10/07/08

Ms. Bonham,

I was advised, this date by Mr, Joseph Baca, that the originals of the attached reports had not been received in your offices.

Please accept the following as replacement submittals.

If you have any questions, please do not hesitate to contact me.

Thank you for your time ~

Pam

Pam Inskeep
BTA Oil Producers
104 S. Pecos
Midland, TX 79701
432-682-3753
432-683-0325 fax
pinskeep@btaoil.com

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 March 17, 1999

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 ☒ Amended Final Report

Name of Company	BTA Oil Producers	Contact	Pam Inskeep
Address	104 S. Pecos, Midland, TX 79701	Telephone No.	(432) 682-3753
Facility Name	Owl, 20504 JV-P, #5	Facility Type	Well

Surface Owner Forehand Ranch/grazing lessee	Mineral Owner Federal	Lease No. NMNM 114969

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	26S	27E	2310	South	2130	East	Eddy

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 500 bbls	Volume Recovered: not known at this time
Source of Release: Lightning Strike	Date and Hour of Occurrence: am CDT, late 09/08/2008	Date and Hour of Discovery: 12 pm CDT, late 09/08/2008
Was Immediate Notice Given? As soon as notified in the office ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Richard Inge, OCD Office, Artesia BLM Field Office, Carlsbad	
By Whom? Pam Inskeep	Date and Hour: 9:00 a.m. CDT 09/09/2008	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

The pumper discovered the lightning strike damage at the location. All fiberglass tanks were totally destroyed. No other equipment was damaged. Approximately 550 bbls of produced water was released, with an estimated 425 bbls held by within the dike. Due to a breach in the firewall caused by produced water flowing around the load line that was placed through the poly liner (which covered the floor and over the firewalls), an estimated 75 bbls was released outside the containment. JD Vacuum Truck Services recovered 425 bbls. The area outside the dike is sparsely vegetated plain. The affected area was cleaned in its entirety. Burnt debris was removed and transported to an approved disposal site. Impacted soil was removed and stockpiled. A waste characterization was collected from the stockpile before transport of the soil to the approved disposal site. Soil samples were collected from the tank battery site as well as three areas outside the containment and all were submitted to a laboratory for analysis. Thirteen samples in all were collected from the site for analysis. Based on the analytical results of the samples, the site is deemed restored to below applicable regulatory clean-up levels. Said results have been provided in our Closure Report submitted by Mr. Joseph Baca, BTA.

Describe Area Affected and Cleanup Action Taken.*

See above explanation

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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: Pam Inskeep 10/7/08	OIL CONSERVATION DIVISION
Printed Name: Pam Inskeep	Approved by District Supervisor: TGum by SD
Title: Regulatory Administrator	Approval Date: 10-8-08 Expiration Date: N/A
Date: 10/02/2008 Phone: (432) 682-3753	Conditions of Approval: N/A Attached ☐ N/A

* Attach Additional Sheets If Necessary

2RP - 225

BTA OIL PRODUCERS
104 SOUTH PECOS STREET
MIDLAND, TEXAS 79701
OFFICE. 432-682-3753 Fax 432-683-0325

October 1, 2008

NEW MEXICO OIL CONSERVATION DIVISION
DISTRICT II
Artesia Field Office
1301 W. Grand Avenue
Artesia, New Mexico 88210

CERTIFIED MAIL 7007 2560 0003 3660 4548

Re: 20504 JV-P, Owl #5 SWD Battery
NW/4, SE/4, Section 18, T26S, R27E,
Eddy County, New Mexico

Dear Ms. Bonham,
Enclosed is a copy of the Owl #5 SWD Battery Closure Report for the unscheduled release of September 8, 2008. BTA Oil Producers, LLC has completed the remediation of the site and is presenting this report to the Oil Conservation Division (OCD) for closure. Thank you for your time in this matter. Should you have any questions, feel free to contact me at 432.553.5352.

Regards,

Joseph A. (Skip) Baca, P.G.
Environmental Coordinator
BTA Oil Producers
104 South Pecos
Midland, Texas 79701

2RP - 225

SITE REMEDIATION AND CLOSURE REPORT

20504 JV-P Owl #5 SWD Battery
24.0 Miles Southwest of Loving, New Mexico
Eddy County, New Mexico
BTA Project Number: Env. 2008-034

Prepared for:
New Mexico Oil Conservation Division
1301 W. Grand Avenue
Artesia, New Mexico 88210

Prepared by:
BTA Oil Producers
104 S. Pecos
Midland, Texas 79701

September 2008

Joseph A. Baca, P.G
Environmental Coordinator
BTA Oil Producers

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ATTACHMENTS

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APPENDICES

1.0 INTRODUCTION

BTA Oil Producers (BTA) is pleased to submit this Site Remediation and Closure Report (SRCR) for the BTA Owl #5 SWD Battery (Owl) clean up of produced water contaminated soil. The Owl (Project No. Env. 2008-034) site is located in Eddy County approximately 24.0 miles south of Loving, New Mexico. The GPS coordinates are N 32° 02.487' and W 104° 13.542'. A Site Location Map is provided as FIGURE 1.

