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ENVIRONMENTAL CONSULTING
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SOIL CLOSURE REPORT
PARDUE B TANK BATTERY LIGHTNING STRIKE
EDDY COUNTY, NEW MEXICO
NMOCD REF. # 2RP-326
SECTION 11, TOWNSHIP 23 SOUTH, RANGE 28 EAST

PREPARED FOR:

MR. JOSEPH BACA
BTA OIL PRODUCERS
104 SOUTH PECOS
MIDLAND, TEXAS 79701

PREPARED BY:

TALON/LPE
408 TEXAS STREET
ARTESIA, NEW MEXICO 88210

DISTRIBUTION:
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COPY 2 – BTA OIL PRODUCERS-MIDLAND
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FEBRUARY 12, 2010

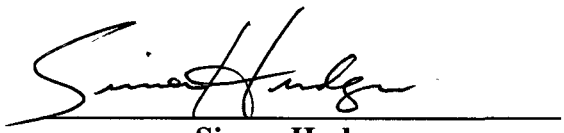
SOIL CLOSURE REPORT

PARDUE B TANK BATTERY LIGHTNING STRIKE
EDDY COUNTY, NEW MEXICO
NMOCD REF. # 2RP-326

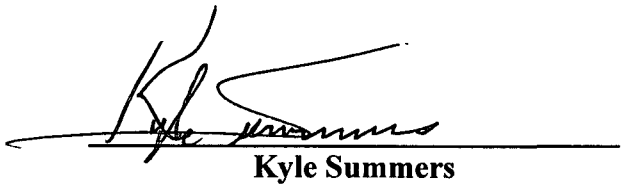
BTA OIL PRODUCERS
104 SOUTH PECOS
MIDLAND, TEXAS

TALON/LPE PROJECT NO. 701165.002.01

Prepared by:



Simon Hudgens
Environmental Scientist



Kyle Summers
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March 12, 2010

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Mississippi Potash		Same		
File		Talon/LPE	408 Texas Street Artesia, New Mexico 88210	ksummers@talonlpe.com

NMOCD – New Mexico Oil Conservation Division

TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION

1.1 Objectives and Site Background

Talon/LPE was retained by BTA Oil Producers (BTA) to conduct site assessment and remediation activities following a lightning strike to a storage tank at the Pardue B Tank Battery in Eddy County, New Mexico. The purpose of this report is to summarize the assessment and remediation activities conducted at this site and to document the current conditions supporting closure of this site.

The release site is located approximately 2.3 miles northeast of Loving, in Eddy County, New Mexico. The GPS coordinates for the site are 32.318749° N latitude and 104.064621° W longitude. The release occurred on property owned by Mississippi Potash and is surrounded by alfalfa fields and oil production appurtenances. The site is located in a rural area with no surface water within a 1,000 foot radius. One residence is located approximately 800 feet to the northwest of the release. A topographic map is provided as Figure 3 in Appendix A.

A crude oil/produced water release occurred at the site on July 29, 2009 as the result of a lightning strike to a storage tank. BTA personnel estimated that two hundred eighty five (285) barrels of crude oil and produced water were released, and over two hundred (200) barrels (predominantly water) were initially recovered during response activities. The recovered water was transported to an approved disposal facility. The release was verbally reported to the New Mexico Oil Conservation Division (NMOCD) on July 30, 2009 and an initial C-141 Form was submitted to the NMOCD on July 30, 2009. The site was assigned NMOCD Reference number 2RP-326.

1.2 Regulatory Framework

1.2.1 Soil Delineation and Impact Abatement

The NMOCD has developed guidelines for all federal, state, and fee lands in New Mexico for remediating contaminants resulting from leaks, spills, and releases of oilfield wastes or products. This guidance assigns ranking scores to sites based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, and provides remediation/clean-up targets for Total Benzene, benzene, toluene, ethylbenzene, and xylenes (Total BTEX), and total petroleum hydrocarbons (TPH). Based on site visits, the site is located in a rural area with no surface water within a 1,000 foot radius of the release point. A residence is located approximately 800 feet to the northwest. A potentially active irrigation well is visible in the field south of the site. Based on nearby excavation information, the estimated depth to groundwater at the site is <50 feet below ground surface (bgs). Groundwater gradient direction is not determined for the site at this time, but is anticipated to be generally south and/or east, based on the proximity of the Pecos River.

According to NMOCD guidelines, the site ranking for this site is between 20 and 40. The ranking process is summarized herein:

Criteria:	Site Condition:	Ranking Score:
Depth to Groundwater	<50	20
Wellhead Protection Area	(potentially active irrigation well)	(20)
Distance to Nearest Surface Water Body	>1,000 feet	0
Total Ranking:		20-40

Based on the calculated rating, the applicable remediation guidelines for this site are as follows:

Benzene	**10 ppm**
Total BTEX	**50 ppm**
TPH	**100 ppm**

2.0 SOIL EXCAVATION AND ABATEMENT ACTIVITIES

2.1 Soil Excavation Activities

On August 6, 2009, Talon mobilized equipment and personnel to the site to begin initial soil excavation and abatement activities. Utilizing a backhoe, Talon initially assisted in the identification and location of buried lines beneath the site. Once lines had been cleared and/or removed or rerouted, Talon initiated excavation activities. During the first stage of intrusive abatement, a track hoe was utilized to excavate the visually impacted source area. All removed material was transported by truck to Lea Land Disposal in Lea County, New Mexico. Additional site activities are described in the following text.

After the first stage of the excavation, based on field titration analyses and laboratory samples, it was evident that the hydrocarbon impact had been abated, and that the chloride impact had not yet been vertically defined. The remaining excavation activities focused on the vertical delineation and abatement of the chloride impact, which appeared to be greatest in the areas where the release had pooled, migrating downward into the sandy soils.

On August 26, 2009, Talon personnel utilized a backhoe to obtain vertical delineation samples for chloride analysis. Based on these analytical results, the excavation was divided into grids for discrete abatement by soil removal. Beginning on October 1, 2009, the over-excavation activities were initiated. Each grid was excavated to the necessary depth based on the results of the vertical delineation sampling. Total excavation depths and soil sample designations are represented on Figure 2.

The final excavation measured approximately 60 feet in width, 225 feet in length. The depth of the final excavation ranged from two (2) to ten (10) feet bgs depending on the depth of chloride impact in each individual grid section. Ultimately, approximately 4,500 cubic yards of impacted soil were transported to Lea Land Disposal Facility. Photographic documentation of the soil excavation activities is presented in Appendix D. Disposal documentation is presented in Appendix E.

2.2 Backfill, Compaction and Site Grading Activities

Subsequent to soil remediation activities and verbal approval from the NMOCD, the excavated area was backfilled. Native material from a nearby borrow pit was utilized as backfill, ensuring the use of "like" material. When backfill was complete, a front-end loader was utilized to restore the site back to natural grade. Field activities were deemed complete on November 9, 2009.

3.0 SOIL SAMPLING ACTIVITIES

3.1 Investigative Soil Sampling

3.1.1 Sample Collection

Upon completion of the first stage of excavation activities, composite samples (Comp. A, Comp. B, and Comp. C), each consisting of five aliquots, were collected from the site excavation and analyzed for total petroleum hydrocarbons (TPH) GRO/DRO, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total chlorides. Analytical results for these samples indicate the initial excavation activities were successful at abating the crude oil impact to the soils. However, chloride impact was still evident above the NMOCD recommended guideline of 250mg/kg. These analytical results are discussed in Section 3.1.2.

In addition to the initial composite samples, a total of four (4) background samples were collected near the site. These samples were collected approximately 100 feet east (E-1' and E-3') and 100 feet west (W-1' and W-3') of the spill area, to determine the chloride concentrations of the surrounding shallow soils. The results from this event are discussed in Section 3.1.2.

On August 26, 2009, Talon personnel utilized a backhoe to obtain vertical delineation samples from the spill area. Prior to obtaining these samples, the excavation was divided into ten (10) grid sections (See Figure 1). The division into grid sections allowed delineation that would provide maximum abatement while minimizing excessive clean soil removal. A total of ten grid sections measuring approximately 30 feet by 45 feet were delineated. The original sample depths as designated in the sample ID were measured from the floor of the partially excavated spill site. For reference and clarification, the depth below ground surface is provided in a separate data column in Table 1.

In grid sections where the vertical delineation sampling did not identify the total depth of impact, an additional final confirmation sample was collected concurrent with the excavation activities. These analytical results are also presented in Table 1, and are discussed in Section 3.1.2.

All soil samples were collected by Talon personnel wearing clean nitrile gloves with disposable sampling tools. The soil samples were containerized in laboratory provided sample containers, stored on ice or otherwise refrigerated, and transported to TraceAnalysis in Midland, Texas for analysis of; BTEX using SW-846 Method 8021B, TPH analysis using EPA Method 418.1 and SW-846 Method 8015 GRO/DRO, and total chlorides. All analytical testing was performed on a standard turn-around basis.

3.1.2 Analytical Results

Analytical results for the composite samples collected during the first stage of remediation indicate the initial excavation activities were successful at abating the crude oil impact to the soils. However, vertical chloride impact was not adequately defined, with the highest measured composite sample concentration (2,450 mg/kg) occurring in the central portion of the spill area. Certified copies of the laboratory analytical results and proper chain of custody documentation are presented in Appendix D. A summary of the soil sample analytical results is

presented on Table 1.

After the initial sampling results were reviewed, a total of four (4) background samples were collected near the site. These samples were collected approximately 100 feet east (E-1' and E-3') and 100 feet west (W-1' and W-3') of the spill area boundary, to determine the shallow chloride concentrations of the surrounding shallow soils. The analytical results from these samples indicate that apparently naturally-occurring chlorides are present in the area, as the NMOCD recommended limit (250 mg/kg) was exceeded at three (3) feet bgs in the east sample (311 mg/kg).

Prior to initiating further excavation at the site, Talon performed vertical delineation sampling of the spill area as described in Section 3.1, to assess the extent of remaining chloride impact. The highest chloride concentrations corresponded with sample grid sections K, E, and H (See Figure 2), which is where the predominant spill pooling occurred. The highest reported concentration was associated with grab sample K-2 (5.5'bgs) at 13,000 mg/kg total chlorides. Overall, the results of the vertical delineation sampling indicate a generally steady reduction of chloride impact with increased depth for each of the grid sections.

As a result of the delineation sampling event, grid sections A, B, C, G, I, and K were successfully delineated, and target excavation depths were identified (Table 1). However, vertical delineation was not achieved by this sampling event for grid sections D, E, F, and H (Reference Table 1 and Figure 2). These areas were further over-excavated during the removal of the identified impacted material, and additional samples (BH-D, BH-E, BH-F, and BH-H) were collected during October, 2009. The resulting laboratory analyses indicate that vertical delineation and remediation was clearly achieved for grid sections E and F. Reported results for grid sections D and H indicate bottom-hole chloride concentrations of 320 mg/kg and 532 mg/kg respectively.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

A crude oil and produced water release occurred at the site on July 29, 2009. BTA personnel estimated that two hundred eighty five barrels of crude oil and water were released and two hundred barrels (predominantly produced water) were recovered during emergency response activities. On August 6, 2009, following the emergency response activities, excavation and remediation activities were initiated. A total of approximately 4,500 yards of crude oil affected soil was excavated and transported to Lea Land Disposal Facility. Soil samples were collected from the excavation throughout the abatement activities. Based on review of the final analytical results, BTA received verbal approval from the NMOCD District 2 office to close the excavation. The excavation was backfilled with material from a nearby borrow pit, and the surface was returned to previous grade.

4.2 Recommendations

The following activities/actions are recommended for the site:

- Based on the final analytical results from excavation, remaining BTEX and TPH concentrations are all below NMOCD Remediation Thresholds.

- With the exception of two small (45' by 30') grid sections (320 mg/kg and 532 mg/kg), the remaining chloride concentrations in the spill area are below the NMOCD recommended limit.

- Based on the final analytical data from the excavation, and taking into consideration that one of the background samples exhibited chloride concentrations (311 mg/kg) above the NMOCD recommended limit, no further action is proposed and closure of site soils should be requested from the NMOCD.

