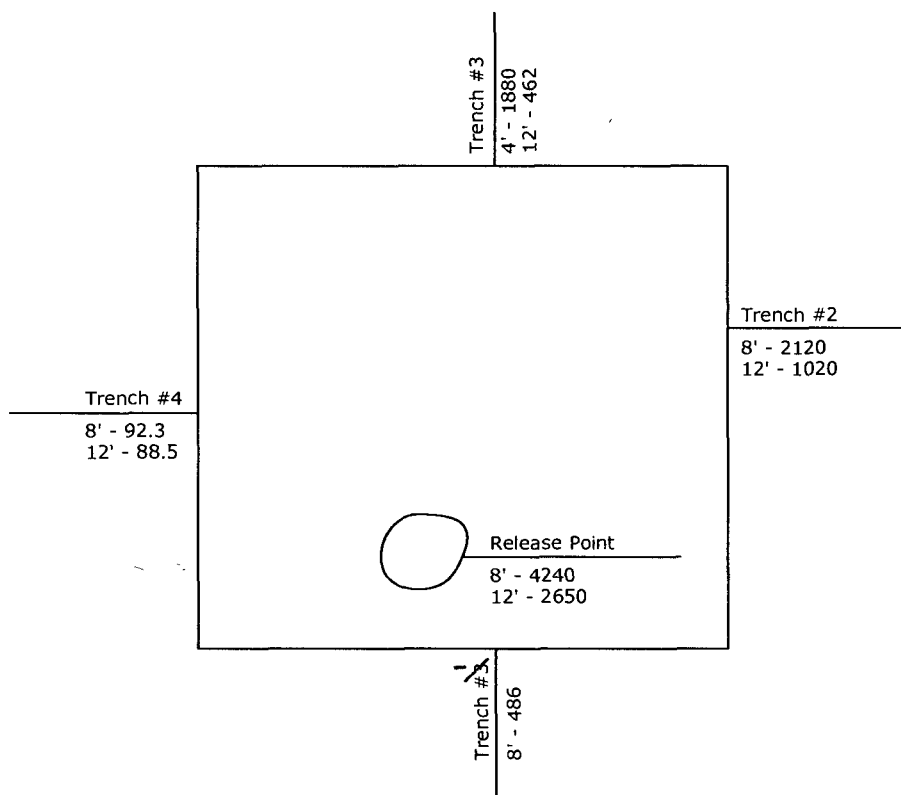
On completion of the excavation and backfilling activities Mewbourne will submit a site closure request to the NMOCD, documenting the NMOCD approved remediation activities.

Basin Environmental Service Technologies, LLC, has prepared this Initial Site Assessment and Soil Closure Proposal to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Mewbourne Oil Company. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and Mewbourne Oil Company.

Should you have any questions or comments, please contact me at (575) 408-3130.



LEGEND:

Figure 2
Site Map
Mewbourne Oil
State JL 36 Tank Battery
Eddy County, NM

Basin Environmental Services

Scale 1" = 20'	Drawn By CDS	Prepared By CDS
February 4, 2010		

Sincerely,

A handwritten signature in black ink, appearing to read "Eb Taylor".

