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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** hanno

Kyle Summers District Manager

Talon/LPE 408 Texas St. Artesia, New Mexico 88210

March 12, 2010

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NMOCD - New Mexico Oil Conservation Division

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Initial C-141 Final C-141

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:

<u>Criteria:</u>	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:

10 ppm
50 ppm
100 ppm

X.

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.

4.1 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

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FIGURES

Figure 1 – Investigative Soil Sampling Location Map Figure 2 – Site Plan with Confirmation Sample Location Map Figure 3 – Topographic Map

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APPENDIX B

TABLES

Table 1 – Summary Soil Analytical Data



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	< 0.01 00	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**		
			- * <u>*</u>	Backgrou	nd Samples		the second se				
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		
		prin - rijeri -	1. 1. A. V	ertical Delin	eation Sample	25 4.2 54.4	the state of the state	\$ 1 527 a 53 c			
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		



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
and the second			Verti	cal Delineatio	on Samples (c	ont'd).	a contraction of the second	بر الم ويسري المريضية (المري المريك	
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/Á	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	772
G-2'	08/26/09	4.5		N/A	N/A	N/A	N/A	N/A	453

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
	··· · · · · · · · · · · · · · · · · ·		Verti	cal Delineatio	n Samples (co	ont'd)	المربع		
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

All concentrations are in mg/Kg



Sample Designation*	Date Sampled	Total Depth (feet bgs)	DRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total Chloride
		***	Final Ov	er-Excavation	n Confirmatio	n 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 Remedia	ation Guildeline	s/Recommendation	on		10				250

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* 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, NMProject Name:Pardue BProject Number:701165.002.01

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	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

	TPH DRO DRO	TPH GRO GRO
Sample - Field Code	(mg/Kg)	(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	\mathbf{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
-				1. 1

continued ...

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TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

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sample 205566 continued ...

Param	Flag	Result	Units	\mathbf{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	m 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



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WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: October 20, 2009

Work Order: 9081224

Project Location:Eddy Co., NMProject Name:Pardue BProject Number:701165.002.01

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

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	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.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blain Lepturch

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

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Standard Flags

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 ${\bf B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

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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.

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	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	1			
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

		R	ն				
Parameter Fla	g	Resul	t	Units		Dilution	\mathbf{RL}
Benzene		< 0.010	0	mg/Kg		1	0.0100
Toluene		< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene		< 0.010	0	mg/Kg		1	0.0100
Xylene		< 0.010	0	mg/Kg		1	0.0100
Total BTEX		< 0.060	0	mg/Kg		1	0.0600
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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

Chloride		933	mg/Kg	50	4.00
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
•		\mathbf{RL}			
Prep Batch:	53238	Sample Preparation:	2009-08-12	Prepared By:	AR
QC Batch:	62403	Date Analyzed:	2009-08-12	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 205565 - Comp. A

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 62623 53442	Analytical Method: Date Analyzed: Sample Preparation:	E 418.1 2009-08-18 2009-08-18	Prep Method: Analyzed By: Prepared By:	N/A CM CM
-	-	RL			
Parameter	Flag	Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

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Sample: 20	5565 - Comp. A							
Laboratory:	Midland							
Analysis:	TPH DRO		Analytical	Method:	Mod. 8015	В	Prep 1	Method: N/A
QC Batch:	62392		Date Anal	yzed:	2009-08-12		Analy	zed By: kg
Prep Batch:	53230		Sample Pr	eparation:	2009-08-12		Prepa	red By: kg
			\mathbf{RL}					
Parameter	Flag		Result		Units		Dilution	
DRO			<50.0		mg/Kg		1	50.0
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilut	tion A	mount	Recovery	Limits
n-Triacontan	e	101	mg/Kg	1		100	101	13.2 - 219.3
Sample: 20	5565 - Comp. A							
Laboratory:	Midland							
Analysis:	TPH GRO		Analytical	Method:	S 8015B		Prep Me	ethod: S 5035
OC Batch:	62420		Date Anal	vzed:	2009-08-12		Analyze	d By: ME
Prep Batch:	53252		Sample Pr	eparation:	2009-08-12		Prepare	d By: ME
			BL					
Parameter	Flag		Result		Units		Dilution	RL
GRO			1.10		mg/Kg		1	1.00
					0,			_
0		T 31	D 14	TT:***	D'1 '4'	Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	
1 Promofium	ene (1F1)		1.97	mg/Kg	1	2.00	98 100	08.5 - 119.4
4-bromonuor	obelizelle (4-DFD)	•	2.10	ing/Kg	L	2.00	109	31 - 135
Sample: 20	5566 - Comp. B							
Laboratory:	Midland							
Analysis:	BTEX, Total BTH	\mathbf{X}	Analy	tical Metho	od: S 8021	B	Prep Me	ethod: S 5035
QC Batch:	62419		Date	Analyzed:	2009-0	8-12	Analyze	d By: ME
Prep Batch:	53252		Samp	le Preparat	ion: 2009-0	8-12	Prepare	d By: ME
			BL					
Parameter	Flag		Result		Units		Dilution	$\mathbf{\hat{RL}}$
Benzene		<u></u>	< 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