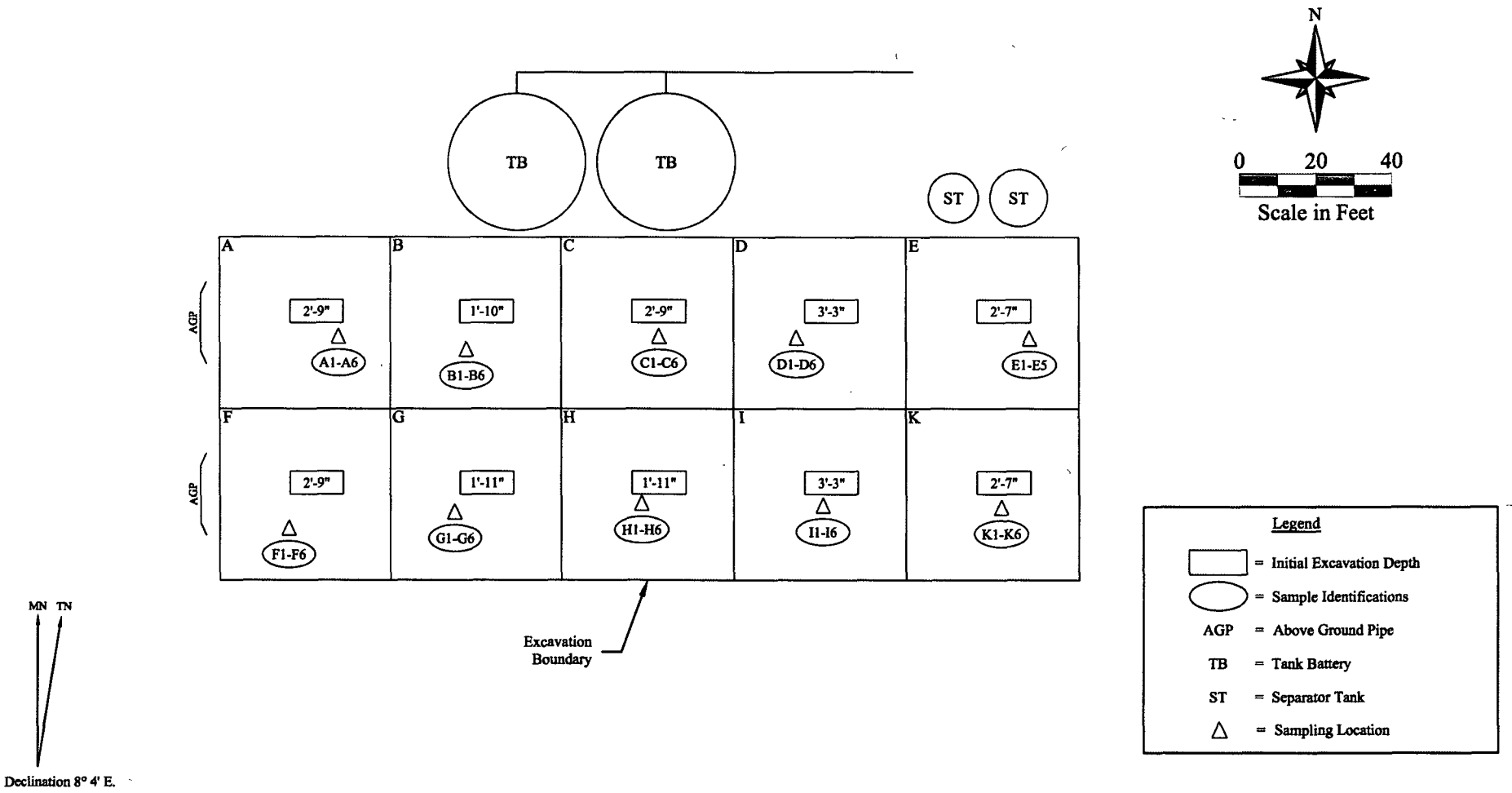
APPENDIX A

FIGURES

Figure 1 – Investigative Soil Sampling Location Map

Figure 2 – Site Plan with Confirmation Sample Location Map

Figure 3 – Topographic Map



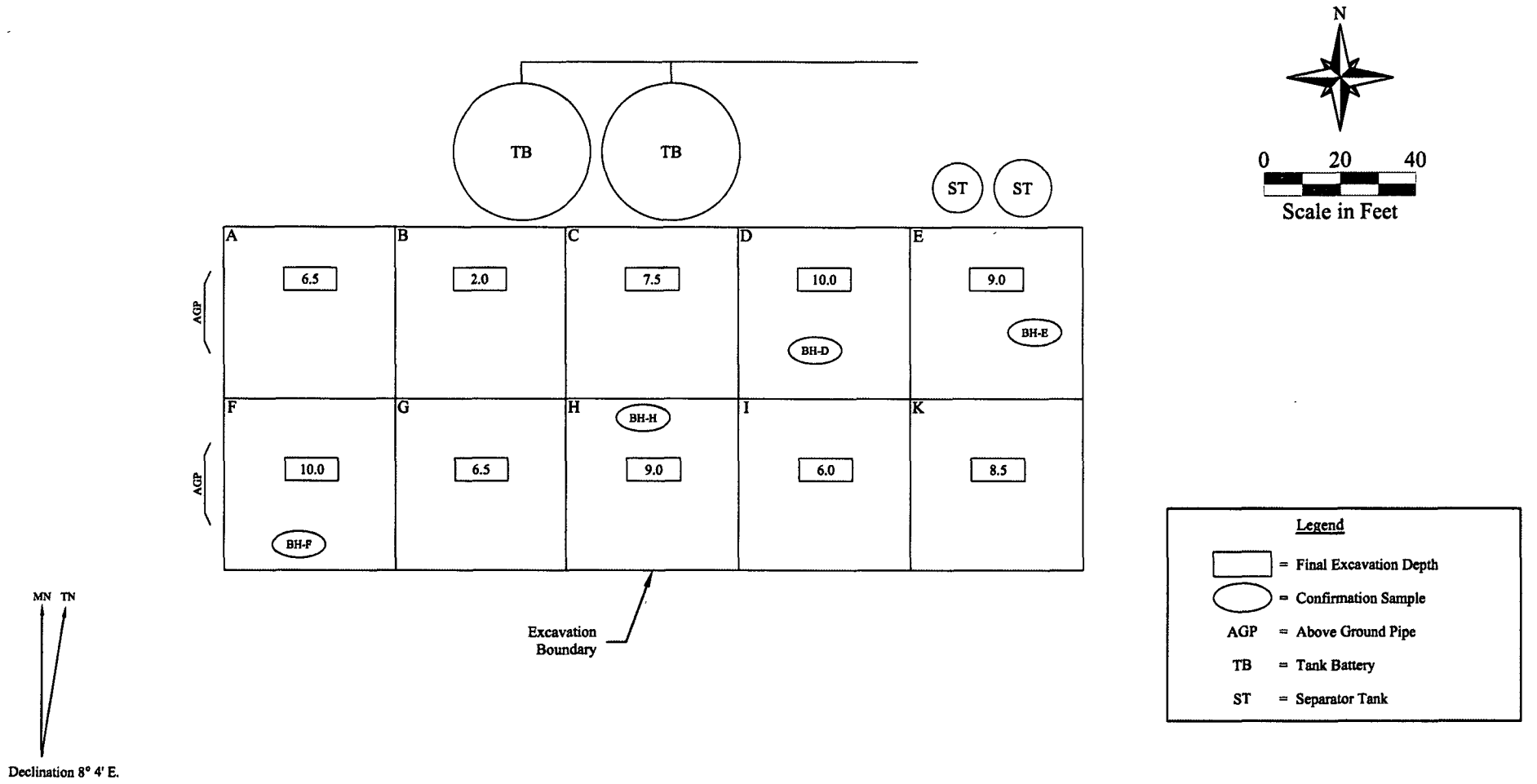
TALON LPE

Date:	02/24/2010
Scale:	1" = 40'
Drawn By:	TJS

BTA Pardue B

Eddy County, New Mexico

Figure 1 - Initial Excavation & Sample Locations

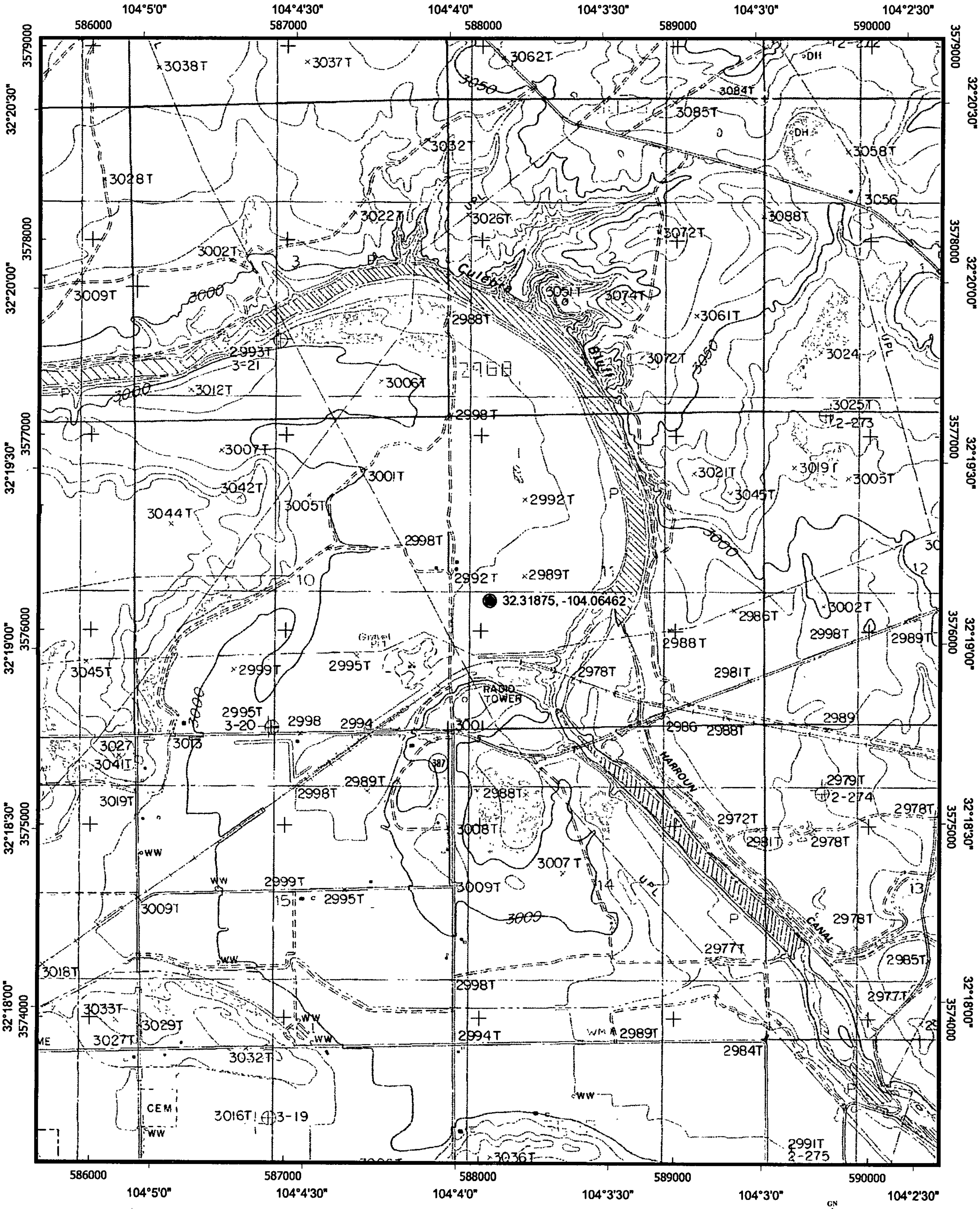


TALON LPE

Date: 02/24/2010
Scale: 1" = 40'
Drawn By: TJS

BTA Pardue B
Eddy County, New Mexico

Figure 2 - Final Excavation & Confirmation Sample Locations



1:25000 Scale

0 0.25 0.5 0.75 1 Miles

0 0.25 0.5 0.75 1 Kilometers

Universal Transverse Mercator (UTM) Projection Zone13
North American Datum of 1983 (NAD83)

UTM Grid shown in Blue

GN
MN

Magnetic declination at center of map on
February 19, 2010

APPENDIX B

TABLES

Table 1 – Summary Soil Analytical Data

Table 1 - Summary of Soil Analytical Data
BTA Oil Producers - Pardue B Lightning Strike
NMOCD Ref.# 2R-326
EDDY COUNTY, NEW MEXICO
Talon/LPE Project Number 701165.002.01

All concentrations are in mg/Kg

Sample Designation*	Date Sampled	Total Depth (feet bgs)	DRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total Chloride
Initial Excavation Results									
Comp A	08/11/09	3	<50.0	1.10	<0.0100	<0.0100	<0.0100	<0.0100	**933**
Comp B	08/11/09	3	<50.0	5.26	<0.0100	<0.0100	<0.0100	0.209	**2540**
Comp C	08/11/09	3	<50.0	5.16	<0.0100	<0.0100	<0.0100	<0.0100	**1350**
P6 (east wall)	08/18/09	6	N/A	N/A	N/A	N/A	N/A	N/A	<200**
Background Samples									
E-1	08/18/09	1	N/A	N/A	N/A	N/A	N/A	N/A	<200
E-3	08/18/09	3	N/A	N/A	N/A	N/A	N/A	N/A	**311**
W-1	08/18/09	1	N/A	N/A	N/A	N/A	N/A	N/A	213
W-3	08/18/09	3	N/A	N/A	N/A	N/A	N/A	N/A	<200
Vertical Delineation Samples									
A-2'	08/26/09	5.5	N/A	N/A	N/A	N/A	N/A	N/A	**930**
A-3'	08/26/09	6.5	N/A	N/A	N/A	N/A	N/A	N/A	41.6
A-4'	08/26/09	7.5	N/A	N/A	N/A	N/A	N/A	N/A	51.8**
A-5'	08/26/09	8.5	N/A	N/A	N/A	N/A	N/A	N/A	240
A-6'	08/26/09	9.5	N/A	N/A	N/A	N/A	N/A	N/A	55.6
B-2'	08/26/09	3	N/A	N/A	N/A	N/A	N/A	N/A	97.5
B-3'	08/26/09	4	N/A	N/A	N/A	N/A	N/A	N/A	36.6**
B-4'	08/26/09	5	N/A	N/A	N/A	N/A	N/A	N/A	<32.5
B-5'	08/26/09	6	N/A	N/A	N/A	N/A	N/A	N/A	36.6
B-6'	08/26/09	7	N/A	N/A	N/A	N/A	N/A	N/A	83.6

Table 1 - Summary of Soil Analytical Data
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NMOCD Ref.# 2R-326
EDDY COUNTY, NEW MEXICO
Talon/LPE Project Number 701165.002.01