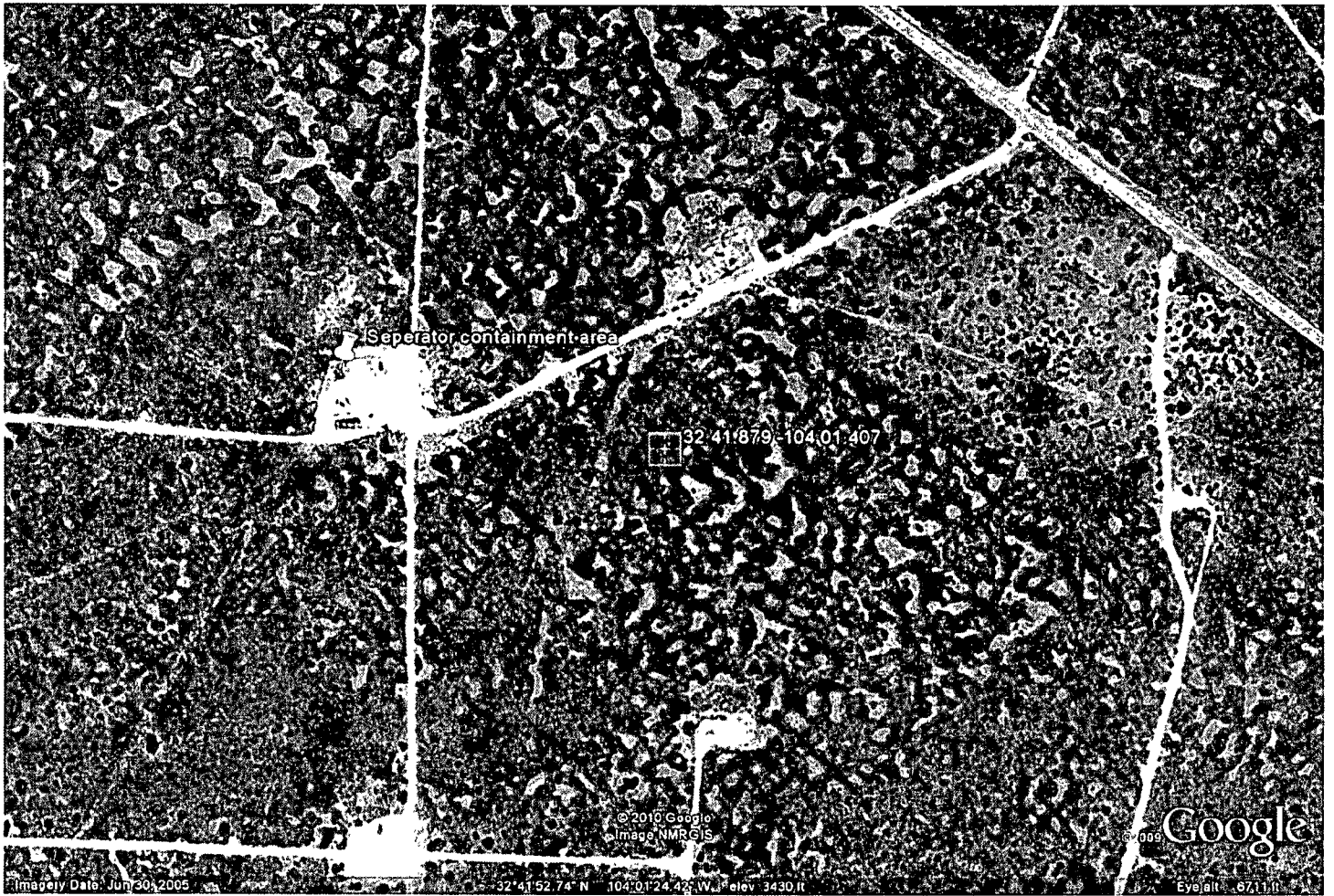
Eb Taylor
Basin Environmental Services

Attachments:

Site Location Map
Site Map
Initial Release Notification and Corrective Action (Form C-141)
Concentrations of benzene, BTEX, TPH and chloride in Soil
Laboratory Reports
Photographs

cc: Manny Ortega, Mewbourne Oil Company
Basin Environmental Service Technologies, LLC files

Attachment A
Site location map



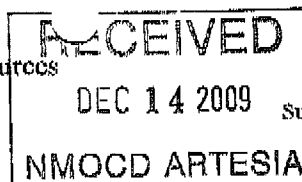
Attachment B
Site map

Attachment C
Release Notification and Corrective Action
(Form C-141).

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 Mowbourne Oil Company 14744	Contact Manny Ortega
Address 701 S. Cecil, Hobbs, NM 88241	Telephone No. 575-390-4111
Facility Name State JL 36 Battery 001	Facility Type Oil separation facility

Surface Owner Mowbourne Oil Company	Mineral Owner Mowbourne Oil Company	Lease No. 001
-------------------------------------	-------------------------------------	---------------

30-015-23428

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	South Line	Feet from the	East Line	County
O	36	18S	29E	660'		1980'		Eddy

Latitude 33 Longitude 102

NATURE OF RELEASE

Type of Release Spill	Volume of Release 4 bbls	Volume Recovered 4 bbls
Source of Release Oil separator flow line	Date and Hour of Occurrence 11/26/09 hour unknown	Date and Hour of Discovery 11/27/09 8:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Darold Gray	
By Whom? An anonymous phone call was made.	Date and Hour November 27 th , 2009, 8:00 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Battery was vandalized (valve was removed from the flow line to heater). Visually impacted soil was excavated and taken to CRI.