According to BTA field personnel, on Tuesday, September 9, 2008 the pumper was making his rounds and went by the Owl #5 SWD Battery and found that the facility had been struck by lightning during a sever thunder on the evening of Monday, September 8, 2008. Upon further investigation it was found that the fiberglass tanks within the firewalls had been struck by the lightning and burned completely to the ground and produced water held in the tanks was released into the secondary containment. The facility is approximately one year old and was constructed using a poly-liner on the floor and over the firewalls. A breach in the firewall caused by produced water flowing around the load line that was placed through the poly-liner and firewall causing a design weakness in the firewall construction. It was also found that a total of approximately 500 barrels of produced water was released, approximately 425 barrels was held by the secondary containment. However, 75 barrels was release outside the containment (Figure 2). The pumper immediately notified the BTA Oil Producers office about the fire and release. The release was verbally reported to the Oil Conservation Division (OCD) in Artesia, New Mexico on September 9, 2008 and a New Mexico form C-141 was completed on September 9, 2008 and submitted to the state. A copy of the C-141 is included with this report in the Appendices as Appendix A.

1.1 Purpose of Report

The purpose of this report is to document remediation activities and present supporting analytical data to the OCD requesting remediation of the referenced produced water release accordance with the applicable OCD cleanup guidelines for produced water releases.

2.0 SUMMARY OF FIELD ACTIVITIES

2.1 Burnt Debris and Impacted Soil Removal

After the roustabout crew completed activities related to the battery fire, BTA, mobilized equipment to the site the morning of September 9, 2008. A backhoe, front end loader, three (3) belly dumps and two end dump trucks were utilized in the remediation of the site. Burnt debris from the battery fire was broken into manageable pieces, loaded into end-dump trucks, tarpped and transported to an approved disposal site.

Impacted soil from the battery fire and soil from the produced water runs were remove and stockpiled. A waste characterization was collected from the stockpile as required by the acceptance criterion of the approved disposal site before transport of the soil to the site. This material included impacted soil from the battery and firewalls, which measured approximately 100-feet long by 50-feet wide by 2.5-feet height and soil from three (3) easterly trending runs. The runs measured approximately 3 to 10-feet wide by 500-feet long by .083-feet deep Figure 2). A soil volume of approximately 140-yards, that included the battery soil and the soil from the three produced water runs were removed from the site and transported to

an approved disposal site. Approximately 150 yards of clean soil and caliche were trucked into the site and used to construct a new Owl #5 SWD Battery. Soil samples were collected from the tank battery site and three runs and submitted to a laboratory for analysis.

2.2 Confirmation Soil Sampling

Thirteen soil samples were collected from the site. On September 9, 2008 one (1) waste characterization sample was collected from the stockpile. On September 10, 2008 eleven (11) confirmation soil samples were collected from the battery site and runs. On September 11, 2008 one (1) background sample was collected from an area approximately 75-feet north of the wellhead. The sample was submitted to a laboratory for analysis.

2.3 Analytical Results – Stockpile, Excavated Area(s), and Background

On September 9, 2008, one (1) waste characterization stockpile sample, identified as Firewall & Floor was collected from the soil stockpile. The sample was submitted for laboratory analysis. The analytical results exhibited no results above regulatory limits and would not require further treatment.

On September 10, 2008 after the impacted areas had been excavated, eleven soil samples were collected from the battery site and the run sites and are identified as NW, NE, C, SW, SE, F1, F2, F3, F4, F5 and F6. They were submitted to the laboratory for analysis. The results the samples were below regulatory limits and no other action would be required (Table 1).

On September 11, 2008 one background sample was collected from a location approximately 75 feet north of the injection wellhead outside the site and identified as Owl background. The soil sample was submitted to the laboratory for analysis. The results indicated the sample was below regulatory limits (Table 1).

Laboratory submitted samples were placed in a new sterile glass container, equipped with a Teflon-lined lid furnished by the laboratory. The samples were labeled, placed on ice, chilled to a temperature of approximately 4°C and transported to Trace Analysis, Inc in Midland, Texas for analysis of DRO (Mod. 8015B), GRO (S 8015B), BTEX (8021 B) and Chlorides (SM 4500-CI B). Appropriate chain-of-custody documentation and shipping protocols were followed. The laboratory analytical reports are provided in Appendix B. Figure 2 displays the excavation limits and the location of each confirmation soil sample. Table 1 displays the analytical results of field tested and laboratory analyzed confirmation soil samples.

2.4 SITE RESTORATION

Based on the confirmation soil samples collected from the site and analytical results of those samples the site was deemed clean and was restored to its original condition.

3.0 SUMMARY AND REQUEST FOR CLOSURE

Based on the laboratory analyzed confirmation soil samples collected from the site, impacted soil was removed, properly disposed and the site was remediated to below applicable regulatory clean up levels.

4.0 LIMITATIONS

BTA has prepared this Site Closure Report to the best of its ability. No other warranty, expressed or implied, is made or intended. BTA has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. BTA 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. BTA has prepared this report in a professional manner, using a degree of skill and care. BTA 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 by BTA. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of BTA.