All concentrations are in mg/Kg

Sample Designation*	Date Sampled	Total Depth (feet bgs)	DRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total Chloride
C-2'	08/26/09	4.5	N/A	N/A	N/A	N/A	N/A	N/A	**879**
C-3'	08/26/09	5.5	N/A	N/A	N/A	N/A	N/A	N/A	**747**
C-4'	08/26/09	6.5	N/A	N/A	N/A	N/A	N/A	N/A	**494**
C-5'	08/26/09	7.5	N/A	N/A	N/A	N/A	N/A	N/A	161
C-6'	08/26/09	8.5	N/A	N/A	N/A	N/A	N/A	N/A	151
Vertical Delineation Samples (cont'd)									
D-2'	08/26/09	5	N/A	N/A	N/A	N/A	N/A	N/A	**2170**
D-3'	08/26/09	6	N/A	N/A	N/A	N/A	N/A	N/A	**1400**
D-4'	08/26/09	7	N/A	N/A	N/A	N/A	N/A	N/A	**1460**
D-5'	08/26/09	8	N/A	N/A	N/A	N/A	N/A	N/A	**1490**
D-6'	08/26/09	9	N/A	N/A	N/A	N/A	N/A	N/A	**962**
E-2'	08/26/09	5	N/A	N/A	N/A	N/A	N/A	N/A	**6150**
E-3'	08/26/09	6	N/A	N/A	N/A	N/A	N/A	N/A	**2720**
E-4'	08/26/09	7	N/A	N/A	N/A	N/A	N/A	N/A	**2000**
E-5'	08/26/09	8	N/A	N/A	N/A	N/A	N/A	N/A	**446**
F-2'	08/26/09	5	N/A	N/A	N/A	N/A	N/A	N/A	101**
F-3'	08/26/09	6	N/A	N/A	N/A	N/A	N/A	N/A	**584**
F-4'	08/26/09	7	N/A	N/A	N/A	N/A	N/A	N/A	**766**
F-5'	08/26/09	8	N/A	N/A	N/A	N/A	N/A	N/A	**1350**
F-6'	08/26/09	9	N/A	N/A	N/A	N/A	N/A	N/A	**772**
G-2'	08/26/09	4.5	N/A	N/A	N/A	N/A	N/A	N/A	**453**

Table 1 - Summary of Soil Analytical Data
BTA Oil Producers - Pardue B Lightning Strike
NMOCD Ref.# 2R-326
EDDY COUNTY, NEW MEXICO
Talon/LPE Project Number 701165.002.01

All concentrations are in mg/Kg

Sample Designation*	Date Sampled	Total Depth (feet bgs)	DRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total Chloride
G-3'	08/26/09	5.5	N/A	N/A	N/A	N/A	N/A	N/A	**746**
G-4'	08/26/09	6.5	N/A	N/A	N/A	N/A	N/A	N/A	120
G-5'	08/26/09	7.5	N/A	N/A	N/A	N/A	N/A	N/A	<32.5**
G-6'	08/26/09	8.5	N/A	N/A	N/A	N/A	N/A	N/A	85.6
H-2'	08/26/09	4	N/A	N/A	N/A	N/A	N/A	N/A	**9220**
H-3'	08/26/09	5	N/A	N/A	N/A	N/A	N/A	N/A	**4030**
H-4'	08/26/09	6	N/A	N/A	N/A	N/A	N/A	N/A	**1010**
H-5'	08/26/09	7	N/A	N/A	N/A	N/A	N/A	N/A	**1490**
H-6'	08/26/09	8	N/A	N/A	N/A	N/A	N/A	N/A	**1430**
Vertical Delineation Samples (cont'd)									
I-2'	08/26/09	6	N/A	N/A	N/A	N/A	N/A	N/A	226
I-3'	08/26/09	7	N/A	N/A	N/A	N/A	N/A	N/A	<32.5**
I-4'	08/26/09	8	N/A	N/A	N/A	N/A	N/A	N/A	<32.5
I-5'	08/26/09	9	N/A	N/A	N/A	N/A	N/A	N/A	<162
I-6'	08/26/09	10	N/A	N/A	N/A	N/A	N/A	N/A	<32.5
K-2'	08/26/09	5.5	N/A	N/A	N/A	N/A	N/A	N/A	**13000**
K-3'	08/26/09	6.5	N/A	N/A	N/A	N/A	N/A	N/A	**6120**
K-4'	08/26/09	7.5	N/A	N/A	N/A	N/A	N/A	N/A	**1250**
K-5'	08/26/09	8.5	N/A	N/A	N/A	N/A	N/A	N/A	<32.5

Table 1 - Summary of Soil Analytical Data
BTA Oil Producers - Pardue B Lightning Strike
NMOCD Ref.# 2R-326
EDDY COUNTY, NEW MEXICO
Talon/LPE Project Number 701165.002.01

All concentrations are in mg/Kg

Sample Designation*	Date Sampled	Total Depth (feet bgs)	DRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total Chloride
Final Over-Excavation Confirmation Results									
BH-D	10/02/09	10	N/A	N/A	N/A	N/A	N/A	N/A	**320**
BH-E	10/07/09	9	N/A	N/A	N/A	N/A	N/A	N/A	<200
BH-F	10/07/09	10	N/A	N/A	N/A	N/A	N/A	N/A	<200
BH-H	10/08/09	9	N/A	N/A	N/A	N/A	N/A	N/A	**532**
NMOCD Remediation Guildelines/Recommendation					**10**				**250**

** Sample Depth listed as part of the ID were measured from the excavation floor at the time of sampling*

Bolded *values are in excess of the NMOCD Remediation Thresholds*

BGS = Below Ground Surface

N/A = Not Analyzed

Yellow shading indicates a final chloride confirmation sample for the indicated grid section

** Collected at or near sidewall intersection

APPENDIX C

LABORATORY ANALYTICAL DATA REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Summary Report

Kyle Summers
Talon LPE-Midland
2901 State Highway 349
Midland, TX 79706

Report Date: August 13, 2009

Work Order: 9081224

Project Location: Eddy County, NM
Project Name: Pardue B
Project Number: 701165.002.01

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
205565	Comp A	soil	2009-08-11	11:30	2009-08-12
205566	Comp B	soil	2009-08-11	11:38	2009-08-12
205567	Comp C	soil	2009-08-11	11:40	2009-08-12

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
205565 - Comp A	<50.0	**1.10**
205566 - Comp B	<50.0	**5.26**
205567 - Comp C	<50.0	**5.16**

Sample: 205565 - Comp A

Param	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.0100
Toluene		<0.0100	mg/Kg	0.0100
Ethylbenzene		<0.0100	mg/Kg	0.0100
Xylene		<0.0100	mg/Kg	0.0100
Total BTEX		<0.0600	mg/Kg	0.0600
Chloride		**933**	mg/Kg	4.00

Sample: 205566 - Comp B

Param	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.0100
Toluene		<0.0100	mg/Kg	0.0100

continued ...

sample 205566 continued ...

Param	Flag	Result	Units	RL
Ethylbenzene		<0.0100	mg/Kg	0.0100
Xylene		**0.209**	mg/Kg	0.0100
Total BTEX		**0.209**	mg/Kg	0.0600
Chloride		**2540**	mg/Kg	4.00

Sample: 205567 - Comp C

Param	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.0100
Toluene		<0.0100	mg/Kg	0.0100
Ethylbenzene		<0.0100	mg/Kg	0.0100
Xylene		<0.0100	mg/Kg	0.0100
Total BTEX		<0.0600	mg/Kg	0.0600
Chloride		**1350**	mg/Kg	4.00

TRACEANALYSIS, INC.

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Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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

Kyle Summers
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: October 20, 2009

Work Order: 9081224

Project Location: Eddy Co., NM
Project Name: Pardue B
Project Number: 701165.002.01

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
205565	Comp. A	soil	2009-08-11	11:30	2009-08-12
205566	Comp. B	soil	2009-08-11	11:38	2009-08-12
205567	Comp. C	soil	2009-08-11	11:40	2009-08-12

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.

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 Pardue B were received by TraceAnalysis, Inc. on 2009-08-12 and assigned to work order 9081224. Samples for work order 9081224 were received intact at a temperature of 9.0 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	53252	2009-08-12 at 15:25	62419	2009-08-12 at 15:25
Chloride (Titration)	SM 4500-Cl B	53238	2009-08-11 at 11:00	62403	2009-08-12 at 16:06
Total BTEX	S 8021B	53252	2009-08-12 at 15:25	62419	2009-08-12 at 15:25
TPH 418.1	E 418.1	53442	2009-08-18 at 12:00	62623	2009-08-18 at 14:27
TPH DRO	Mod. 8015B	53230	2009-08-12 at 10:02	62392	2009-08-12 at 10:02
TPH GRO	S 8015B	53252	2009-08-12 at 15:25	62420	2009-08-12 at 15:25

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 9081224 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: 205565 - Comp. A

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	62419	Date Analyzed:	2009-08-12	Analyzed By:	ME
Prep Batch:	53252	Sample Preparation:	2009-08-12	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0600	mg/Kg	1	0.0600

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00	102	49 - 129.7
4-Bromofluorobenzene (4-BFB)		2.01	mg/Kg	1	2.00	100	45.2 - 144.3

Sample: 205565 - Comp. A

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62403	Date Analyzed:	2009-08-12	Analyzed By:	AR
Prep Batch:	53238	Sample Preparation:	2009-08-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**933**	mg/Kg	50	4.00

Sample: 205565 - Comp. A

Laboratory:	Lubbock				
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	62623	Date Analyzed:	2009-08-18	Analyzed By:	CM
Prep Batch:	53442	Sample Preparation:	2009-08-18	Prepared By:	CM

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 205565 - Comp. A

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62392	Date Analyzed:	2009-08-12	Analyzed By:	kg
Prep Batch:	53230	Sample Preparation:	2009-08-12	Prepared By:	kg

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		101	mg/Kg	1	100	101	13.2 - 219.3

Sample: 205565 - Comp. A

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	62420	Date Analyzed:	2009-08-12	Analyzed By:	ME
Prep Batch:	53252	Sample Preparation:	2009-08-12	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**1.10**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		2.18	mg/Kg	1	2.00	109	31 - 135

Sample: 205566 - Comp. B

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	62419	Date Analyzed:	2009-08-12	Analyzed By:	ME
Prep Batch:	53252	Sample Preparation:	2009-08-12	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		<0.0100		mg/Kg	1	0.0100
Ethylbenzene		<0.0100		mg/Kg	1	0.0100
Xylene		**0.209**		mg/Kg	1	0.0100
Total BTEX		**0.209**		mg/Kg	1	0.0600

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.91	mg/Kg	1	2.00	96	45.2 - 144.3

Sample: 205566 - Comp. B

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62403	Date Analyzed:	2009-08-12	Analyzed By:	AR
Prep Batch:	53238	Sample Preparation:	2009-08-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2540**	mg/Kg	100	4.00

Sample: 205566 - Comp. B

Laboratory:	Lubbock				
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	62623	Date Analyzed:	2009-08-18	Analyzed By:	CM
Prep Batch:	53442	Sample Preparation:	2009-08-18	Prepared By:	CM

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 205566 - Comp. B

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62392	Date Analyzed:	2009-08-12	Analyzed By:	kg
Prep Batch:	53230	Sample Preparation:	2009-08-12	Prepared By:	kg

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		104	mg/Kg	1	100	104	13.2 - 219.3

Sample: 205566 - Comp. B

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	62420	Date Analyzed:	2009-08-12	Analyzed By:	ME
Prep Batch:	53252	Sample Preparation:	2009-08-12	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.26**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		2.09	mg/Kg	1	2.00	104	31 - 135

Sample: 205567 - Comp. C

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	62419	Date Analyzed:	2009-08-12	Analyzed By:	ME
Prep Batch:	53252	Sample Preparation:	2009-08-12	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100
Total BTEX		<0.0600	mg/Kg	1	0.0600

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.01	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.85	mg/Kg	1	2.00	92	45.2 - 144.3

Sample: 205567 - Comp. C

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62403	Date Analyzed:	2009-08-12	Analyzed By:	AR
Prep Batch:	53238	Sample Preparation:	2009-08-12	Prepared By:	AR

continued ...

sample 205567 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1350**	mg/Kg	50	4.00

Sample: 205567 - Comp. C

Laboratory:	Lubbock				
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	62623	Date Analyzed:	2009-08-18	Analyzed By:	CM
Prep Batch:	53442	Sample Preparation:	2009-08-18	Prepared By:	CM

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 205567 - Comp. C

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	62392	Date Analyzed:	2009-08-12	Analyzed By:	kg
Prep Batch:	53230	Sample Preparation:	2009-08-12	Prepared By:	kg

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		98.9	mg/Kg	1	100	99	13.2 - 219.3

Sample: 205567 - Comp. C

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	62420	Date Analyzed:	2009-08-12	Analyzed By:	ME
Prep Batch:	53252	Sample Preparation:	2009-08-12	Prepared By:	ME

continued ...

sample 205567 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.16**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		2.03	mg/Kg	1	2.00	102	31 - 135

Method Blank (1) QC Batch: 62392

QC Batch: 62392 Date Analyzed: 2009-08-12 Analyzed By: kg
Prep Batch: 53230 QC Preparation: 2009-08-12 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<5.86	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		100	mg/Kg	1	100	100	13 - 178.5

Method Blank (1) QC Batch: 62403

QC Batch: 62403 Date Analyzed: 2009-08-12 Analyzed By: AR
Prep Batch: 53238 QC Preparation: 2009-08-11 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 62419

QC Batch: 62419 Date Analyzed: 2009-08-12 Analyzed By: ME
Prep Batch: 53252 QC Preparation: 2009-08-12 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.05	mg/Kg	1	2.00	102	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		2.39	mg/Kg	1	2.00	120	51.9 - 128.1

Method Blank (1) QC Batch: 62420

QC Batch: 62420 | Date Analyzed: 2009-08-12 | Analyzed By: ME
Prep Batch: 53252 | QC Preparation: 2009-08-12 | Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	71.9 - 115
4-Bromofluorobenzene (4-BFB)		2.56	mg/Kg	1	2.00	128	38.1 - 146.2