Describe Area Affected and Cleanup Action Taken.*

Mowbourne is in the process of delineation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC D marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC D acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Manny Ortega	Approved by District Supervisor:	Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/documentation on or before the Expiration Date.
Title: Engineer	Approval Date: 12-14-09	Expiration Date: 2-19-10
E-mail Address: Mortega@mowbourne.com	Conditions of Approval:	Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD
Date: 12-11-09 Phone: 575-390-4111	Within 30 days, on or before: Jan 14, 2010 completion of a remediation work plan based on delineation should be finalized and submitted for approval to the Division summarizing all actions taken and/or to be taken to mitigate environmental damage	

* Attach Additional Sheets If Necessary

LSK0934427467
n SE0934429961
CER0934423327

Attachment D
Analytical



6701 Alameda Avenue, Suite B Lubbock, Texas 79424 806•375•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 886•585•3143 915•585•3442 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76122 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Eb Taylor
Basin Environmental Consulting
2800 Plains Hwy.
P. O. Box 381
Lovington, NM, 88260

Report Date: December 22, 2009

Work Order: 9121503



Project Location: Eddy Co., NM
Project Name: JL 36 Tank Battery
Project Number: Mewbourne Oil

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
217195	Trench 1 8'	soil	2009-12-11	10:40	2009-12-15
217196	Trench 2 8'	soil	2009-12-11	12:23	2009-12-15
217197	Trench 2 12'	soil	2009-12-11	12:40	2009-12-15
217198	Trench 3 4'	soil	2009-12-11	11:30	2009-12-15
217199	Trench 3 12'	soil	2009-12-11	13:00	2009-12-15
217200	Trench 4 8'	soil	2009-12-11	13:35	2009-12-15
217201	Trench 4 12'	soil	2009-12-11	13:50	2009-12-15
217202	RP 8'	soil	2009-12-11	14:40	2009-12-15
217203	RP 12'	soil	2009-12-11	15:15	2009-12-15
217204	BG 4'	soil	2009-12-11	15:00	2009-12-15

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project JL 36 Tank Battery were received by TraceAnalysis, Inc. on 2009-12-15 and assigned to work order 9121503. Samples for work order 9121503 were received intact at a temperature of 7.8 deg C (on ice).

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	56539	2009-12-20 at 14:42	66137	2009-12-20 at 14:42
Chloride (Titration)	SM 4500-Cl B	56588	2009-12-22 at 13:25	66205	2009-12-22 at 13:33
TPH DRO - NEW	Mod. 8015B	56430	2009-12-15 at 15:00	66014	2009-12-15 at 18:00
TPH GRO	S 8015B	56527	2009-12-18 at 16:43	66121	2009-12-18 at 16:43
TPH GRO	S 8015B	56539	2009-12-20 at 14:42	66138	2009-12-20 at 14:42

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9121503 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 217195 - Trench 1 8'

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 66137
Prep Batch: 56539

Analytical Method: S 8021B
Date Analyzed: 2009-12-20
Sample Preparation: 2009-12-20

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.83	mg/Kg	1	2.00	92	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.92	mg/Kg	1	2.00	96	72.8 - 115

Sample: 217195 - Trench 1 8'

Laboratory: Lubbock
Analysis: Chloride (Titration)
QC Batch: 66205
Prep Batch: 56588

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-12-22
Sample Preparation: 2009-12-22

Prep Method: N/A
Analyzed By: KV
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		486	mg/Kg	10	3.25

Sample: 217195 - Trench 1 8'

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 66014
Prep Batch: 56430

Analytical Method: Mod. 8015B
Date Analyzed: 2009-12-15
Sample Preparation: 2009-12-15

Prep Method: N/A
Analyzed By: AW
Prepared By: AW

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Report Date: December 22, 2009
Mewbourne Oil

Work Order: 9121503
JL 36 Tank Battery

Page Number: 5 of 26
Eddy Co., NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		111	mg/Kg	1	100	111	38.6 - 167

Sample: 217195 - Trench 1 8'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66121 Date Analyzed: 2009-12-18 Analyzed By: MT
Prep Batch: 56527 Sample Preparation: 2009-12-18 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.13	mg/Kg	1	2.00	106	86.9 - 113
4-Bromofluorobenzene (4-BFB)		2.17	mg/Kg	1	2.00	108	56.2 - 130

Sample: 217196 - Trench 2 8'

Laboratory: Lubbock
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 66137 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.92	mg/Kg	1	2.00	96	71.8 - 112
4-Bromofluorobenzene (4-BFB)		2.00	mg/Kg	1	2.00	100	72.8 - 115

Report Date: December 22, 2009
Mewbourne Oil

Work Order: 9121503
JL 36 Tank Battery

Page Number: 6 of 26
Eddy Co., NM

Sample: 217196 - Trench 2 8'

Laboratory: Lubbock
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 66205 Date Analyzed: 2009-12-22 Analyzed By: KV
Prep Batch: 56588 Sample Preparation: 2009-12-22 Prepared By: KV

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		2120	mg/Kg	100	3.25

Sample: 217196 - Trench 2 8'

Laboratory: Lubbock
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 Sample Preparation: 2009-12-15 Prepared By: AW