5.0 DISTRIBUTION

Site Remediation and Closure Report
BTA Oil Producers, LLC
Owl #5 SWD Battery,
Eddy County, New Mexico
BTA Project No. Env. 2008-034

Copies 1-2
Oil Conservation Division (OCD)
1301 W. Grand Avenue
Artesia, New Mexico 88210

Copy 3
BTA Central File

COPY # _____

ATTACHMENTS

FIGURES

Figure 1

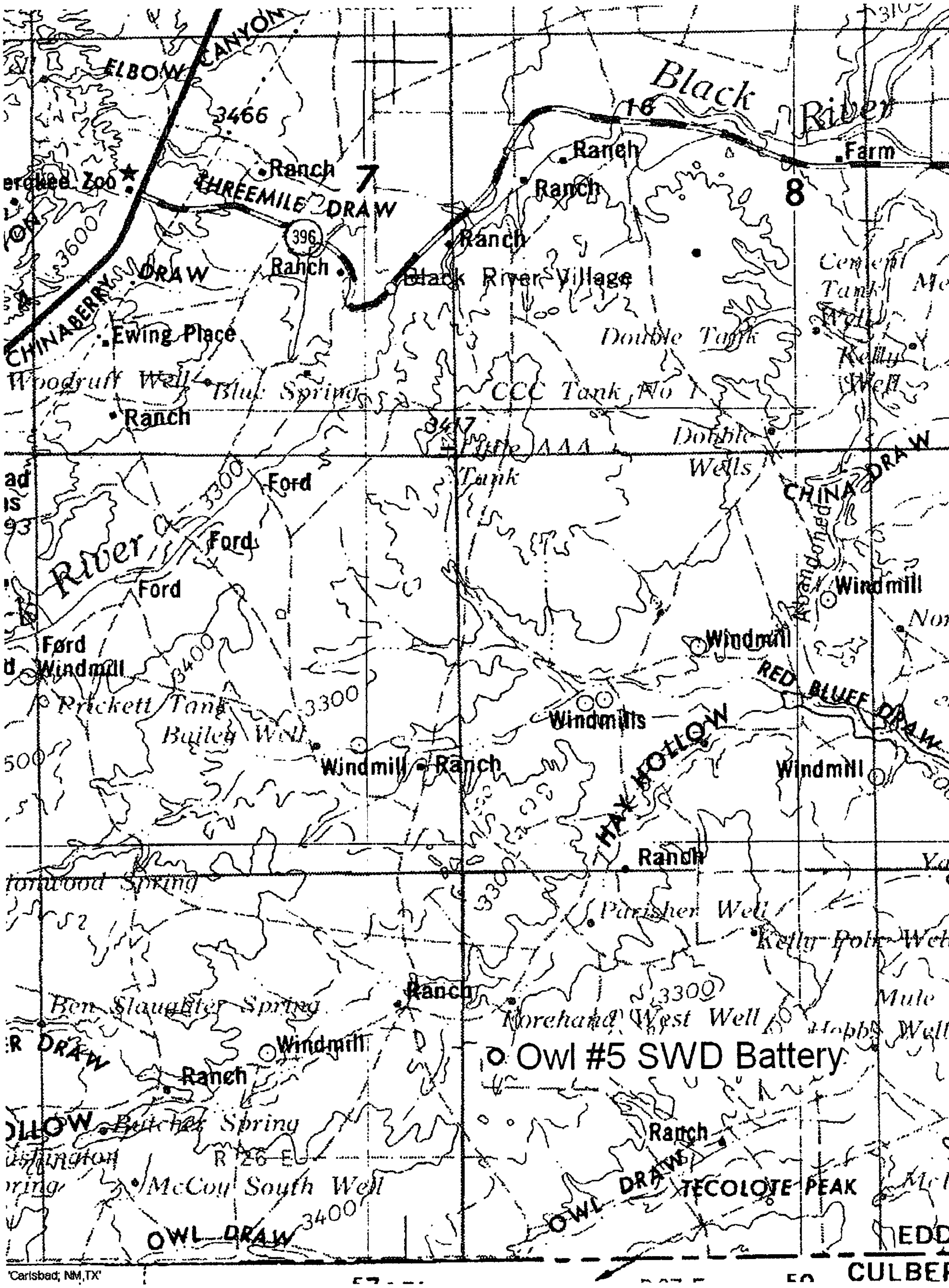
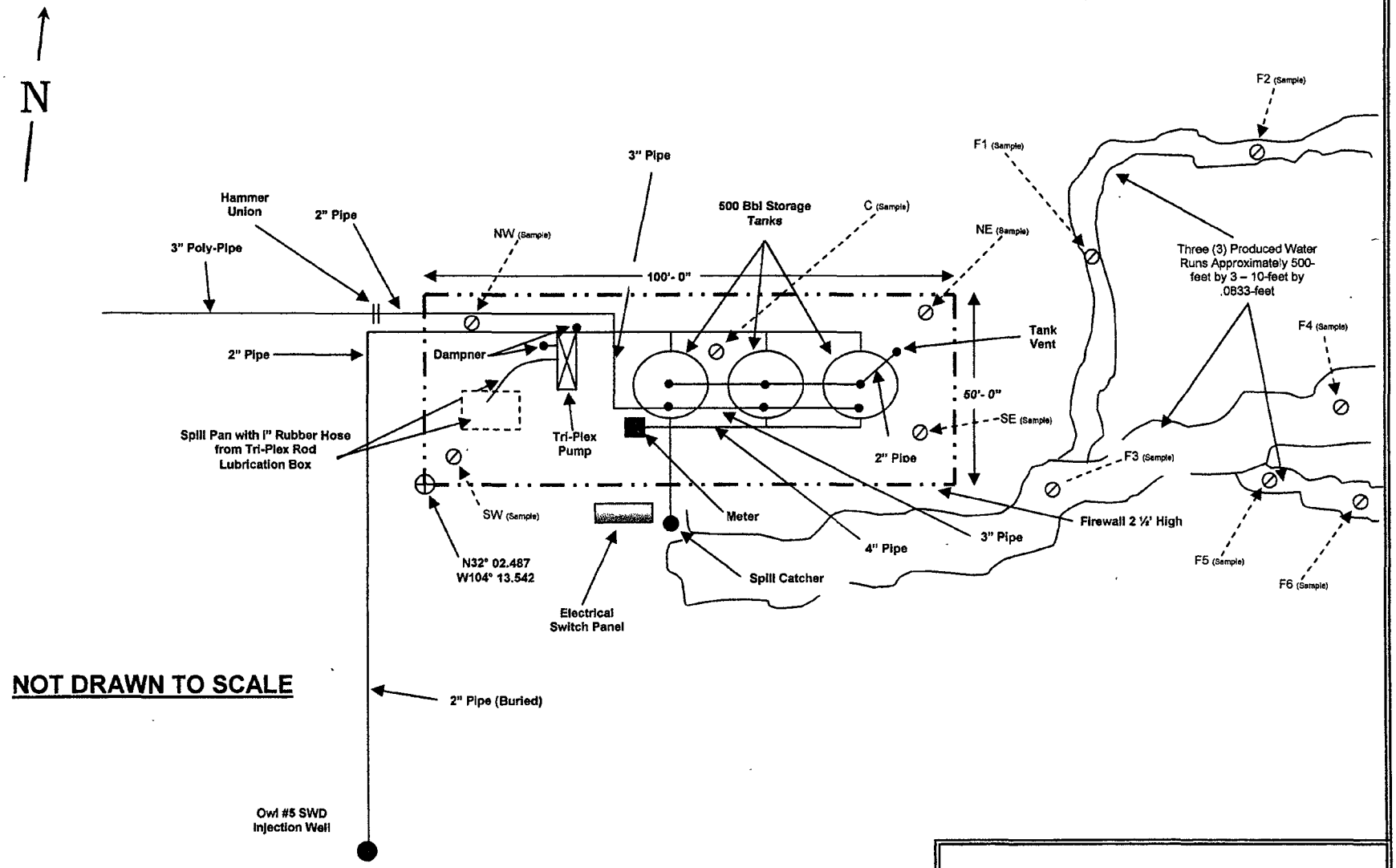