Method Blank (1) QC Batch: 62623

QC Batch: 62623 | Date Analyzed: 2009-08-18 | Analyzed By: CM
Prep Batch: 53442 | QC Preparation: 2009-08-18 | Prepared By: CM

Parameter	Flag	MDL Result	Units	RL
TRPHC		<5.28	mg/Kg	10

Laboratory Control Spike (LCS-1)

QC Batch: 62392 | Date Analyzed: 2009-08-12 | Analyzed By: kg
Prep Batch: 53230 | QC Preparation: 2009-08-12 | Prepared By: kg

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	195	mg/Kg	1	250	<5.86	78	57.4 - 133.4

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	175	mg/Kg	1	250	<5.86	70	57.4 - 133.4	11	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	104	92.4	mg/Kg	1	100	104	92	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 62403 | Date Analyzed: 2009-08-12 | Analyzed By: AR
Prep Batch: 53238 | QC Preparation: 2009-08-11 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.5	mg/Kg	1	100	<2.18	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	102	mg/Kg	1	100	<2.18	102	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: 62419 | Date Analyzed: 2009-08-12 | Analyzed By: ME
Prep Batch: 53252 | QC Preparation: 2009-08-12 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.40	mg/Kg	1	2.00	<0.00100	120	72.7 - 129.8
Toluene	2.42	mg/Kg	1	2.00	<0.00100	121	71.6 - 129.6
Ethylbenzene	2.40	mg/Kg	1	2.00	<0.00110	120	70.8 - 129.7
Xylene	7.31	mg/Kg	1	6.00	<0.00360	122	70.9 - 129.4

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	2.34	mg/Kg	1	2.00	<0.00100	117	72.7 - 129.8	2	20
Toluene	2.37	mg/Kg	1	2.00	<0.00100	118	71.6 - 129.6	2	20
Ethylbenzene	2.39	mg/Kg	1	2.00	<0.00110	120	70.8 - 129.7	0	20
Xylene	7.28	mg/Kg	1	6.00	<0.00360	121	70.9 - 129.4	0	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)	2.05	2.07	mg/Kg	1	2.00	102	104	65.9 - 132
4-Bromofluorobenzene (4-BFB)	2.45	2.39	mg/Kg	1	2.00	122	120	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 62420 | Date Analyzed: 2009-08-12 | Analyzed By: ME
Prep Batch: 53252 | QC Preparation: 2009-08-12 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	12.7	mg/Kg	1	20.0	<0.482	64	60.5 - 120.1

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
GRO	12.2	mg/Kg	1	20.0	<0.482	61	60.5 - 120.1	4	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)	1.87	1.87	mg/Kg	1	2.00	94	94	78.8 - 124.7
4-Bromofluorobenzene (4-BFB)	2.55	2.50	mg/Kg	1	2.00	128	125	66.1 - 128.3

Laboratory Control Spike (LCS-1)

QC Batch: 62623 | Date Analyzed: 2009-08-18 | Analyzed By: CM
Prep Batch: 53442 | QC Preparation: 2009-08-18 | Prepared By: CM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	264	mg/Kg	1	250	<5.28	105	84.9 - 124

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
TRPHC	275	mg/Kg	1	250	<5.28	110	84.9 - 124	4	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: 205565

QC Batch: 62392 | Date Analyzed: 2009-08-12 | Analyzed By: kg
Prep Batch: 53230 | QC Preparation: 2009-08-12 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	252	mg/Kg	1	250	<5.86	101	35.2 - 167.1

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	237	mg/Kg	1	250	<5.86	95	35.2 - 167.1	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	113	110	mg/Kg	1	100	113	110	34.5 - 178.4

Matrix Spike (MS-1) Spiked Sample: 205437

QC Batch: 62403 | Date Analyzed: 2009-08-12 | Analyzed By: AR
Prep Batch: 53238 | QC Preparation: 2009-08-11 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	102	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	10300	mg/Kg	100	10000	<218	103	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: 205567

QC Batch: 62419 | Date Analyzed: 2009-08-12 | Analyzed By: ME
Prep Batch: 53252 | QC Preparation: 2009-08-12 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.13	mg/Kg	1	2.00	<0.00100	106	58.6 - 165.2
Toluene	2.12	mg/Kg	1	2.00	<0.00100	106	64.2 - 153.8
Ethylbenzene	2.16	mg/Kg	1	2.00	<0.00110	108	61.6 - 159.4
Xylene	6.39	mg/Kg	1	6.00	<0.00360	106	64.4 - 155.3

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	2.50	mg/Kg	1	2.00	<0.00100	125	58.6 - 165.2	16	20
Toluene	2.50	mg/Kg	1	2.00	<0.00100	125	64.2 - 153.8	16	20
Ethylbenzene	2.60	mg/Kg	1	2.00	<0.00110	130	61.6 - 159.4	18	20
Xylene	7.75	mg/Kg	1	6.00	<0.00360	129	64.4 - 155.3	19	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)	2.00	2.00	mg/Kg	1	2	100	100	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.86	1.92	mg/Kg	1	2	93	96	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 205565

QC Batch: 62420 | Date Analyzed: 2009-08-12 | Analyzed By: ME
Prep Batch: 53252 | QC Preparation: 2009-08-12 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	30.6	mg/Kg	1	20.0	1.1032	147	12.8 - 175.2

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	31.6	mg/Kg	1	20.0	1.1032	152	12.8 - 175.2	3	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)	2.07	2.06	mg/Kg	1	2	104	103	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	2.24	2.22	mg/Kg	1	2	112	111	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 205309

QC Batch: 62623 | Date Analyzed: 2009-08-18 | Analyzed By: CM
Prep Batch: 53442 | QC Preparation: 2009-08-18 | Prepared By: CM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	263	mg/Kg	1	250	45.3	87	10 - 196

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
TRPHC	273	mg/Kg	1	250	45.3	91	10 - 196	4	20

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

Standard (CCV-1)

QC Batch: 62392 Date Analyzed: 2009-08-12 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	212	85	80 - 120	2009-08-12

Standard (CCV-2)

QC Batch: 62392 Date Analyzed: 2009-08-12 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	212	85	80 - 120	2009-08-12

Standard (ICV-1)

QC Batch: 62403 Date Analyzed: 2009-08-12 Analyzed By: AR

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	2009-08-12

Standard (CCV-1)

QC Batch: 62403 Date Analyzed: 2009-08-12 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2009-08-12

Standard (CCV-1)

QC Batch: 62419 Date Analyzed: 2009-08-12 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.112	112	80 - 120	2009-08-12
Toluene		mg/Kg	0.100	0.115	115	80 - 120	2009-08-12
Ethylbenzene		mg/Kg	0.100	0.117	117	80 - 120	2009-08-12
Xylene		mg/Kg	0.300	0.361	120	80 - 120	2009-08-12

Standard (CCV-2)

QC Batch: 62419 Date Analyzed: 2009-08-12 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.108	108	80 - 120	2009-08-12
Toluene		mg/Kg	0.100	0.108	108	80 - 120	2009-08-12
Ethylbenzene		mg/Kg	0.100	0.110	110	80 - 120	2009-08-12
Xylene		mg/Kg	0.300	0.332	111	80 - 120	2009-08-12

Standard (CCV-1)

QC Batch: 62420 Date Analyzed: 2009-08-12 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.06	106	80 - 120	2009-08-12

Standard (CCV-2)

QC Batch: 62420 Date Analyzed: 2009-08-12 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.13	113	80 - 120	2009-08-12

Standard (ICV-1)

QC Batch: 62623 Date Analyzed: 2009-08-18 Analyzed By: CM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	114	114	80 - 120	2009-08-18

Standard (CCV-1)

QC Batch: 62623 Date Analyzed: 2009-08-18 Analyzed By: CM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	99.7	100	80 - 120	2009-08-18

LAB Order ID # 9081224 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: Talon LPE | Phone #: 432 522 2123

Address: (Street, City, Zip) 2901 S. Hwy 349 Midland | Fax #:

Contact Person: Kyle Summers | E-mail: KSummers@talonlpe.com

Invoice to: (If different from above)

Project #: 70116-5.002.01 | Project Name: Purdue B

Project Location (including state): Eddy Co, NM | Sampler Signature:

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 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	Turn Around Time if different from standard	Hold
2055	Comp A	1	4oz	X								X		8/11/09	1130	X	X	X													X		
56	Comp B	1	4oz	X								X		8/11/09	1138																		
57	Comp C	1	4oz	X								X		8/11/09	1140																		
								X				X																					
								X				X																					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
[signature]	Talon	11/12/09	1345	[signature]	Trace	8/12/09	13:45	9.0
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 Y N

Headspace Y N

Log-In-Review

REMARKS:

BTEX, GRO/DRO, Chlorides - Midland

TPH 418.1 - Lubbock

- ☐ 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.

Carrier # Courier

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TRACEANALYSIS, INC.

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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6001 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Fort Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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

Kyle Summers
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: August 21, 2009

Work Order: 9082002

Project Location: Eddy Co., NM
Project Name: Pardue B
Project Number: 701165.002.01

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
206699	E-Pit (P6)	soil	2009-08-18	14:10	2009-08-19

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
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 Pardue B were received by TraceAnalysis, Inc. on 2009-08-19 and assigned to work order 9082002. Samples for work order 9082002 were received intact at a temperature of 6.0 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	53504	2009-08-20 at 08:51	62712	2009-08-20 at 15:25

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 9082002 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: 206699 - E-Pit (P6)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	Sample Preparation:	2009-08-20	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Method Blank (1) QC Batch: 62712

QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	QC Preparation:	2009-08-20	Prepared By:	AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	QC Preparation:	2009-08-20	Prepared By:	AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.8	mg/Kg	1	100	<2.18	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	99.7	mg/Kg	1	100	<2.18	100	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: 206699

QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	QC Preparation:	2009-08-20	Prepared By:	AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	100	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	10300	mg/Kg	100	10000	<218	101	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: 62712 Date Analyzed: 2009-08-20 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2009-08-20

Standard (CCV-1)

QC Batch: 62712 Date Analyzed: 2009-08-20 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	2009-08-20

LAB Order ID # 9082002 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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6808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: Talon LPE Midland | Phone #:

Address: (Street, City, Zip) 2901 W Hwy 349 Midland TX | Fax #:

Contact Person: Kyle Summers | E-mail: KSummers@TalonLPE.com

Invoice to: (If different from above) BTA

Project #: 700116S.002.01 | Project Name: BTA Pardue B

Project Location (Including state): Pardue B, Eddy County NM | Sampler Signature: Kyle for Tom Rowey

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
209199	E-Pit (N6)	1	4oz		X									8/18/09	1410

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
																	X		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Kyle	Talon	8/19/09	13:00		Traco	8/19/09	13:00	6.0
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 Y N
Headspace Y N
Log-In-Review

REMARKS:
All to cats - Midland

- ☐ 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.

Carrier # Courier

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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

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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

Kyle Summers
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: August 21, 2009

Work Order: 9081939

Project Location: Eddy Co., NM
Project Name: Pardue B
Project Number: 701165.002.01

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
206667	E-1 (1')	soil	2009-08-18	13:00	2009-08-19
206668	E-3 (3')	soil	2009-08-18	13:00	2009-08-19
206669	W-1 (1')	soil	2009-08-18	13:45	2009-08-19
206670	W-3 (3')	soil	2009-08-18	13:45	2009-08-19

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
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 Pardue B were received by TraceAnalysis, Inc. on 2009-08-19 and assigned to work order 9081939. Samples for work order 9081939 were received intact at a temperature of 6.0 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	53504	2009-08-20 at 08:51	62712	2009-08-20 at 15:25

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 9081939 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: 206667 - E-1 (1')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	Sample Preparation:	2009-08-20	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 206668 - E-3 (3')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	Sample Preparation:	2009-08-20	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**311**	mg/Kg	50	4.00

Sample: 206669 - W-1 (1')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	Sample Preparation:	2009-08-20	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**213**	mg/Kg	50	4.00

Sample: 206670 - W-3 (3')

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	Sample Preparation:	2009-08-20	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Method Blank (1) QC Batch: 62712

QC Batch: 62712 Date Analyzed: 2009-08-20 Analyzed By: AR
Prep Batch: 53504 QC Preparation: 2009-08-20 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: 62712 Date Analyzed: 2009-08-20 Analyzed By: AR
Prep Batch: 53504 QC Preparation: 2009-08-20 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.8	mg/Kg	1	100	<2.18	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	99.7	mg/Kg	1	100	<2.18	100	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: 206699

QC Batch: 62712 Date Analyzed: 2009-08-20 Analyzed By: AR
Prep Batch: 53504 QC Preparation: 2009-08-20 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	100	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	10300	mg/Kg	100	10000	<218	101	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: 62712 | Date Analyzed: 2009-08-20 | Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2009-08-20

Standard (CCV-1)

QC Batch: 62712 | Date Analyzed: 2009-08-20 | 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	2009-08-20

LAB Order ID # 9081939

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

K.S.

Company Name: Talon LPE ~~Antora Nine~~ Phone #: Midland

Address: (Street, City, Zip) 2901 S HW 349 Midland TX Fax #:

Contact Person: Kyle Summers E-mail: ksummers@talonlpe.com

Invoice to: (If different from above) BTA

Project #: 701165.002.01 Project Name: BTA Pardue B.