Parameter	Flag	RL	Units	Dilution	RL
		Result			
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		107	mg/Kg	1	100	107	38.6 - 167

Sample: 217196 - Trench 2 8'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL	Units	Dilution	RL
		Result			
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.95	mg/Kg	1	2.00	98	56.2 - 130

Report Date: December 22, 2009
Mewbourne Oil

Work Order: 9121503
JL 36 Tank Battery

Page Number: 7 of 26
Eddy Co., NM

Sample: 217197 - Trench 2 12'

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 66137
Prep Batch: 56539

Analytical Method: S 8021B
Date Analyzed: 2009-12-20
Sample Preparation: 2009-12-20

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.65	mg/Kg	1	2.00	82	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84	72.8 - 115

Sample: 217197 - Trench 2 12'

Laboratory: Lubbock
Analysis: Chloride (Titration)
QC Batch: 66205
Prep Batch: 56588

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-12-22
Sample Preparation: 2009-12-22

Prep Method: N/A
Analyzed By: KV
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1020	mg/Kg	100	3.25

Sample: 217197 - Trench 2 12'

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 66014
Prep Batch: 56430

Analytical Method: Mod. 8015B
Date Analyzed: 2009-12-15
Sample Preparation: 2009-12-15

Prep Method: N/A
Analyzed By: AW
Prepared By: AW

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		110	mg/Kg	1	100	110	38.6 - 167

Report Date: December 22, 2009
Mewbourne Oil

Work Order: 9121503
JL 36 Tank Battery

Page Number: 8 of 26
Eddy Co., NM

Sample: 217197 - Trench 2 12'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹	1.72	mg/Kg	1	2.00	86	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.64	mg/Kg	1	2.00	82	56.2 - 130

Sample: 217198 - Trench 3 4'

Laboratory: Lubbock
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 66137 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.59	mg/Kg	1	2.00	80	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	72.8 - 115

Sample: 217198 - Trench 3 4'

Laboratory: Lubbock
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 66205 Date Analyzed: 2009-12-22 Analyzed By: KV
Prep Batch: 56588 Sample Preparation: 2009-12-22 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1880	mg/Kg	50	3.25

¹Surrogate TFT out due to matrix interference. Sample was reran on 12/20/2009 to confirm matrix interference results.

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Sample: 217198 - Trench 3 4'

Laboratory: Lubbock
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 Sample Preparation: 2009-12-15 Prepared By: AW

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		113	mg/Kg	1	100	113	38.6 - 167

Sample: 217198 - Trench 3 4'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²	1.68	mg/Kg	1	2.00	84	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.58	mg/Kg	1	2.00	79	56.2 - 130

Sample: 217199 - Trench 3 12'

Laboratory: Lubbock
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 66137 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

²Surrogate TFT out due to matrix interference. Sample was reran on 12/20/2009 to confirm matrix interference results.

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.62	mg/Kg	1	2.00	81	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	72.8 - 115

Sample: 217199 - Trench 3 12'

Laboratory: Lubbock
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 66205 Date Analyzed: 2009-12-22 Analyzed By: KV
Prep Batch: 56588 Sample Preparation: 2009-12-22 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		462	mg/Kg	50	3.25

Sample: 217199 - Trench 3 12'

Laboratory: Lubbock
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 Sample Preparation: 2009-12-15 Prepared By: AW

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		120	mg/Kg	1	100	120	38.6 - 167

Sample: 217199 - Trench 3 12'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	³	1.70	mg/Kg	1	2.00	85	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	56.2 - 130

Sample: 217200 - Trench 4 8'

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 66137

Prep Batch: 56539

Analytical Method: S 8021B

Date Analyzed: 2009-12-20

Sample Preparation: 2009-12-20

Prep Method: S 5035

Analyzed By: MT

Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.67	mg/Kg	1	2.00	84	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.70	mg/Kg	1	2.00	85	72.8 - 115

Sample: 217200 - Trench 4 8'

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 66205

Prep Batch: 56588

Analytical Method: SM 4500-Cl B

Date Analyzed: 2009-12-22

Sample Preparation: 2009-12-22

Prep Method: N/A

Analyzed By: KV

Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		92.3	mg/Kg	10	3.25

Sample: 217200 - Trench 4 8'

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 66014

Prep Batch: 56430

Analytical Method: Mod. 8015B

Date Analyzed: 2009-12-15

Sample Preparation: 2009-12-15

Prep Method: N/A

Analyzed By: AW

Prepared By: AW

³Surrogate TFT out due to matrix interference. Sample was reran on 12/20/2009 to confirm matrix interference results.