ELBOW CANYON
3466
Ranch
7
THREEMILE DRAW
396
Black River
16
Ranch
Farm
8
Ranch
Ranch
Ranch
Black River Village
CHINABERRY DRAW
3600
Ewing Place
Woodruff Well
Blue Spring
Ranch
CCC Tank No 1
Double Tank
Cement Tank Well
Kelly Well
3417
Little AAA Tank
Double Wells
CHINA DRAW
Ford
Ford
River
3300
Ford
Ford
Windmill
Abandoned
Windmill
Windmill
Prickett Tank
3400
3300
Bailey Well
Windmills
RED BLUFF DRAW
Windmill
Ranch
HAY HOLLOW
Windmill
Ranch
Parisher Well
Kelly Polk Well
Ben Slaughter Spring
Ranch
3300
Morehand West Well
Mule
Hobbs Well
Windmill
Owl #5 SWD Battery
Ranch
Butcher Spring
Ranch
R 26 E
McCoy South Well
3400
OWL DRAW
OWL DRAW
TECOLOTE PEAK
EDD
CULBER
'Carlsbad; NM,TX'

Figure 2



BTA Oil Producers

Midland, Texas

Site Map Owl #5 SWD Battery

Section 18, T26E, R27E

Eddy County, New Mexico

(Figure 2)

Date 10/1/2008 Scale None

Drawn by: JAB Checked by jab

TABLES

Table I
Soil TPH, DRO and GRO Analytical Results
Soil Chloride Analysis
BTA - Owl #5 SWD Battery - Eddy County, New Mexico
Oil Concervation Division and New MexicoBureau of Land Management (BLM)
BTA Project Number Env. 2008-034