701165.002.0	01			Pard	I age 1	Eddy Co	5., N		
Surrogate	Flag Result Units		Units	Dilution	Spike Amount	Percent Recovery	Reco Lin	overy	
4-Bromofluo	robenzene (4-BFB)		1.91 mg/Kg 1 $2.00 101$ $43 1.1$				144		
Sample: 20	5566 - Comp. B								
Laboratory:	Midland								
Analysis:	Chloride (Titration	ı)	Analy	tical Metho	d: SM 450	D-Cl B	Prep	Method:	N/
QC Batch:	62403		Date	Analyzed:	2009-08	-12	Analy	zed By:	Al
Prep Batch:	53238		Samp	ole Preparati	ion: 2009-08	-12	Prepa	red By:	A
Dana			RL Barrali		TT*4 -				,
Chlavila	Flag		Result				Dilution		1
Chloride			2040		mg/Kg	·	100		4
Laboratory: Analysis: OC Batch:	Lubbock TPH 418.1 62623		Analytic Data An	al Method:	E 418.1		Prep	Method:	N
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 62623 53442		Analytic Date An Sample I	al Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18		Prep J Analy Prepa	Method: zed By: red By:	N/ CI CI
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 62623 53442		Analytic Date An Sample I RL Bogylt	al Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18		Prep J Analy Prepa	Method: zed By: red By:	N, Cl Cl
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Lubbock TPH 418.1 62623 53442 Flag		Analytic Date An Sample B RL Result	al Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units		Prep Analy Prepa Dilution	Method: zed By: red By:	N Cl Cl
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC	Lubbock TPH 418.1 62623 53442 Flag		Analytic Date An Sample R Result <10.0	al Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg		Prep Analy Prepa Dilution 1	Method: zed By: red By:	N, Cl Cl I
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B		Analytic Date An Sample B RL Result <10.0	al Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg		Prep Analy Prepa Dilution 1	Method: zed By: red By:	N, CI CI I
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory:	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland		Analytic Date An Sample R Result <10.0	al Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg		Prep Analy Prepa Dilution 1	Method: zed By: red By:	N, Cl Cl I
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis:	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland TPH DRO		Analytic Date An Sample R REsult <10.0	al Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E	3	Prep J Analy Prepa Dilution 1 Prep J	Method: zed By: red By:	N, CI CI II II N,
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis: QC Batch:	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland TPH DRO 62392		Analytic Date An Sample B RL Result <10.0 Analytica Date Ana	al Method: alyzed: Preparation: 	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E 2009-08-12	3	Prep J Analy Prepa Dilution 1 Prep J Analy	Method: zed By: red By: 	N, Cl Cl I I N/ kg
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland TPH DRO 62392 53230		Analytic Date An Sample B RL Result <10.0 Analytica Date Ana Sample P	al Method: alyzed: Preparation: d Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E 2009-08-12 2009-08-12	3	Prep J Analy Prepa Dilution 1 Prep J Analy Prepa	Method: zed By: red By: Method: zed By: red By:	N/ CI II I(N/ kg kg
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch:	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland TPH DRO 62392 53230		Analytic Date An Sample H RL Result <10.0 Analytica Date Ana Sample P RL Result	al Method: alyzed: Preparation: dl Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E 2009-08-12 2009-08-12	3	Prep J Analy Prepa Dilution 1 Prep J Analy Prepa	Method: zed By: red By: Method: zed By: red By:	N/ CI CI II I(
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DBO	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland TPH DRO 62392 53230 Flag		Analytic Date An Sample I RL Result <10.0 Analytica Date Ana Sample P RL Result <50.0	al Method: alyzed: Preparation: d Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E 2009-08-12 2009-08-12 2009-08-12 Units mg/Kg	3	Prep J Analy Prepa Dilution 1 Prep J Analy Prepa Dilution	Method: zed By: red By: Method: zed By: red By:	N, Cl Cl II I(N/ kg kg
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland TPH DRO 62392 53230 Flag		Analytic Date An Sample H RL Result <10.0 Analytica Date Ana Sample P RL Result <50.0	al Method: alyzed: Preparation: dl Method: alyzed: preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E 2009-08-12 2009-08-12 2009-08-12 Units mg/Kg	3	Prep J Analy Prepa Dilution 1 Prep J Analy Prepa Dilution 1	Method: red By: red By: Method: red By: red By:	N/ CI II I(N/ kg kg II 50
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO	Lubbock TPH 418.1 62623 53442 Flag 5566 - Comp. B Midland TPH DRO 62392 53230 Flag	Decult	Analytic Date An Sample H RL Result <10.0 Analytica Date Ana Sample P RL Result <50.0	al Method: alyzed: Preparation: dl Method: alyzed: Preparation:	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E 2009-08-12 2009-08-12 2009-08-12 2009-08-12	3 Spike	Prep J Analy Prepa Dilution 1 Prep J Analy Prepa Dilution 1 Percent	Method: zed By: red By: Method: zed By: red By: red By:	N/CI CI II II N/kg kg II 50 ver
Laboratory: Analysis: QC Batch: Prep Batch: Parameter TRPHC Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO	Lubbock TPH 418.1 62623 53442 5566 - Comp. B Midland TPH DRO 62392 53230 Flag	Result	Analytic Date An Sample I RL Result <10.0 Analytica Date Ana Sample P RL Result <50.0 Units	al Method: Preparation: Preparation: dl Method: alyzed: Preparation: Dilut	E 418.1 2009-08-18 2009-08-18 Units mg/Kg Mod. 8015E 2009-08-12 2009-08-12 2009-08-12 Units mg/Kg	Spike mount	Prep J Analy Prepa Dilution 1 Prep J Analy Prepa Dilution 1 Percent Recovery	Method: zed By: red By: Method: zed By: red By: red By: red Dy:	N, Cl Cl I I I kg kg F 5 C ver iits