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Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		112	mg/Kg	1	100	112	38.6 - 167

Sample: 217200 - Trench 4 8'

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 66138
Prep Batch: 56539

Analytical Method: S 8015B
Date Analyzed: 2009-12-20
Sample Preparation: 2009-12-20

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/Kg	1	2.00	88	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	56.2 - 130

Sample: 217201 - Trench 4 12'

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 66137
Prep Batch: 56539

Analytical Method: S 8021B
Date Analyzed: 2009-12-20
Sample Preparation: 2009-12-20

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.58	mg/Kg	1	2.00	79	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84	72.8 - 115

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Sample: 217201 - Trench 4 12'

Laboratory: Lubbock
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 66205 Date Analyzed: 2009-12-22 Analyzed By: KV
Prep Batch: 56588 Sample Preparation: 2009-12-22 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	⁴	88.5	mg/Kg	20	3.25

Sample: 217201 - Trench 4 12'

Laboratory: Lubbock
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 Sample Preparation: 2009-12-15 Prepared By: AW

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		110	mg/Kg	1	100	110	38.6 - 167

Sample: 217201 - Trench 4 12'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁵	1.68	mg/Kg	1	2.00	84	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.63	mg/Kg	1	2.00	82	56.2 - 130

⁴ Not entered

⁵ Surrogate TFT out due to matrix interference. Sample was reran on 12/20/2009 to confirm matrix interference results.

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Sample: 217202 - RP 8'

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 66137
Prep Batch: 56539

Analytical Method: S 8021B
Date Analyzed: 2009-12-20
Sample Preparation: 2009-12-20

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.92	mg/Kg	1	2.00	96	72.8 - 115

Sample: 217202 - RP 8'

Laboratory: Lubbock
Analysis: Chloride (Titration)
QC Batch: 66205
Prep Batch: 56588

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-12-22
Sample Preparation: 2009-12-22

Prep Method: N/A
Analyzed By: KV
Prepared By: KV

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		4240	mg/Kg	100	3.25

Sample: 217202 - RP 8'

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 66014
Prep Batch: 56430

Analytical Method: Mod. 8015B
Date Analyzed: 2009-12-15
Sample Preparation: 2009-12-15

Prep Method: N/A
Analyzed By: AW
Prepared By: AW

Parameter	Flag	RL	Units	Dilution	RL
		Result			
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		114	mg/Kg	1	100	114	38.6 - 167

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Sample: 217202 - RP 8'

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 66138
Prep Batch: 56539

Analytical Method: S 8015B
Date Analyzed: 2009-12-20
Sample Preparation: 2009-12-20

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.87	mg/Kg	1	2.00	94	56.2 - 130

Sample: 217203 - RP 12'

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 66137
Prep Batch: 56539

Analytical Method: S 8021B
Date Analyzed: 2009-12-20
Sample Preparation: 2009-12-20

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.69	mg/Kg	1	2.00	84	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	1	2.00	90	72.8 - 115

Sample: 217203 - RP 12'

Laboratory: Lubbock
Analysis: Chloride (Titration)
QC Batch: 66205
Prep Batch: 56588

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-12-22
Sample Preparation: 2009-12-22

Prep Method: N/A
Analyzed By: KV
Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2650	mg/Kg	100	3.25

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Sample: 217203 - RP 12'

Laboratory: Lubbock
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 Sample Preparation: 2009-12-15 Prepared By: AW

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		117	mg/Kg	1	100	117	38.6 - 167

Sample: 217203 - RP 12'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.81	mg/Kg	1	2.00	90	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	1	2.00	87	56.2 - 130

Sample: 217204 - BG 4'

Laboratory: Lubbock
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 66137 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.65	mg/Kg	1	2.00	82	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.71	mg/Kg	1	2.00	86	72.8 - 115

Sample: 217204 - BG 4'

Laboratory: Lubbock
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 66205 Date Analyzed: 2009-12-22 Analyzed By: KV
Prep Batch: 56588 Sample Preparation: 2009-12-22 Prepared By: KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		88.5	mg/Kg	20	3.25

Sample: 217204 - BG 4'

Laboratory: Lubbock
Analysis: TPH DRO - NEW Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 Sample Preparation: 2009-12-15 Prepared By: AW

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		115	mg/Kg	1	100	115	38.6 - 167

Sample: 217204 - BG 4'

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 Sample Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.77	mg/Kg	1	2.00	88	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84	56.2 - 130

Method Blank (1) QC Batch: 66014

QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 QC Preparation: 2009-12-15 Prepared By: AW

Parameter	Flag	MDL Result	Units	RL
DRO		<4.66	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		100	mg/Kg	1	100	100	38.6 - 167