GLE 3,281'				Analytical Methods						
ANALYTICAL METHOD				Mod. 8015B	S 8015B	S 8021B				SM 4500-CL B
SAMPLE DATE	SAMPLE IDENTIFICATION	Client No.	TOTAL TPH	TPH DRO mg/Kg	TPH GRO mg/Kg	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYLBENZENE mg/Kg	XYLENE mg/Kg	CHLORIDES (mg/Kg)
Excavation										
9/10/2008	NW		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	NE		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	C		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	SW		<100.0	<50.0	<1.00	NA	NA	NA	NA	116
	SE		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	F1		<100.0	<50.0	<1.00	NA	NA	NA	NA	135
	F2		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	F3		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	F4		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	F5		<100.0	<50.0	<1.00	NA	NA	NA	NA	106
	F6		<100.0	<50.0	<1.00	NA	NA	NA	NA	<100
	Background		NA	NA	NA	NA	NA	NA	NA	<100

Note: Values in bold are outside regulatory limits

APPENDICES

Appendix A

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 March 17, 1999

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	BTA Oil Producers	Contact	Pam Inskeep
Address	104 S. Pecos, Midland, TX 79701	Telephone No.	(432) 682-3753
Facility Name	Owl, 20504 JV-P, #5	Facility Type	Well

Surface Owner Forehand Ranch/grazing lessee	Mineral Owner Federal	Lease No. NMNM 114969

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	26S	27E	2310	South	2130	East	Eddy

NATURE OF RELEASE

Type of Release	Volume of Release 500 bbls	Volume Recovered not known at this time
Source of Release: Lightning Strike	Date and Hour of Occurrence am CDT, late 09/08/2008	Date and Hour of Discovery 12 pm CDT, late 09/08/2008
Was Immediate Notice Given? As soon as notified in the office ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Richard Inge, OCD Office, Artesia BLM Field Office, Carlsbad	
By Whom? Pam Inskeep	Date and Hour 9:00 a.m. CDT 09/09/2008	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

The pumper discovered the lightning strike damage at the location. All tanks were totally destroyed. No other equipment was damaged. Most of the fluid was contained within the dike. A small undetermined volume of water was released outside the dike, due to liner installation – a hole was cut in the liner to allow the flowline to pass through it. JD Vacuum Truck Services recovered 425 bbls. 45 bbls were lost inside the dike and 30 bbls were lost outside the dike. The area outside the dike is sparsely vegetated plain. The affected area will be cleaned in its entirety. An additional follow-up report will be submitted.

Describe Area Affected and Cleanup Action Taken.*

See above explanation

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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: Pam Inskeep	Approved by District Supervisor:	
Title: Regulatory Administrator	Approval Date:	Expiration Date:
Date: 09/10/2008 Phone: (432) 682-3753	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

Appendix B

Summary Report

Skip Baca
BTA Oil Producers
104 S. Pecos
Midland, TX, 79701

Report Date: September 12, 2008

Work Order: 8091108

Project Location: 24 miles from Orla
Project Name: Owl SWD Battery

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
173158	NW	soil	2008-09-10	16:30	2008-09-11
173159	NE	soil	2008-09-10	16:35	2008-09-11
173160	C	soil	2008-09-10	16:38	2008-09-11
173161	SW	soil	2008-09-10	16:40	2008-09-11
173162	SE	soil	2008-09-10	16:43	2008-09-11
173163	F1	soil	2008-09-10	16:46	2008-09-11
173164	F2	soil	2008-09-10	16:49	2008-09-11
173165	F3	soil	2008-09-10	16:53	2008-09-11
173166	F4	soil	2008-09-10	16:58	2008-09-11
173167	F5	soil	2008-09-10	17:01	2008-09-11
173168	F6	soil	2008-09-10	17:07	2008-09-11

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
173158 - NW	<50.0	<1.00
173159 - NE	<50.0	<1.00
173160 - C	<50.0	<1.00
173161 - SW	<50.0	<1.00
173162 - SE	<50.0	<1.00
173163 - F1	<50.0	<1.00
173164 - F2	<50.0	<1.00
173165 - F3	<50.0	<1.00
173166 - F4	<50.0	<1.00
173167 - F5	<50.0	<1.00
173168 - F6	<50.0	<1.00

Sample: 173158 - NW

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 173159 - NE

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 173160 - C

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 173161 - SW

Param	Flag	Result	Units	RL
Chloride		**116**	mg/Kg	2.00

Sample: 173162 - SE

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 173163 - F1

Param	Flag	Result	Units	RL
Chloride		**135**	mg/Kg	2.00

Sample: 173164 - F2

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 173165 - F3

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 173166 - F4

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 173167 - F5

Param	Flag	Result	Units	RL
Chloride		**106**	mg/Kg	2.00

Sample: 173168 - F6

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 | Lubbock, Texas 79424 | 800•378•1296 | 806•794•1296 | FAX 806•794•1298
200 East Sunset Road, Suite E | El Paso, Texas 79922 | 888•588•3443 | 915•585•3443 | 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 76132 | 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE: 237019 **HUB:** 1752439743100-86536 **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