Project Location (including state): Pardue B, Eddy County NM Sampler Signature: Kyle [signature] for Tom Downy

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
204467	E-1 (1')	1	4oz		X							X		8/18/09	1300
68	E-3 (3')	1	4oz		↓							↓		8/18	1300
69	W-1 (1')	1	4oz		↓							↓		↓	1345
70	W-3 (3')	1	4oz		↓							↓		↓	1345

FIELD CODE	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
E-1 (1')																		X		
E-3 (3')																		↓		
W-1 (1')																		↓		
W-3 (3')																		↓		

NFS KS

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Kyle [signature]	Talon	8/19/09	13:00	[signature]	Trace	8/19/09	13:00	6.0

LAB USE ONLY

Intact (Y) N

Headspace Y / N / (NA)

Log-in Review

REMARKS: All tests - Midland

- [ ] 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.

Carrier #

ORIGINAL COPY

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

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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

Kyle Summers
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: September 18, 2009

Work Order: 9082733

Project Location: Eddy Co., NM
Project Name: Pardue
Project Number: 701165.002.01

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
208258	A-2'	soil	2009-08-26	16:00	2009-08-27
208259	A-3'	soil	2009-08-26	16:04	2009-08-27
208260	A-4'	soil	2009-08-26	16:09	2009-08-27
208261	A-5'	soil	2009-08-26	16:10	2009-08-27
208263	B-2'	soil	2009-08-26	17:16	2009-08-27
208264	B-3'	soil	2009-08-26	17:19	2009-08-27
208265	B-4'	soil	2009-08-26	17:24	2009-08-27
208266	B-5'	soil	2009-08-26	17:29	2009-08-27
208268	C-2'	soil	2009-08-26	16:45	2009-08-27
208269	C-3'	soil	2009-08-26	14:52	2009-08-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208270	C-4'	soil	2009-08-26	14:57	2009-08-27
208271	C-5'	soil	2009-08-26	15:00	2009-08-27
208273	D-2'	soil	2009-08-26	13:20	2009-08-27
208274	D-3'	soil	2009-08-26	13:26	2009-08-27
208275	D-4'	soil	2009-08-26	13:31	2009-08-27
208276	D-5'	soil	2009-08-26	13:36	2009-08-27
208278	E-2'	soil	2009-08-26	10:45	2009-08-27
208279	E-3'	soil	2009-08-26	10:50	2009-08-27
208280	E-4'	soil	2009-08-26	10:55	2009-08-27
208282	F-2'	soil	2009-08-26	16:15	2009-08-27
208283	F-3'	soil	2009-08-26	16:18	2009-08-27
208284	F-4'	soil	2009-08-26	16:21	2009-08-27
208285	F-5'	soil	2009-08-26	16:24	2009-08-27
208287	G-2'	soil	2009-08-26	15:45	2009-08-27
208288	G-3'	soil	2009-08-26	15:48	2009-08-27
208289	G-4'	soil	2009-08-26	15:51	2009-08-27
208290	G-5'	soil	2009-08-26	15:54	2009-08-27
208292	H-2'	soil	2009-08-26	16:00	2009-08-27
208293	H-3'	soil	2009-08-26	16:03	2009-08-27
208294	H-4'	soil	2009-08-26	16:06	2009-08-27
208295	H-5'	soil	2009-08-26	16:09	2009-08-27
208297	I-2'	soil	2009-08-26	11:45	2009-08-27
208298	I-3'	soil	2009-08-26	11:49	2009-08-27
208299	I-4'	soil	2009-08-26	11:53	2009-08-27
208300	I-5'	soil	2009-08-26	11:57	2009-08-27
208302	K-2'	soil	2009-08-26	11:15	2009-08-27
208303	K-3'	soil	2009-08-26	11:20	2009-08-27
208304	K-4'	soil	2009-08-26	11:25	2009-08-27

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
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 Pardue were received by TraceAnalysis, Inc. on 2009-08-27 and assigned to work order 9082733. Samples for work order 9082733 were received intact at a temperature of 8.9 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	54385	2009-09-18 at 09:00	63701	2009-09-18 at 09:37
Chloride (Titration)	SM 4500-Cl B	54386	2009-09-18 at 09:00	63702	2009-09-18 at 09:38
Chloride (Titration)	SM 4500-Cl B	54387	2009-09-18 at 09:00	63703	2009-09-18 at 09:39
Chloride (Titration)	SM 4500-Cl B	54388	2009-09-18 at 09:00	63704	2009-09-18 at 09:40

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 9082733 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: 208258 - A-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**930**	mg/Kg	10	3.25

Sample: 208259 - A-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**41.6**	mg/Kg	10	3.25

Sample: 208260 - A-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**51.8**	mg/Kg	10	3.25

Sample: 208261 - A-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

continued ...

sample 208261 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**240**	mg/Kg	10	3.25

Sample: 208263 - B-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**97.5**	mg/Kg	10	3.25

Sample: 208264 - B-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**36.6**	mg/Kg	10	3.25

Sample: 208265 - B-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<32.5	mg/Kg	10	3.25

Sample: 208266 - B-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**36.6**	mg/Kg	10	3.25

Sample: 208268 - C-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**879**	mg/Kg	10	3.25

Sample: 208269 - C-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**747**	mg/Kg	10	3.25

Sample: 208270 - C-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**494**	mg/Kg	10	3.25

Sample: 208271 - C-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**161**	mg/Kg	1	3.25

Sample: 208273 - D-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**2170**	mg/Kg	100	3.25

Sample: 208274 - D-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**1400**	mg/Kg	10	3.25

Sample: 208275 - D-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**1460**	mg/Kg	10	3.25

Sample: 208276 - D-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1490**	mg/Kg	10	3.25

Sample: 208278 - E-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6150**	mg/Kg	100	3.25

Sample: 208279 - E-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2720**	mg/Kg	100	3.25

Sample: 208280 - E-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2000**	mg/Kg	10	3.25

Sample: 208282 - F-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**101**	mg/Kg	10	3.25

Sample: 208283 - F-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**584**	mg/Kg	10	3.25

Sample: 208284 - F-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**766**	mg/Kg	10	3.25

Sample: 208285 - F-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1350**	mg/Kg	10	3.25

Sample: 208287 - G-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**453**	mg/Kg	10	3.25

Sample: 208288 - G-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**746**	mg/Kg	10	3.25

Sample: 208289 - G-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**120**	mg/Kg	10	3.25

Sample: 208290 - G-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		<32.5	mg/Kg	10	3.25

Sample: 208292 - H-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**9220**	mg/Kg	100	3.25

Sample: 208293 - H-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**4030**	mg/Kg	100	3.25

Sample: 208294 - H-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1010**	mg/Kg	10	3.25

Sample: 208295 - H-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1490**	mg/Kg	10	3.25

Sample: 208297 - I-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**226**		mg/Kg	10	3.25

Sample: 208298 - I-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<32.5		mg/Kg	10	3.25

Sample: 208299 - I-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<32.5		mg/Kg	10	3.25

Sample: 208300 - I-5'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<162		mg/Kg	50	3.25

Sample: 208302 - K-2'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**13000**	mg/Kg	100	3.25

Sample: 208303 - K-3'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6120**	mg/Kg	100	3.25

Sample: 208304 - K-4'

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1250**	mg/Kg	100	3.25

Method Blank (1) QC Batch: 63701

QC Batch:	63701	Date Analyzed:	2009-09-18	Analyzed By:	KV
Prep Batch:	54385	QC Preparation:	2009-09-18	Prepared By:	KV

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

Method Blank (1) QC Batch: 63702

QC Batch: 63702 | Date Analyzed: 2009-09-18 | Analyzed By: KV
Prep Batch: 54386 | QC Preparation: 2009-09-18 | Prepared By: KV

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

Method Blank (1) QC Batch: 63703

QC Batch: 63703 | Date Analyzed: 2009-09-18 | Analyzed By: KV
Prep Batch: 54387 | QC Preparation: 2009-09-18 | Prepared By: KV

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

Method Blank (1) QC Batch: 63704

QC Batch: 63704 | Date Analyzed: 2009-09-18 | Analyzed By: KV
Prep Batch: 54388 | QC Preparation: 2009-09-18 | Prepared By: KV

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

Matrix Spike (MS-1) Spiked Sample: 208260

QC Batch: 63701 | Date Analyzed: 2009-09-18 | Analyzed By: KV
Prep Batch: 54385 | QC Preparation: 2009-09-18 | Prepared By: KV

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[1]	230	mg/Kg	10	500	240	-2	80 - 120

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

[1]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[2]	234	mg/Kg	10	500	240	-1	80 - 120	2	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: 208282

QC Batch: 63702 | Date Analyzed: 2009-09-18 | Analyzed By: KV
Prep Batch: 54386 | QC Preparation: 2009-09-18 | Prepared By: KV

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[3]	242	mg/Kg	10	500	101	28	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	[4]	249	mg/Kg	10	500	101	30	80 - 120	3	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: 208290

QC Batch: 63703 | Date Analyzed: 2009-09-18 | Analyzed By: KV
Prep Batch: 54387 | QC Preparation: 2009-09-18 | Prepared By: KV

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[5]	226	mg/Kg	10	500	29.3	39	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	[6]	230	mg/Kg	10	500	29.3	40	80 - 120	2	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: 208295

QC Batch: 63704 | Date Analyzed: 2009-09-18 | Analyzed By: KV
Prep Batch: 54388 | QC Preparation: 2009-09-18 | Prepared By: KV

[2]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[3]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[4]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[5]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[7]	2470	mg/Kg	10	500	1490	196	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	[8]	2470	mg/Kg	10	500	1490	196	80 - 120	0	20

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

Standard (ICV-1)

QC Batch: 63701 Date Analyzed: 2009-09-18 Analyzed By: KV

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2009-09-18

Standard (CCV-1)

QC Batch: 63701 Date Analyzed: 2009-09-18 Analyzed By: KV

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-09-18

Standard (ICV-1)

QC Batch: 63702 Date Analyzed: 2009-09-18 Analyzed By: KV

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2009-09-18

Standard (CCV-1)

QC Batch: 63702 Date Analyzed: 2009-09-18 Analyzed By: KV

[7]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[8]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-09-18

Standard (ICV-1)

QC Batch: 63703 Date Analyzed: 2009-09-18 Analyzed By: KV

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	2009-09-18

Standard (CCV-1)

QC Batch: 63703 Date Analyzed: 2009-09-18 Analyzed By: KV

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2009-09-18

Standard (ICV-1)

QC Batch: 63704 Date Analyzed: 2009-09-18 Analyzed By: KV

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	2009-09-18

Standard (CCV-1)

QC Batch: 63704 Date Analyzed: 2009-09-18 Analyzed By: KV

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2009-09-18

LAB Order ID # 9082733

Page 1 of 5

TraceAnalysis, Inc.

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Company Name: Talon/LPE
Phone #: 1-575-746-8768
Address: (Street, City, Zip) 104 Hermosa Dr.
Fax #: 1-575-748-8905
Contact Person: Kyle Summers
E-mail: Ksummers@talonlpe.com
Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca
Project #: 701165.002.01
Project Name: Pardue
Project Location (including state): Eddy County, NM
Sampler Signature: Simon Hudgins

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
208258	A-2'	1	4oz		X							X		8/26/09	4:00
259	A-3'	1	4oz		X							X		8/26/09	4:04
260	A-4'	1	4oz		X							X		8/26/09	4:09
261	A-5'	1	4oz		X							X		8/26/09	4:10
262	A-6'	1	4oz		X							X		8/26/09	4:14
263	B-2'	1	4oz		X							X		8/26/09	3:16
264	B-3'	1	4oz		X							X		8/26/09	3:19
265	B-4'	1	4oz		X							X		8/26/09	3:24
266	B-5'	1	4oz		X							X		8/26/09	3:29
267	B-6'	1	4oz		X							X		8/26/09	3:35
268	C-2'	1	4oz		X							X		8/26/09	2:45

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP 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	Chloride					Turn Around Time if different from standard	Hold
																	X						X
																	X						X
																	X						X
																	X						X
																	X						
																	X						X
																	X						X
																	X						X
																	X						X
																	X						
																	X						X

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Simon Hudgins	Talon	8/27/09	12:57	Dwayne Day	Talon	8/27/09	12:57	INST ___ OBS ___ °C COR ___ °C
Dwayne Day	Talon	8/27/09	15:36					INST ___ OBS ___ °C COR ___ °C
				Carol Fox	Trace	8-27-09	15:36	INST IR OBS 8.4 °C COR 8.9 °C

LAB USE ONLY

Intact (Y) N

Headspace Y/N/NA

Log-in-Review

REMARKS:

New mexico accepted method. CF

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

Carrier # Carryin, mice

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TraceAnalysis, Inc.