Method Blank (1) QC Batch: 66121

QC Batch: 66121 Date Analyzed: 2009-12-18 Analyzed By: MT
Prep Batch: 56527 QC Preparation: 2009-12-18 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.403	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	1	2.00	90	56.2 - 130

Method Blank (1) QC Batch: 66137

QC Batch: 66137 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 QC Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00331	mg/Kg	0.02
Toluene		<0.00528	mg/Kg	0.02
Ethylbenzene		<0.00448	mg/Kg	0.02
Xylene		<0.00456	mg/Kg	0.02

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.81	mg/Kg	1	2.00	90	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.86	mg/Kg	1	2.00	93	72.8 - 115

Method Blank (1) QC Batch: 66138

QC Batch: 66138 Date Analyzed: 2009-12-20 Analyzed By: MT
Prep Batch: 56539 QC Preparation: 2009-12-20 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.403	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	1	2.00	91	56.2 - 130

Method Blank (1) QC Batch: 66205

QC Batch: 66205 Date Analyzed: 2009-12-22 Analyzed By: KV
Prep Batch: 56588 QC Preparation: 2009-12-22 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
Chloride		<1.80	mg/Kg	3.25

Laboratory Control Spike (LCS-1)

QC Batch: 66014 Date Analyzed: 2009-12-15 Analyzed By: AW
Prep Batch: 56430 QC Preparation: 2009-12-15 Prepared By: AW

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	230	mg/Kg	1	250	<4.66	92	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	228	mg/Kg	1	250	<4.66	91	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	112	110	mg/Kg	1	100	112	110	38.6 - 167

Laboratory Control Spike (LCS-1)

QC Batch: 66121
Prep Batch: 56527

Date Analyzed: 2009-12-18
QC Preparation: 2009-12-18

Analyzed By: MT
Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	20.3	mg/Kg	1	20.0	<0.403	101	72.6 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	20.7	mg/Kg	1	20.0	<0.403	104	72.6 - 121	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.93	1.92	mg/Kg	1	2.00	96	96	75.2 - 112
4-Bromofluorobenzene (4-BFB)	1.94	1.96	mg/Kg	1	2.00	97	98	54.9 - 133

Laboratory Control Spike (LCS-1)

QC Batch: 66137
Prep Batch: 56539

Date Analyzed: 2009-12-20
QC Preparation: 2009-12-20

Analyzed By: MT
Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.90	mg/Kg	1	2.00	<0.00331	95	78.9 - 113
Toluene	1.92	mg/Kg	1	2.00	<0.00528	96	78.3 - 116
Ethylbenzene	1.89	mg/Kg	1	2.00	<0.00448	94	79.1 - 117
Xylene	5.79	mg/Kg	1	6.00	<0.00456	96	79.6 - 116

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.92	mg/Kg	1	2.00	<0.00331	96	78.9 - 113	1	20
Toluene	1.93	mg/Kg	1	2.00	<0.00528	96	78.3 - 116	0	20
Ethylbenzene	1.91	mg/Kg	1	2.00	<0.00448	96	79.1 - 117	1	20
Xylene	5.87	mg/Kg	1	6.00	<0.00456	98	79.6 - 116	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: December 22, 2009
Mewbourne Oil

Work Order: 9121503
JL 36 Tank Battery

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Eddy Co., NM

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.90	1.92	mg/Kg	1	2.00	95	96	70.8 - 111
4-Bromofluorobenzene (4-BFB)	1.97	1.99	mg/Kg	1	2.00	98	100	68.3 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 66138
Prep Batch: 56539

Date Analyzed: 2009-12-20
QC Preparation: 2009-12-20

Analyzed By: MT
Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	20.7	mg/Kg	1	20.0	<0.403	104	72.6 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	22.4	mg/Kg	1	20.0	<0.403	112	72.6 - 121	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.92	2.12	mg/Kg	1	2.00	96	106	75.2 - 112
4-Bromofluorobenzene (4-BFB)	1.98	1.97	mg/Kg	1	2.00	99	98	54.9 - 133

Matrix Spike (MS-1) Spiked Sample: 217198

QC Batch: 66014
Prep Batch: 56430

Date Analyzed: 2009-12-15
QC Preparation: 2009-12-15

Analyzed By: AW
Prepared By: AW

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	224	mg/Kg	1	250	<4.66	90	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	240	mg/Kg	1	250	<4.66	96	70 - 130	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	104	111	mg/Kg	1	100	104	111	38.6 - 167

Matrix Spike (MS-1) Spiked Sample: 217196

QC Batch: 66121
Prep Batch: 56527

Date Analyzed: 2009-12-18
QC Preparation: 2009-12-18

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	⁶ 3.00	mg/Kg	1	20.0	<0.403	15	34.1 - 160