Skip Baca
BTA Oil Producers
104 S. Pecos
Midland, TX, 79701

Report Date: September 12, 2008

Work Order: 8091108

Project Location: 24 miles from Orla
Project Name: Owl SWD Battery
Project Number: Owl SWD Battery

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
173158	NW	soil	2008-09-10	16:30	2008-09-11
173159	NE	soil	2008-09-10	16:35	2008-09-11
173160	C	soil	2008-09-10	16:38	2008-09-11
173161	SW	soil	2008-09-10	16:40	2008-09-11
173162	SE	soil	2008-09-10	16:43	2008-09-11
173163	F1	soil	2008-09-10	16:46	2008-09-11

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
173164	F2	soil	2008-09-10	16:49	2008-09-11
173165	F3	soil	2008-09-10	16:53	2008-09-11
173166	F4	soil	2008-09-10	16:58	2008-09-11
173167	F5	soil	2008-09-10	17:01	2008-09-11
173168	F6	soil	2008-09-10	17:07	2008-09-11

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.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Owl SWD Battery were received by TraceAnalysis, Inc. on 2008-09-11 and assigned to work order 8091108. Samples for work order 8091108 were received intact at a temperature of 3.2 deg. C.

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

Test	Method
Chloride (Titration)	SM 4500-Cl B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 8091108 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: 173158 - NW

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 173158 - NW

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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-Triacontane		128	mg/Kg	1	100	128	10 - 250.4

Sample: 173158 - NW

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.874	mg/Kg	1	1.00	87	66 - 142.8

Sample: 173159 - NE

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 173159 - NE

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		126	mg/Kg	1	100	126	10 - 250.4

Sample: 173159 - NE

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.868	mg/Kg	1	1.00	87	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.855	mg/Kg	1	1.00	86	66 - 142.8

Sample: 173160 - C

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 173160 - C

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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-Triacontane		114	mg/Kg	1	100	114	10 - 250.4

Sample: 173160 - C

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.883	mg/Kg	1	1.00	88	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.860	mg/Kg	1	1.00	86	66 - 142.8

Sample: 173161 - SW

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**116**	mg/Kg	50	2.00

Sample: 173161 - SW

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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-Triacontane		122	mg/Kg	1	100	122	10 - 250.4

Sample: 173161 - SW

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.880	mg/Kg	1	1.00	88	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.862	mg/Kg	1	1.00	86	66 - 142.8

Sample: 173162 - SE

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 173162 - SE

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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-Triacontane		125	mg/Kg	1	100	125	10 - 250.4

Sample: 173162 - SE

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.894	mg/Kg	1	1.00	89	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.862	mg/Kg	1	1.00	86	66 - 142.8

Sample: 173163 - F1

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**135**	mg/Kg	50	2.00

Sample: 173163 - F1

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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-Triacontane		125	mg/Kg	1	100	125	10 - 250.4

Sample: 173163 - F1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.873	mg/Kg	1	1.00	87	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.852	mg/Kg	1	1.00	85	66 - 142.8

Sample: 173164 - F2

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 173164 - F2

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		122	mg/Kg	1	100	122	10 - 250.4

Sample: 173164 - F2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.893	mg/Kg	1	1.00	89	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.862	mg/Kg	1	1.00	86	66 - 142.8

Sample: 173165 - F3

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 173165 - F3

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		118	mg/Kg	1	100	118	10 - 250.4

Sample: 173165 - F3

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.901	mg/Kg	1	1.00	90	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.863	mg/Kg	1	1.00	86	66 - 142.8

Sample: 173166 - F4

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 173166 - F4

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		119	mg/Kg	1	100	119	10 - 250.4

Sample: 173166 - F4

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.910	mg/Kg	1	1.00	91	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.863	mg/Kg	1	1.00	86	66 - 142.8

Sample: 173167 - F5

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52289	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44822	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**106**		mg/Kg	50	2.00

Sample: 173167 - F5

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		127	mg/Kg	1	100	127	10 - 250.4

Sample: 173167 - F5

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.908	mg/Kg	1	1.00	91	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.869	mg/Kg	1	1.00	87	66 - 142.8

Sample: 173168 - F6

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52290	Date Analyzed:	2008-09-11	Analyzed By:	AR
Prep Batch:	44823	Sample Preparation:	2008-09-11	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 173168 - F6

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52308	Date Analyzed:	2008-09-11	Analyzed By:	LD
Prep Batch:	44839	Sample Preparation:	2008-09-11	Prepared By:	LD

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-Triacontane		128	mg/Kg	1	100	128	10 - 250.4

Sample: 173168 - F6

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	52309	Date Analyzed:	2008-09-11	Analyzed By:	DC
Prep Batch:	44832	Sample Preparation:	2008-09-11	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.968	mg/Kg	1	1.00	97	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.872	mg/Kg	1	1.00	87	66 - 142.8

Method Blank (1) QC Batch: 52289

QC Batch: 52289 | Date Analyzed: 2008-09-11 | Analyzed By: AR
Prep Batch: 44822 | QC Preparation: 2008-09-11 | Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 52290