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Tel (817) 201-5260
Fax (817) 560-4336

Company Name: Talon/LPE	Phone #: 1-575-746-8768
Address: (Street, City, Zip) 104 Hermosa Dr.	Fax #: 1-575-748-8905
Contact Person: Kyle Summers	E-mail: ksummers@talonlpe.com
Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca	
Project #: 701165.002.01	Project Name: Pardue
Project Location (including state): Eddy County, NM	Sampler Signature: Senior Hudgens

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 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP 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	Chloride				Turn Around Time if different from standard	Hold
208269	C-3'	1	4oz		X							X		8/26/09	2:52																	X					X
270	C-4'	1	4oz		X							X		8/26/09	2:57																	X					X
271	C-5'	1	4oz		X							X		8/26/09	3:00																	X					X
272	C-6'	1	4oz		X							X		8/26/09	3:10																	X					
273	D-2'	1	4oz		X							X		8/26/09	1:20																	X					X
274	D-3'	1	4oz		X							X		8/26/09	1:26																	X					X
275	D-4'	1	4oz		X							X		8/26/09	1:31																	X					X
276	D-5'	1	4oz		X							X		8/26/09	1:36																	X					X
277	D-6'	1	4oz		X							X		8/26/09	1:45																	X					
278	E-2'	1	4oz		X							X		8/26/09	10:45																	X					X
279	E-3'	1	4oz		X							X		8/26/09	10:50																	X					X

	Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Senior Hudgens	Talon	8/27/09	12:57	Dwayne Gray	Talon	8/27/09	12:57	INST ___ °C
									OBS ___ °C
									COR ___ °C
	Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Dwayne Gray	Talon	8/27/09	15:30					INST ___ °C
									OBS ___ °C
									COR ___ °C
	Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
					Carol Fox	Trace	8.27.09	15:36	INST IR
									OBS 8.4 °C
									COR 8.9 °C

LAB USE ONLY

Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS:

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

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LAB Order ID # 9082733

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Fax #: 1-575-748-8905
Contact Person: Kyle Summers
E-mail: ksummers@talonlpe.com
Invoice to: (If different from above) BTA Joh: Pardue Attn: Skip Baca
Project #: 701165.002.01
Project Name: Pardue
Project Location (including state): Eddy County, NM
Sampler Signature: Simon Hudgins

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
208280	E-4'	1	4oz		X							X		8/26/09	10:55
281	E-5'	1	4oz		X							X		8/26/09	11:06
282	F-2'	1	4oz		X							X		8/26/09	4:15
283	F-3'	1	4oz		X							X		8/26/09	4:18
284	F-4'	1	4oz		X							X		8/26/09	4:21
285	F-5'	1	4oz		X							X		8/26/09	4:24
286	F-6'	1	4oz		X							X		8/26/09	4:27
287	G-2'	1	4oz		X							X		8/26/09	3:45
288	G-3'	1	4oz		X							X		8/26/09	3:48
289	G-4'	1	4oz		X							X		8/26/09	3:51
290	G-5'	1	4oz		X							X		8/26/09	3:54

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624
BTEX 8021 / 602 / 8260 / 624
TPH 418.1 / TX1005 / TX1005 Ext(C35)
TPH 8015 GRO / DRO / TVHC
PAH 8270 / 625
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
TCLP 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
Chloride
Turn Around Time if different from standard
Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Simon Hudgins	Talon	8/27/09	1257	Danny Gray	Trace	8/27/09	12:57
Danny Gray	Trace	8/27/09	15:36				
				Carol Fox	Trace	8-27-09	15:36

INST ____ °C
OBS ____ °C
COR ____ °C

INST ____ °C
OBS ____ °C
COR ____ °C

INST IR
OBS 8.4 °C
COR 8.9 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N NA
Log-in-Review

REMARKS:

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

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Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca
Project #: 701165.002.01
Project Name: Pardue
Project Location (including state): Eddy County, NM
Sampler Signature: [signature]

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 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP 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	Chloride	Turn Around Time if different from standard	Hold
208291	G-6'	1	4oz		X							X		8/26/09	3:57																		X		
292	H-2'	1	4oz		X							X		8/26/09	2:00																		X		X
293	H-3'	1	4oz		X							X		8/26/09	2:03																		X		X
294	H-4'	1	4oz		X							X		8/26/09	2:06																		X		X
295	H-5'	1	4oz		X							X		8/26/09	2:09																		X		X
296	H-6'	1	4oz		X							X		8/26/09	2:12																		X		
297	I-2'	1	4oz		X							X		8/26/09	11:45																		X		X
298	I-3'	1	4oz		X							X		8/26/09	11:49																		X		X
299	I-4'	1	4oz		X							X		8/26/09	11:53																		X		X
300	I-5'	1	4oz		X							X		8/26/09	11:57																		X		X
301	I-6'	1	4oz		X							X		8/26/09	12:05																		X		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp
[signature]	Talon	8/27/09	12:58	Dewayne Gray	Talon	8/27/09	12:58	INST ___ OBS ___ °C COR ___ °C
Dewayne Gray	Talon	8/27/09	15:36					INST ___ OBS ___ °C COR ___ °C
				Carol Fox	Trace	8-27-09	15:36	INST IR OBS 8.4 °C COR 8.9 °C

LAB USE ONLY
Intact (Y) / N
Headspace Y / N / (NA)
Log-in-Review [initials]

REMARKS:

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

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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: Talon/LPE
Phone #: 1-575-746-8768
Address: (Street, City, Zip) 104 Hermosa Dr.
Fax #: 1-575-748-8905
Contact Person: Kyle Summers
E-mail: ksummers@talonlpe.com
Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca
Project #: 701165.002.01
Project Name: Pardue
Project Location (including state): Eddy County, NM
Sampler Signature: [signature]

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
208302	K-2'	1	4oz		X								X			8/26/09	11:15
303	K-3'	1	4oz		X								X			8/26/09	11:20
304	K-4'	1	4oz		X								X			8/26/09	11:25
305	K-5'	1	4oz		X								X			8/26/09	11:30

LAB #	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP 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	Chloride					Turn Around Time if different from standard	Hold
208302																		X						X
303																		X						X
304																		X						X
305																		X						

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
[signature]	Talon	8/27/09	12:58	[signature]	Talon	8/27/09	12:58	INST ___ OBS ___ °C COR ___ °C
[signature]	Talon	8/27/09	15:36					INST ___ OBS ___ °C COR ___ °C
				Carol Fox	Trace	8-27-09	15:36	INST 32 OBS 8.4 °C COR 8.9 °C

LAB USE ONLY
Intact (Y) / N
Headspace Y / N / (NA)
Log-in-Review [initials]

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.

Carrier # carry in, on ice

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LAB Order # 9082733

Page 1 of 5

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
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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: Talon/LPE
Phone #: 1-575-746-8768
Address: (Street, City, Zip) 104 Hermosa Dr.
Fax #: 1-575-748-8905
Contact Person: Kyle Summers
E-mail: Ksummers@talonlpe.com
Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca
Project #: 701165.002.01
Project Name: Pardue
Project Location (including state): Eddy County, NM
Sampler Signature: Simon Hodges

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
208258	A-2'	1	4oz		X							X		8/26/09	4:00
259	A-3'	1	4oz		X							X		8/26/09	4:04
260	A-4'	1	4oz		X							X		8/26/09	4:09
261	A-5'	1	4oz		X							X		8/26/09	4:10
262	A-6'	1	4oz		X							X		8/26/09	4:14
263	B-2'	1	4oz		X							X		8/26/09	3:16
264	B-3'	1	4oz		X							X		8/26/09	3:19
265	B-4'	1	4oz		X							X		8/26/09	3:24
266	B-5'	1	4oz		X							X		8/26/09	3:29
267	B-6'	1	4oz		X							X		8/26/09	3:35
268	C-2'	1	4oz		X							X		8/26/09	2:45

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624
BTEX 8021 / 602 / 8260 / 624
TPH 418.1 / TX1005 / TX1005 Ext(C35)
TPH 8015 GRO / DRO / TVHC
PAH 8270 / 625
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
TCLP 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
Chloride
Turn Around Time if different from standard
Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Simon Hodges	Talon	8/27/09	12:57	Dwayne Day	Talon	8/27/09	12:57	INST ____ OBS ____ °C COR ____ °C
Dwayne Day	Talon	8/27/09	15:36					INST ____ OBS ____ °C COR ____ °C
				Carol Fox	Trace	8-27-09	15:36	INST IR OBS 8.4 °C COR 8.9 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-In-Review

REMARKS:
New Mexico accepted method. CF

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

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Carrier # Carryin, mice

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LAB Order 9082733

Page 2 of 5

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296

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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: Talon/LPE	Phone #: 1-575-746-8768
Address: (Street, City, Zip) 104 Hermosa Dr.	Fax #: 1-575-748-8905
Contact Person: Kyle Summers	E-mail: ksummers@talonlpe.com
Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca	
Project #: 701165.002.01	Project Name: Pardue
Project Location (including state): Eddy County, NM	Sampler Signature: Senior Hughes

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 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP 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	Chloride				Turn Around Time if different from standard	Hold
208269	C-3'	1	4oz		X							X		8/26/09	2:52																	X					X
270	C-4'	1	4oz		X							X		8/26/09	2:57																	X					X
271	C-5'	1	4oz		X							X		8/26/09	3:00																	X					X
272	C-6'	1	4oz		X							X		8/26/09	3:10																	X					
273	D-2'	1	4oz		X							X		8/26/09	1:20																	X					X
274	D-3'	1	4oz		X							X		8/26/09	1:26																	X					X
275	D-4'	1	4oz		X							X		8/26/09	1:31																	X					X
276	D-5'	1	4oz		X							X		8/26/09	1:36																	X					X
277	D-6'	1	4oz		X							X		8/26/09	1:45																	X					
278	E-2'	1	4oz		X							X		8/26/09	10:45																	X					X
279	E-3'	1	4oz		X							X		8/26/09	10:50																	X					X

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Senior Hughes	Talon	8/27/09	12:57	Georgia Gray	Talon	8/27/09	12:57	INST ____ OBS ____ °C COR ____ °C
Georgia Gray	Talon	8/27/09	15:36	Received by:	Company:	Date:	Time:	INST ____ OBS ____ °C COR ____ °C
Relinquished by:	Company:	Date:	Time:	Carol Fox	Trace	8-27-09	15:36	INST IR OBS 8.4 °C COR 8.9 °C

LAB USE ONLY

Intact Y N

Headspace Y / N / NA

Log-in-Review

REMARKS:

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

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LAB Order 9082733

Page 3 of 5

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: Talon/LPE	Phone #: 1-575-746-8768
Address: (Street, City, Zip) 104 Hermosa Dr.	Fax #: 1-575-748-8905
Contact Person: Kyle Summers	E-mail: ksummers@talonlpe.com
Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca	
Project #: 701165.002.01	Project Name: Pardue
Project Location (including state): Eddy County, NM	Sampler Signature: Simon Hudgins

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 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP 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	Chloride					Turn Around Time if different from standard	Hold
208280	E-4'	1	4oz		X							X		8/26/09	10:55																	X						X
281	E-5'	1	4oz		X							X		8/26/09	11:06																	X						
282	F-2'	1	4oz		X							X		8/26/09	4:15																	X						X
283	F-3'	1	4oz		X							X		8/26/09	4:18																	X						X
284	F-4'	1	4oz		X							X		8/26/09	4:21																	X						X
285	F-5'	1	4oz		X							X		8/26/09	4:24																	X						X
286	F-6'	1	4oz		X							X		8/26/09	4:27																	X						
287	G-2'	1	4oz		X							X		8/26/09	3:45																	X						X
288	G-3'	1	4oz		X							X		8/26/09	3:48																	X						X
289	G-4'	1	4oz		X							X		8/26/09	3:51																	X						X
290	G-5'	1	4oz		X							X		8/26/09	3:54																	X						X

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Simon Hudgins	Talon	8/27/09	1257	Dwayne Ivey	Talon	8/27/09	12:57	INST ___ °C, OBS ___ °C, COR ___ °C
Dwayne Ivey	Talon	8/27/09	15:36					INST ___ °C, OBS ___ °C, COR ___ °C
				Carol Fox	Trace	8-27-09	15:36	INST 18 °C, OBS 8.4 °C, COR 8.9 °C

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-in-Review

REMARKS:

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

Carrier # Carrying on ice

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TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Company Name: Talon/LPE

Phone #: 1-575-746-8768

Address: (Street, City, Zip) 104 Hermosa Dr.

Fax #: 1-575-748-8905

Contact Person: Kyle Summers

E-mail: ksummers@talonlpe.com

Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca

Project #: 701165.002.01

Project Name: Pardue

Project Location (including state): Eddy County, NM

Sampler Signature: Simon Hudgens

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
208291	G-6'	1	4oz		X							X		8/26/09	3:57
292	H-2'	1	4oz		X							X		8/26/09	2:00
293	H-3'	1	4oz		X							X		8/26/09	2:03
294	H-4'	1	4oz		X							X		8/26/09	2:06
295	H-5'	1	4oz		X							X		8/26/09	2:09
296	H-6'	1	4oz		X							X		8/26/09	2:12
297	I-2'	1	4oz		X							X		8/26/09	11:45
298	I-3'	1	4oz		X							X		8/26/09	11:49
299	I-4'	1	4oz		X							X		8/26/09	11:53
300	I-5'	1	4oz		X							X		8/26/09	11:57
301	I-6'	1	4oz		X							X		8/26/09	12:05

ANALYSIS REQUEST	Turn Around Time if different from standard	Hold
MTBE 8021 / 602 / 8260 / 624		
BTEX 8021 / 602 / 8260 / 624		
TPH 418.1 / TX1005 / TX1005 Ext(C35)		
TPH 8015 GRO / DRO / TVHC		
PAH 8270 / 625		
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP 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		
Chloride	X	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Simon Hudgens	Talon	8/27/09	12:58	Georgene Gray	Talon	8/27/09	12:58	INST ___ °C, OBS ___ °C, COR ___ °C
Georgene Gray	Talon	8/27/09	15:36					INST ___ °C, OBS ___ °C, COR ___ °C
				Carol Fox Trace		8-27-09	15:36	INST IR, OBS 8.4 °C, COR 8.9 °C

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-in-Review

REMARKS:

- Dry Weight Basis Required
- TRRP Report Required
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Carrier # Carrying on ice

LAB Order 9082733

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Ft. Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

Company Name: Talon/LPE	**Phone #:** 1-575-746-8768
Address: (Street, City, Zip) 104 Hermosa Dr.	**Fax #:** 1-575-748-8905
Contact Person: Kyle Summers	**E-mail:** Ksummers@talonlpe.com
Invoice to: (If different from above) BTA Job: Pardue Attn: Skip Baca	
Project #: 7c1165.002.01	**Project Name:** Pardue
Project Location (including state): Eddy County, NM	**Sampler Signature:** Simon Hudgins