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	⁷ 13.3	mg/Kg	1	20.0	<0.403	66	34.1 - 160	126	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁸ 0.414	1.32	mg/Kg	1	2	21	66	56.9 - 137
4-Bromofluorobenzene (4-BFB)	⁹ 0.450	1.49	mg/Kg	1	2	22	74	42.1 - 171

Matrix Spike (MS-1) Spiked Sample: 217726

QC Batch: 66137
Prep Batch: 56539

Date Analyzed: 2009-12-20
QC Preparation: 2009-12-20

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.65	mg/Kg	1	2.00	<0.00331	82	61.5 - 134
Toluene	1.74	mg/Kg	1	2.00	<0.00528	87	64.2 - 143
Ethylbenzene	1.80	mg/Kg	1	2.00	<0.00448	90	67.7 - 152
Xylene	5.47	mg/Kg	1	6.00	<0.00456	91	67.8 - 152

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.78	mg/Kg	1	2.00	<0.00331	89	61.5 - 134	8	20
Toluene	1.89	mg/Kg	1	2.00	<0.00528	94	64.2 - 143	8	20
Ethylbenzene	1.98	mg/Kg	1	2.00	<0.00448	99	67.7 - 152	10	20
Xylene	6.10	mg/Kg	1	6.00	<0.00456	102	67.8 - 152	11	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁶Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

⁷MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

⁹Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

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Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	¹⁰	3.61	1.94	mg/Kg	1	2	180	97	65.3 - 134
4-Bromofluorobenzene (4-BFB)	¹¹	3.64	2.03	mg/Kg	1	2	182	102	61.9 - 143

Matrix Spike (MS-1) Spiked Sample: 217727

QC Batch: 66138
Prep Batch: 56539

Date Analyzed: 2009-12-20
QC Preparation: 2009-12-20

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.2	mg/Kg	1	20.0	<0.403	86	34.1 - 160

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	18.8	mg/Kg	1	20.0	<0.403	94	34.1 - 160	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.77	1.82	mg/Kg	1	2	88	91	56.9 - 137
4-Bromofluorobenzene (4-BFB)	1.95	2.04	mg/Kg	1	2	98	102	42.1 - 171

Matrix Spike (MS-1) Spiked Sample: 217195

QC Batch: 66205
Prep Batch: 56588

Date Analyzed: 2009-12-22
QC Preparation: 2009-12-22

Analyzed By: KV
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	919	mg/Kg	10	500	486	87	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	925	mg/Kg	10	500	486	88	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

¹⁰Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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JL 36 Tank Battery

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Standard (CCV-1)

QC Batch: 66014			Date Analyzed: 2009-12-15			Analyzed By: AW	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	233	93	80 - 120	2009-12-15

Standard (CCV-2)

QC Batch: 66014			Date Analyzed: 2009-12-15			Analyzed By: AW	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	265	106	80 - 120	2009-12-15

Standard (CCV-1)

QC Batch: 66121			Date Analyzed: 2009-12-18			Analyzed By: MT	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.998	100	80 - 120	2009-12-18

Standard (CCV-2)

QC Batch: 66121			Date Analyzed: 2009-12-18			Analyzed By: MT	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	80 - 120	2009-12-18

Standard (CCV-1)

QC Batch: 66137			Date Analyzed: 2009-12-20			Analyzed By: MT	
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0946	95	80 - 120	2009-12-20
Toluene		mg/Kg	0.100	0.0953	95	80 - 120	2009-12-20

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		mg/Kg	0.100	0.0951	95	80 - 120	2009-12-20
Xylene		mg/Kg	0.300	0.290	97	80 - 120	2009-12-20

Standard (CCV-2)

QC Batch: 66137

Date Analyzed: 2009-12-20

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0982	98	80 - 120	2009-12-20
Toluene		mg/Kg	0.100	0.0984	98	80 - 120	2009-12-20
Ethylbenzene		mg/Kg	0.100	0.0958	96	80 - 120	2009-12-20
Xylene		mg/Kg	0.300	0.290	97	80 - 120	2009-12-20

Standard (CCV-3)

QC Batch: 66137

Date Analyzed: 2009-12-20

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0929	93	80 - 120	2009-12-20
Toluene		mg/Kg	0.100	0.0928	93	80 - 120	2009-12-20
Ethylbenzene		mg/Kg	0.100	0.0907	91	80 - 120	2009-12-20
Xylene		mg/Kg	0.300	0.276	92	80 - 120	2009-12-20

Standard (CCV-1)

QC Batch: 66138

Date Analyzed: 2009-12-20

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	80 - 120	2009-12-20

Standard (CCV-2)