QC Batch: 52290 | Date Analyzed: 2008-09-11 | Analyzed By: AR
Prep Batch: 44823 | QC Preparation: 2008-09-11 | Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 52308

QC Batch: 52308 | Date Analyzed: 2008-09-11 | Analyzed By: LD
Prep Batch: 44839 | QC Preparation: 2008-09-11 | Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<15.8	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		120	mg/Kg	1	100	120	30.9 - 146.4

Method Blank (1) QC Batch: 52309

QC Batch: 52309 | Date Analyzed: 2008-09-11 | Analyzed By: DC
Prep Batch: 44832 | QC Preparation: 2008-09-11 | Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.868	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.924	mg/Kg	1	1.00	92	70 - 130

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.864	mg/Kg	1	1.00	86	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 52289 | Date Analyzed: 2008-09-11 | Analyzed By: AR
Prep Batch: 44822 | QC Preparation: 2008-09-11 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<0.500	99	85 - 115

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
Chloride	99.4	mg/Kg	1	100	<0.500	99	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 52290 | Date Analyzed: 2008-09-11 | Analyzed By: AR
Prep Batch: 44823 | QC Preparation: 2008-09-11 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<0.500	99	85 - 115

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
Chloride	101	mg/Kg	1	100	<0.500	101	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 52308 | Date Analyzed: 2008-09-11 | Analyzed By: LD
Prep Batch: 44839 | QC Preparation: 2008-09-11 | Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	299	mg/Kg	1	250	<15.8	120	27.8 - 152.1

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	279	mg/Kg	1	250	<15.8	112	27.8 - 152.1	7	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
n-Triacontane	121	118	mg/Kg	1	100	121	118	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 52309 | Date Analyzed: 2008-09-11 | Analyzed By: DC
Prep Batch: 44832 | QC Preparation: 2008-09-11 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.00	mg/Kg	1	10.0	0.868	81	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
GRO	9.26	mg/Kg	1	10.0	0.868	84	70 - 130	3	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)	0.960	0.960	mg/Kg	1	1.00	96	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.896	0.905	mg/Kg	1	1.00	90	90	70 - 130

Matrix Spike (MS-1) Spiked Sample: 173167

QC Batch: 52289 | Date Analyzed: 2008-09-11 | Analyzed By: AR
Prep Batch: 44822 | QC Preparation: 2008-09-11 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	4930	mg/Kg	50	5000	106	96	85 - 115

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	4990	mg/Kg	50	5000	106	98	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 173245

QC Batch: 52290 Date Analyzed: 2008-09-11 Analyzed By: AR
Prep Batch: 44823 QC Preparation: 2008-09-11 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8190	mg/Kg	50	5000	3420	95	85 - 115

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	8300	mg/Kg	50	5000	3420	98	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 173158

QC Batch: 52308 Date Analyzed: 2008-09-11 Analyzed By: LD
Prep Batch: 44839 QC Preparation: 2008-09-11 Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	291	mg/Kg	1	250	<15.8	116	18 - 179.5

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	273	mg/Kg	1	250	<15.8	109	18 - 179.5	6	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-Triacontane	129	121	mg/Kg	1	100	129	121	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 173222

QC Batch: 52309 Date Analyzed: 2008-09-11 Analyzed By: DC
Prep Batch: 44832 QC Preparation: 2008-09-11 Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	22.9	mg/Kg	2	20.0	<0.342	114	22.3 - 134.6

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	21.5	mg/Kg	2	20.0	<0.342	108	22.3 - 134.6	6	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)	1.85	1.74	mg/Kg	2	2	92	87	68.4 - 113.1
4-Bromofluorobenzene (4-BFB)	1.86	1.90	mg/Kg	2	2	93	95	66.7 - 134.3

Standard (ICV-1)

QC Batch: 52289 Date Analyzed: 2008-09-11 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2008-09-11

Standard (CCV-1)

QC Batch: 52289 Date Analyzed: 2008-09-11 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2008-09-11

Standard (ICV-1)

QC Batch: 52290 Date Analyzed: 2008-09-11 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2008-09-11

Standard (CCV-1)

QC Batch: 52290 Date Analyzed: 2008-09-11 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.3	97	85 - 115	2008-09-11

Standard (CCV-1)

QC Batch: 52308 Date Analyzed: 2008-09-11 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	284	114	85 - 115	2008-09-11

Standard (CCV-2)

QC Batch: 52308 Date Analyzed: 2008-09-11 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	287	115	85 - 115	2008-09-11

Standard (CCV-3)

QC Batch: 52308 Date Analyzed: 2008-09-11 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	288	115	85 - 115	2008-09-11

Standard (ICV-1)

QC Batch: 52309 Date Analyzed: 2008-09-11 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.06	106	85 - 115	2008-09-11

Standard (CCV-1)

QC Batch: 52309 Date Analyzed: 2008-09-11 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.04	104	85 - 115	2008-09-11