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
208302	K-2'	1	4oz		X							X		8/26/09	11:15
303	K-3'	1	4oz		X							X		8/26/09	11:20
304	K-4'	1	4oz		X							X		8/26/09	11:25
305	K-5'	1	4oz		X							X		8/26/09	11:30

ANALYSIS REQUEST	Turn Around Time if different from standard	Hold
MTBE 8021 / 602 / 8260 / 624		
BTEX 8021 / 602 / 8260 / 624		
TPH 418.1 / TX1005 / TX1005 Ext(C35)		
TPH 8015 GRO / DRO / TVHC		
PAH 8270 / 625		
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP 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		
Chloride	X	X

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Simon Hudgins	Talon	8/27/09	12:58	Dwayne Doug	Talon	8/27/09	12:58	INST ____ °C
								OBS ____ °C
								COR ____ °C
Dwayne Doug	Talon	8/27/09	15:36					INST ____ °C
								OBS ____ °C
								COR ____ °C
				Carol Fox	Trace	8-27-09	15:36	INST IR
								OBS 8.4 °C
								COR 8.9 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N NA
Log-in-Review

REMARKS:
carry in, on ice

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

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Carrier # carry in, on ice

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Summary Report

Kyle Summers
Talon LPE-Midland
2901 State Highway 349
Midland, TX 79706

Report Date: October 14, 2009

Work Order: 9100927

Project Location: Eddy Co., NM
Project Name: Pardue B
Project Number: 701165.002.01

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
212094	BH-E	soil	2009-10-07	15:40	2009-10-09
212095	BH-H	soil	2009-10-08	14:42	2009-10-09
212096	BH-F	soil	2009-10-07	09:07	2009-10-09
212097	BH-D	soil	2009-10-02	14:25	2009-10-09

Sample: 212094 - BH-E

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 212095 - BH-H

Param	Flag	Result	Units	RL
Chloride		**532**	mg/Kg	4.00

Sample: 212096 - BH-F

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 212097 - BH-D

Param	Flag	Result	Units	RL
Chloride		**320**	mg/Kg	4.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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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

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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

Kyle Summers
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: October 14, 2009

Work Order: 9100927

Project Location: Eddy Co., NM
Project Name: Pardue B
Project Number: 701165.002.01

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
212094	BH-E	soil	2009-10-07	15:40	2009-10-09
212095	BH-H	soil	2009-10-08	14:42	2009-10-09
212096	BH-F	soil	2009-10-07	09:07	2009-10-09
212097	BH-D	soil	2009-10-02	14:25	2009-10-09

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
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 Pardue B were received by TraceAnalysis, Inc. on 2009-10-09 and assigned to work order 9100927. Samples for work order 9100927 were received intact at a temperature of 13.0 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	54964	2009-10-12 at 13:47	64407	2009-10-13 at 15:46

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 9100927 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: 212094 - BH-E

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	64407	Date Analyzed:	2009-10-13	Analyzed By:	AR
Prep Batch:	54964	Sample Preparation:	2009-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 212095 - BH-H

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	64407	Date Analyzed:	2009-10-13	Analyzed By:	AR
Prep Batch:	54964	Sample Preparation:	2009-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**532**	mg/Kg	50	4.00

Sample: 212096 - BH-F

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	64407	Date Analyzed:	2009-10-13	Analyzed By:	AR
Prep Batch:	54964	Sample Preparation:	2009-10-12	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 212097 - BH-D

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	64407	Date Analyzed:	2009-10-13	Analyzed By:	AR
Prep Batch:	54964	Sample Preparation:	2009-10-12	Prepared By:	AR

continued ...

sample 212097 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**320**	mg/Kg	50	4.00

Method Blank (1) QC Batch: 64407

QC Batch: 64407 Date Analyzed: 2009-10-13 Analyzed By: AR
Prep Batch: 54964 QC Preparation: 2009-10-12 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: 64407 Date Analyzed: 2009-10-13 Analyzed By: AR
Prep Batch: 54964 QC Preparation: 2009-10-12 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<2.18	101	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	<2.18	99	85 - 115	2	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: 212097

QC Batch: 64407 Date Analyzed: 2009-10-13 Analyzed By: AR
Prep Batch: 54964 QC Preparation: 2009-10-12 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10700	mg/Kg	100	10000	320	104	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	10900	mg/Kg	100	10000	320	106	85 - 115	2	20

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

Standard (ICV-1)

QC Batch: 64407 Date Analyzed: 2009-10-13 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2009-10-13

Standard (CCV-1)

QC Batch: 64407 Date Analyzed: 2009-10-13 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-10-13

LAB Order ID # 9100927

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296

5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313

200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443

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

Company Name: Talon LPE | Phone #: 432-522-2133

Address: (Street, City, Zip) | Fax #:

Contact Person: Kyle Summers | E-mail: KSummers@TalonLPE.com

Invoice to: (If different from above) BTA Skip Baca

Project #: 701165.002.01 | Project Name: Pardue B

Project Location (including state): Eddy Co. NM | Sampler Signature:

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
92094	BH-E	1	4oz		X							X		10/1/09	1540
095	BH-H	↓	↓		↓							↓		10/1	1442
096	BH-F													10/1	0907
097	BH-D	↓	↓		↓							↓		10/2	1425

NFS

NC

MTBE 8021 / 602 / 8260 / 624 | BTEX 8021 / 602 / 8260 / 624 | TPH 418.1 / TX1005 / TX1005 Ext(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270 / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP 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 | Chloride | Turn Around Time if different from standard | Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Talon	10/2/09	1122		Trace	10/9/09	12:22	INST 13.0 °C, OBS, COR
								INST, OBS, COR
								INST, OBS, COR

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-in-Review

REMARKS: All tests - Midland

- ☐ 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.

Carrier # Courier

ORIGINAL COPY

APPENDIX D

PHOTOGRAPHIC DOCUMENTATION

TALON/LPE

Client: BTA Oil Producers
Location: Pardue B Lightning Strike
Eddy County, New Mexico

Photographic Documentation

Prepared by: Simon Hudgens
Photographer: Simon Hudgens
Project Number: 701165.002.01

Photograph No. 1

Direction: Southeast

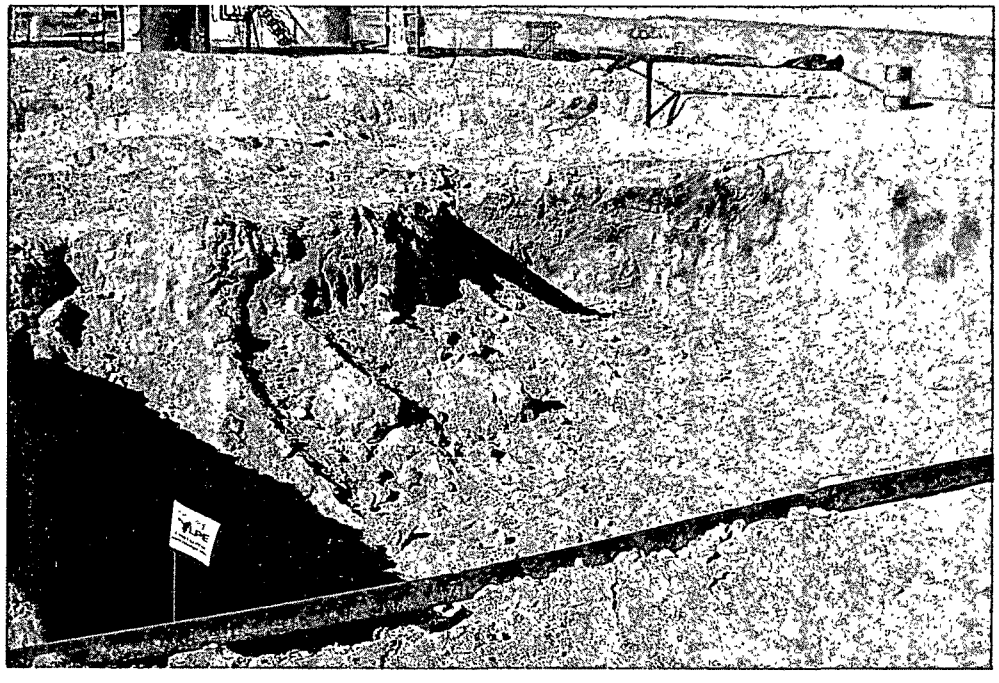
Description: View of initial excavation area.

Photograph No. 2

Direction: South

Description: View of initial excavation area.

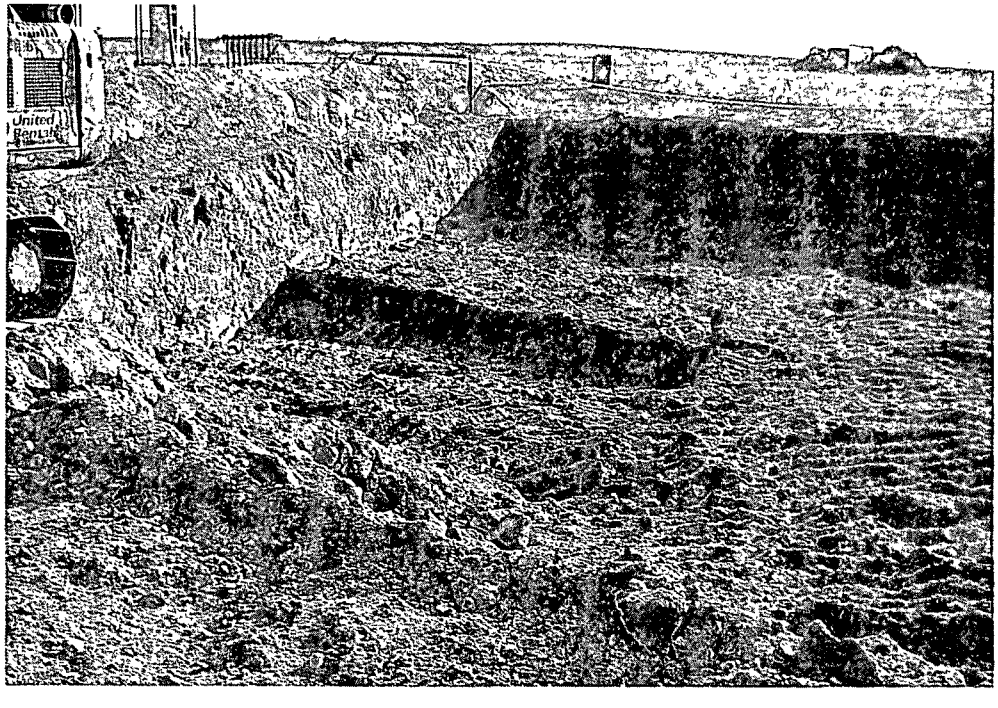
Photograph No. 3



Direction: Northeast

Description:
View of excavation area.

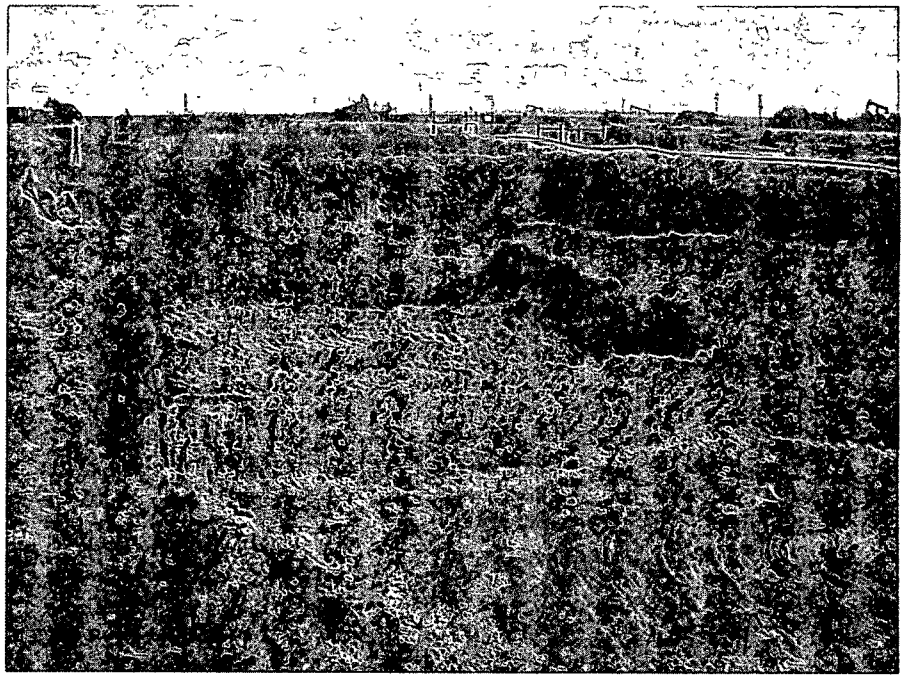
Photograph No. 4



Direction: Northeast

Description:
View of excavation area.