QC Batch: 66138

Date Analyzed: 2009-12-20

Analyzed By: MT

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Mewbourne Oil

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	80 - 120	2009-12-20

Standard (CCV-3)

QC Batch: 66138

Date Analyzed: 2009-12-20

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.998	100	80 - 120	2009-12-20

Standard (ICV-1)

QC Batch: 66205

Date Analyzed: 2009-12-22

Analyzed By: KV

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2009-12-22

Standard (CCV-1)

QC Batch: 66205

Date Analyzed: 2009-12-22

Analyzed By: KV

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2009-12-22

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
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1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
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Ft. Worth, Texas 76116
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Company Name: <u>Basin Env.</u>		Phone #: <u>575 396-2378</u>	
Address: (Street, City, Zip) <u>2900 PLAINS HWY</u>		Fax #:	
Contact Person: <u>ER Taylor</u>		E-mail: <u>ertaylor@basinenv.com</u>	
Invoice to: (If different from above) <u>MEADOWBROOK OIL ATTN: MANNY ORTIZ</u>			
Project #: <u>MEADOWBROOK OIL</u>		Project Name: <u>IL 36 TANK BATTERY</u>	
Project Location (including state): <u>EDAP NM</u>		Sampler Signature: <u>[Signature]</u>	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		MTBE 8021 / 602	BTX 8021 / 602 / 1	TPH 418.1 / TX1005	TPH 8015 / GRO-DI	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Cu Pb Se Tl V Zn	TCLP Metals Ag As Ba Cd Cr Cu Pb Se Tl V Zn	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 8	GC/MS Semi Vol. 8	PCB's 8082 / 608	Pesticides 8081 / 60	BOD, TSS, pH	Moisture Content	CATALOGUES			Turn Around Time if	Hold																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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MTBE 8021 / 602 / 8260 / 624

BTX (8021) / 602 / 8260 / 624

TPH 418.1 / TX1005 / TX1005 Ext(C35)

TPH 8015 GROSS DRO / TVHC

PAH 8270 / 625

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/2007

TCCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCCLP Volatiles

TCCLP Semi Volatiles

TCCLP Pesticides

RCI

GC/MS Vol. 8260 / 624

GC/MS Semi Vol. 8270 / 625

PCB's 8082 / 608

Pesticides 8081 / 608

BOD, TSS, pH

Moisture Content

Catalyzed

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR
<u>[Signature]</u>	<u>Basin</u>	<u>12/15/09</u>	<u>8:15</u>							
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR
				<u>Cand Fox Trace</u>		<u>12-15-09</u>	<u>8:15</u>	<u>7.4</u>	<u>7.4</u>	<u>7.8</u>

LAB USE ONLYIntact Y / NHeadspace Y / N / NALog-in-Review [Signature]**REMARKS:**

- ☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier #

Carry in, on ice

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Governor

Jon Goldstein

Cabinet Secretary

Jim Noel

Deputy Cabinet Secretary

Mark Fesmire

Division Director

Oil Conservation Division



February 10, 2010

Mewbourne Oil Company

Attn: Mr. Manny Ortega

701 S Cecil

Hobbs, NM 88220

Reference: State JL 36 001 Battery 30-015-23428
O-36-18S-29E Eddy County, New Mexico
2RP-383

Operator,

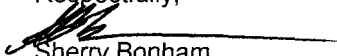
The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a remediation work plan proposal (plan) submitted on behalf of operator by Basin Environmental Service Technologies, LLC.

Based on data presented, the plan is accepted with the following stipulations:

- Confirmation soil analyses for constituents of concern will be required upon completion of excavation.
- Notify the OCD 48 hours prior to obtaining samples where analyses are to be submitted to the OCD.
- Results of analytical data obtained through sampling shall be forwarded to OCD for approval **prior** to any backfilling activities
- A final report (to include a Final C-141) summarizing actions taken to mitigate environmental damage related to the leak, spill or release is to be submitted to the OCD upon satisfactory completion of remediation project.
- Remediation requirements may be subject to change as site conditions warrant.
- Remediation activities to be completed on or before **March 10, 2010**.

Please be advised that NMOCD acceptance of documents, data, etc does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a documents, data, etc does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Respectfully,


Sherry Bonham
NMOCD District 2
1301 W Grand Avenue
Artesia, NM 88210
575.748.1283 ext. 109
sherry.bonham@state.nm.us

cc: Eb Taylor

Basin Environmental Service Technologies, LLC

Oil Conservation Division * 1220 South St. Francis Drive

* Santa Fe, New Mexico 87505

* Phone: (505) 476-3440 * Fax (505) 476-3462* <http://www.emnrd.state.nm.us>