LAB Order ID # 8091108 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: BTA Oil Producers
Phone #: (432) 553-5352
Address: (Street, City, Zip) 104 S. Pecos St.
Fax #: (432) 683-0325
Contact Person: Skip Beka
E-mail: sbeka@btaoil.com
Invoice to: (If different from above)
Project #:
Project Name: Owl SWD Battery
Project Location (including state): Owl SWD Facility
Sampler Signature: Skip Beka

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
73156	NW	1	4oz		X							X		9/10/08	4:30
154	NE	1													4:35
160	C	1													4:38
161	SW	1													4:40
162	SE	1													4:43
163	F1	1													4:46
164	F2	1													4:49
165	F3	1													4:53
166	F4	1													4:58
167	F5	1													5:01
168	F6	1													5:07

ANALYSIS REQUEST	
MTBE 8021B / 602 / 8260B / 624	
BTEX 8021B / 602 / 8260B / 624	
TPH 418.1 / TX1005 / TX1005 Ext(C35)	
TPH 8015 GRO / DRO / TVHC	X
PAH 8270C / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C / 625	
PCB's 8082 / 608	
Pesticides 8081A / 608	
BOD, TSS, pH	
Moisture Content	
Chlorides	X
Turn Around Time if different from standard	
Hold	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Skip Beka	BTA	9/11/08	9:52	Laura Coufal		9-11-08	9:52	3.2
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact: Yes / No / NA
Headspace: Yes / No / NA
Log-in Review: OK

REMARKS: ~~BTEX~~ BTEX on highest GRO + DRO

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

Carrier # CARRY IN

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

ORIGINAL COPY

Summary Report

Skip Baca
BTA Oil Producers
104 S. Pecos
Midland, TX, 79701

Report Date: September 15, 2008

Work Order: 8091208

Project Location: 24 miles from Orla
Project Name: Owl SWD Battery

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
173287	Owl Background	soil	2008-09-11	15:30	2008-09-12

Sample: 173287 - Owl Background

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

TRACEANALYSIS, INC.

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5002 Basin Street Suite A1 | Midland, Texas 79703 | | 432•689•6301 | FAX 432•689•6313
6015 Harris Parkway, Suite 110 | Ft Worth, Texas 76132 | | 817•201•5260 |
E-Mail: lab@traceanalysis.com

Certifications

WBE: 237019 **HUB:** 1752439743100-86536 **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

Skip Baca
BTA Oil Producers
104 S. Pecos
Midland, TX, 79701

Report Date: September 15, 2008

Work Order: 8091208

Project Location: 24 miles from Orla
Project Name: Owl SWD Battery
Project Number: Owl SWD Battery

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
173287	Owl Background	soil	2008-09-11	15:30	2008-09-12

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.

TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Owl SWD Battery were received by TraceAnalysis, Inc. on 2008-09-12 and assigned to work order 8091208. Samples for work order 8091208 were received intact at a temperature of 3.7 deg. C.

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

Test	Method
Chloride (Titration)	SM 4500-Cl B

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 8091208 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: 173287 - Owl Background

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	52364	Date Analyzed:	2008-09-15	Analyzed By:	AG
Prep Batch:	44890	Sample Preparation:	2008-09-15	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Method Blank (1) QC Batch: 52364

QC Batch:	52364	Date Analyzed:	2008-09-15	Analyzed By:	AG
Prep Batch:	44890	QC Preparation:	2008-09-15	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch:	52364	Date Analyzed:	2008-09-15	Analyzed By:	AG
Prep Batch:	44890	QC Preparation:	2008-09-15	Prepared By:	AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.5	mg/Kg	1	100	<0.500	100	85 - 115

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
Chloride	99.5	mg/Kg	1	100	<0.500	100	85 - 115	0	20

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

Matrix Spike (MS-1) Spiked Sample: 173287

QC Batch:	52364	Date Analyzed:	2008-09-15	Analyzed By:	AG
Prep Batch:	44890	QC Preparation:	2008-09-15	Prepared By:	AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5070	mg/Kg	50	5000	95.7	99	85 - 115

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	5020	mg/Kg	50	5000	95.7	98	85 - 115	1	20

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

Standard (ICV-1)

QC Batch: 52364 Date Analyzed: 2008-09-15 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-09-15

Standard (CCV-1)

QC Batch: 52364 Date Analyzed: 2008-09-15 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2008-09-15

LAB Order ID # 8091208 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: BTA Oil Producers, LLC
Phone #: (432) 553-5352
Address: (Street, City, Zip) 104 S. Pecos St.
Fax #: (432) 683-0325
Contact Person: Skip Brea
E-mail: sbrea@btaoil.com
Invoice to: (If different from above)
Project #:
Project Name: Owl Battery
Project Location (Including state): Owl Facility
Sampler Signature: Skip Brea

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chlorides				Turn Around Time if different from standard	Hold
172287	Owl Background	1	4oz		X							X		9/12/08	3:30				X													X					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Skip Brea	BTA	9/12/08	9:54		Trace	9/12/08	9:54	3.7°C

LAB USE ONLY

REMARKS: All tests - Midland

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

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Carrier # Campbell

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