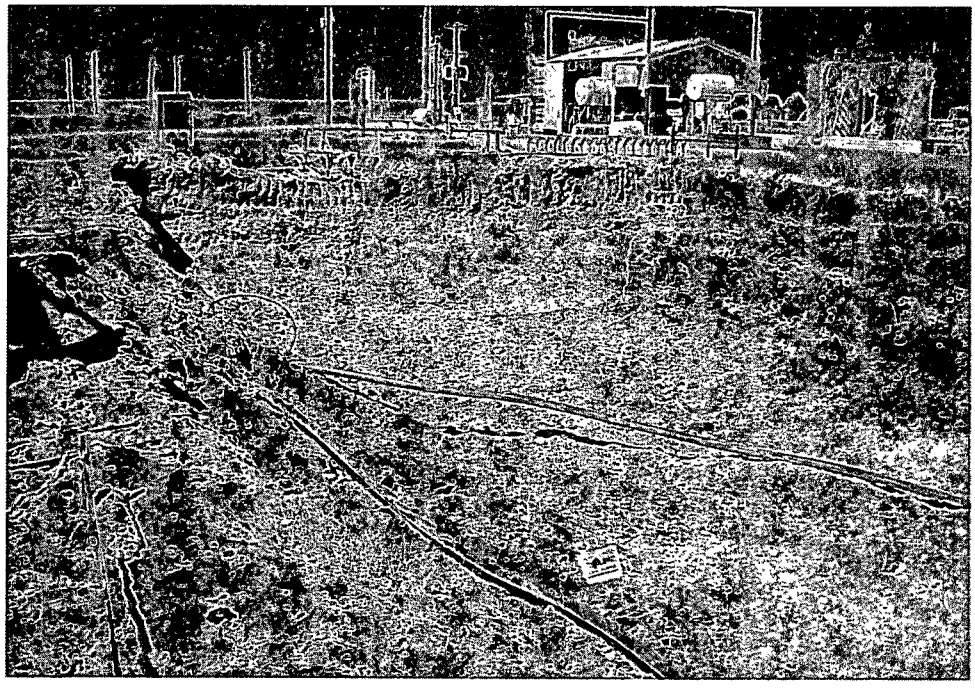
Photograph No. 5



Direction: East

Description: View of excavation area.

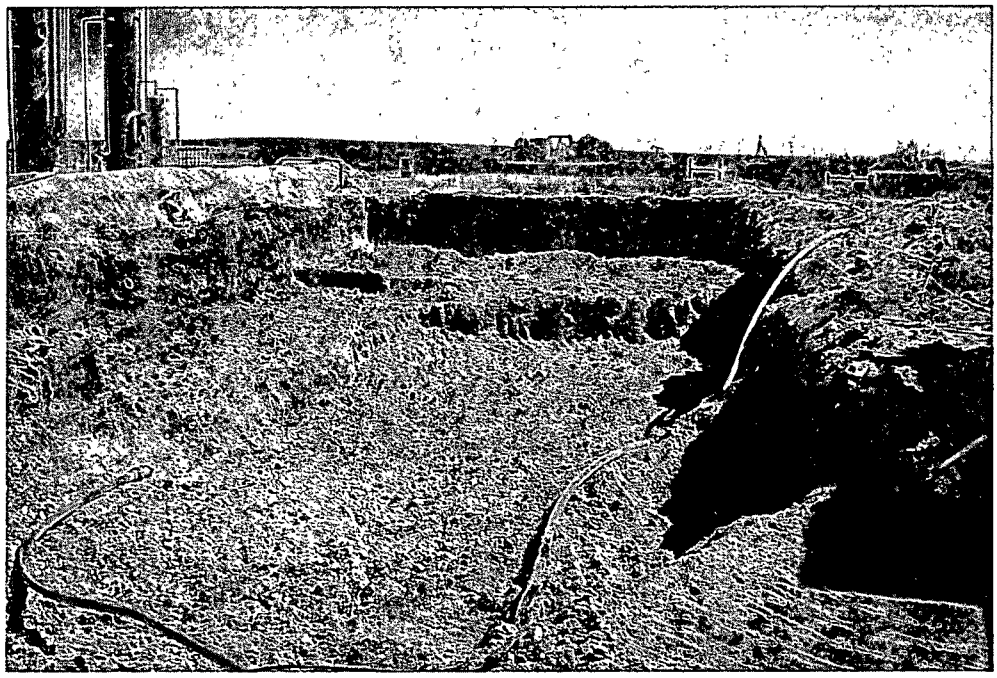
Photograph No. 6



Direction: Northwest

Description: View of excavation area.

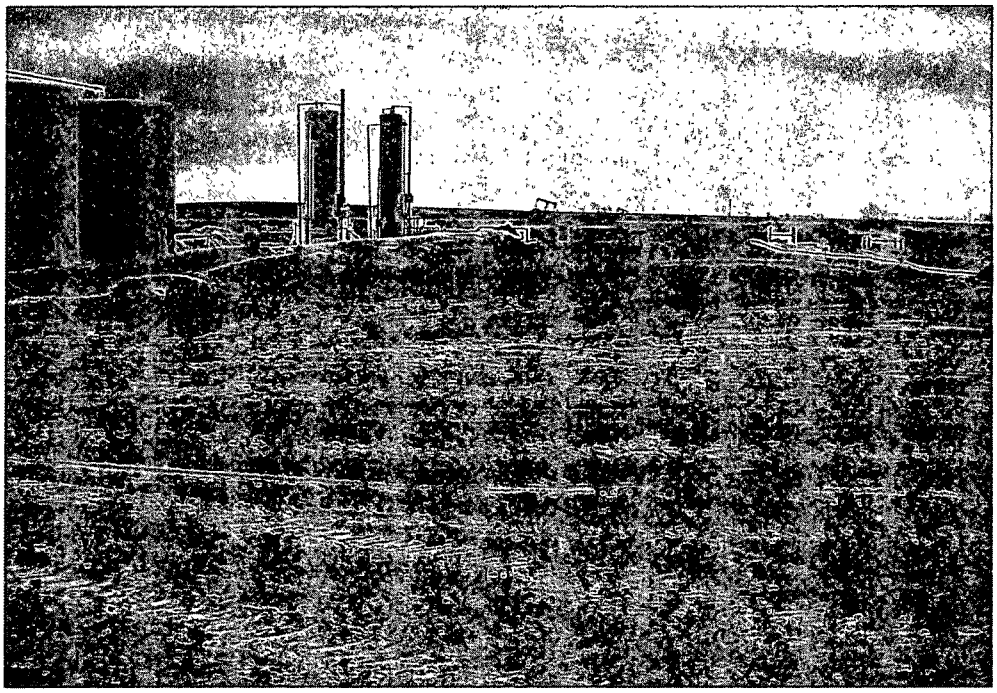
Photograph No. 7



Direction: Northeast

Description:
View of excavation area.

Photograph No. 8



Direction: East

Description:
View of backfilled area.

TALON/LPE

Client: BTA Oil Producers
Location: Pardue B Lightning Strike
Eddy County, New Mexico

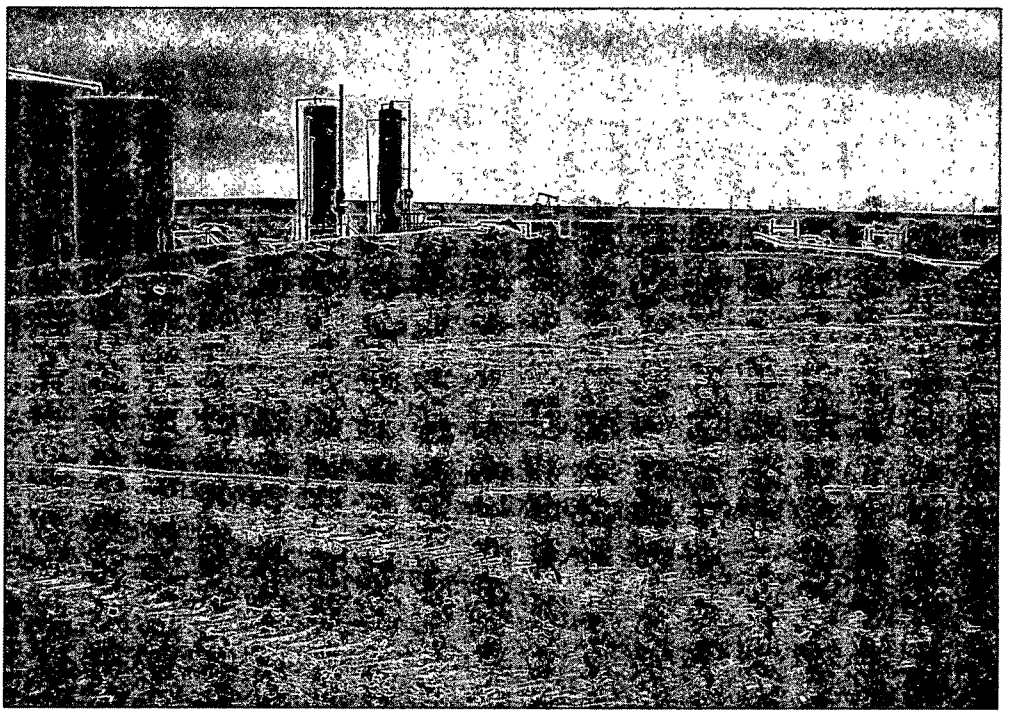
Photographic Documentation

Prepared by: Simon Hudgens
Photographer: Simon Hudgens
Project Number: 701165.002.01

Photograph No. 9

Direction: East

Description:
View of backfilled area.



APPENDIX E

Disposal Documentation

Disposal documentation/run tickets available in NMOCD hard copy files.

MLB - NMOCD District 2

APPENDIX F

NMOCD Documentation

Initial C-141

Final 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

AUG – 4 2009

Form C-141
Revised March 17, 1999

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

30-015-34621

Release Notification and Corrective Action

nMLB 0922240002

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	BTA Oil Producers LLC 260297	Contact	Pam Inskeep
Address	104 S. Pecos, Midland, TX 79701	Telephone No.	(432) 682-3753
Facility Name	Pardue –B–, 8808 JV-P #6	Facility Type	Well

Surface Owner	Mississippi Potash	Mineral Owner	Kirby Minerals, Teledyne Indust.	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	11	23S	28E	1650	South	1850	West	Eddy

NATURE OF RELEASE

Type of Release	Major	Volume of Release 285 bbls	Volume Recovered 0 bbls
Source of Release	Lightning Strike	Date and Hour of Occurrence 11 pm CDT, 7/29/2009	Date and Hour of Discovery 11 pm CDT, 7/29/2009
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required		If YES, To Whom? Sherry Bonham, Artesia	
By Whom?	Clay Tipton, Field Supervisor	Date and Hour	11:30 pm CDT 7/29/2009
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.* Gary Tucker, pumper, and the Loving Fire Department were both called by the landowner. Upon arriving at the location, the pumper found the location engulfed in flames. The field supervisor was immediately notified. One oil tank had been struck and blown into the air and had landed on production equipment on the site. All oil in the affected tank and one other tank was burned up. A portion of the oil stored in a third tank was transferred to our Pardue D battery (very close in proximity E-11-23S-28E and producing from the same reservoir). The remainder of the stock in the third tank was lost and destroyed by the flames. A vacuum truck was brought in. Approximately 200 bbls of produced water was recovered and taken to an approved disposal. The remainder of the water burned and/or evaporated. All of the affected area is within the firewall. A backhoe and dump truck will be brought in, as soon as weather permits, to continue cleanup. All affected topsoil/caliche will be removed and hauled to an approved disposal site. All production equipment will be replaced. No further remediation action should be necessary.

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

Printed Name: Pam Inskeep

Title: Regulatory Administrator

Date: 7/30/2009 Phone: (432) 682-3753

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By Mike Bratcher

Approval Date: AUG 10 2009 Expiration Date:

Attached ☐

Condition of approval:
REMEDIATION per OCD Rules and Guidelines. SUBMIT REMEDIATION PROPOSAL BY: 9/10/09

2RP-326

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 LLC	Contact	Pam Inskeep
Address	104 S. Pecos, Midland, TX 79701	Telephone No.	(432) 682-3753
Facility Name	Pardue –B–, 8808 JV-P	Facility Type	Well

Surface Owner	Mississippi Potash	Mineral Owner	Kirby Minerals, Teledyne Indust.	Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	11	23S	28E	1650	South	1850	West	Eddy

NATURE OF RELEASE

Type of Release	Major	Volume of Release 285 bbls	Volume Recovered 0 bbls
Source of Release	Lightning Strike	Date and Hour of Occurrence 11 pm CDT, 7/29/2009	Date and Hour of Discovery 11 pm CDT, 7/29/2009
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required		If YES, To Whom? Sherry Bonham, Artesia	
By Whom?	Clay Tipton, Field Supervisor	Date and Hour	11:30 pm CDT 7/29/2009
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.* Gary Tucker, pumper, and the Loving Fire Department were both called by the landowner Upon arriving at the location, the pumper found the location engulfed in flames. The field supervisor was immediately notified One oil tank had been struck and blown into the air and had landed on production equipment on the site All oil in the affected tank and one other tank was burned up A portion of the oil stored in a third tank was transferred to our Pardue D battery (very close in proximity E-11-23S-28E and producing from the same reservoir) The remainder of the stock in the third tank was lost and destroyed by the flames. A vacuum truck was brought in Approximately 200 bbls of produced water was recovered and taken to an approved disposal The remainder of the water burned and/or evaporated All of the affected area is within the firewall

After contractors removed all damaged surface equipment, an environmental contractor was mobilized to perform remediation activities at the site All impacted soil was removed and disposed of at an approved disposal facility Samples were collected from the excavation and were submitted to a laboratory and analyzed for DRO, GRO, BTEX and Chlorides All samples were found to be below regulatory limits and the excavation was backfilled with clean soil purchased from a nearby source*. A representative of the Artesia OCD office inspected the site during remediation activities The remediation was completed on 11/09/09. We have been waiting for the State seed mixture recommendation

There are no further remediation activities planned for this site. A new battery site was constructed just north of the original battery A single sheet of 20-mil poly-liner was used to line the new battery floor and berms The poly-liner was draped over an earthen berm and then covered with caliche

* The site is not seeded, to date, as we have not received the seed mixture recommended from the State.

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	OIL CONSERVATION DIVISION
Printed Name: Pam Inskeep	Approved by District Supervisor.
Title: Regulatory Administrator	Approval Date: / Expiration Date.
Date: 02/03/2010 Phone. (432) 682-3753	Conditions of Approval: / Attached ☐