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Sample: 205	566 - Comp. B							
Laboratory:	Midland							
Analysis:	TPH GRO		Analytica	d Method:	S 8015B		Prep Me	ethod: S 5035
QC Batch:	62420		Date Ana	lyzed:	2009-08-12		Analyze	d By: ME
Prep Batch:	53252		Sample P	reparation:	2009-08-12		Prepare	d By: ME
			\mathbf{RL}					
Parameter	Flag		Result		Units		Dilution	RL
GRO			5.26		mg/Kg		1	1.00
<u></u>								
Sumarata		Flor	Docult	Unite	Dilution	Spike	Percent	Recovery
Trifluorotoluor		riag	<u>1 04</u>	mg/Kg		2.00	necovery 07	68.5 110.4
muorototuei			2.09	mg/Kg	1	2.00	104	31 - 135
4-Bromofluoro Sample: 205	567 - Comp. C							
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch:	567 - Comp. C Midland BTEX, Total BTEX 62419 53252		Anal Date Sam	lytical Meth 9 Analyzed: ple Prepara	od: S 8021F 2009-08 tion: 2009-08	} -12 -12	Prep Me Analyze Prepared	ethod: S 5035 d By: ME d By: ME
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch:	567 - Comp. C Midland BTEX, Total BTEX 62419 53252		Anal Date Sam RI	lytical Meth Analyzed: ple Prepara	od: S 8021F 2009-08 tion: 2009-08	3 -12 -12	Prep Me Analyze Preparec	ethod: S 5035 d By: ME d By: ME
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag		Anal Date Sam RI Resul	lytical Meth 9 Analyzed: ple Prepara 1 t	od: S 8021F 2009-08 tion: 2009-08 Units	3 -12 -12	Prep Me Analyze Prepared Dilution	ethod: S 5035 d By: ME d By: ME RL
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag		Anal Date Sam RI Resul <0.010	lytical Meth 9 Analyzed: ple Prepara 1 t 0	od: S 8021F 2009-08 tion: 2009-08 Units mg/Kg	3 -12 -12	Prep Me Analyze Prepare Dilution 1	ethod: S 5035 d By: ME d By: ME RL 0.0100
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag		Anal Date Sam RJ Resul <0.0100 <0.0100	lytical Meth 9 Analyzed: ple Prepara 1 1 1 0 0	od: S 8021H 2009-08 tion: 2009-08 Units mg/Kg mg/Kg	3 -12 -12	Prep Me Analyze Prepared Dilution 1 1	ethod: S 5035 d By: ME d By: ME <u>RL</u> 0.0100 0.0100
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag		Anal Date Sam RI Resul <0.0100 <0.0100 <0.0100 <0.0100	lytical Meth 9 Analyzed: ple Prepara 1 1 1 1 0 0 0	od: S 8021H 2009-08 tion: 2009-08 Units mg/Kg mg/Kg mg/Kg mg/Kg	3 -12 -12	Prep Me Analyzed Prepared Dilution 1 1 1	ethod: S 5035 d By: ME d By: ME RL 0.0100 0.0100 0.0100
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag		Anal Date Sam RI Resul <0.0100 <0.0100 <0.0100 <0.0100	lytical Meth 9 Analyzed: ple Prepara 1 t 0 0 0 0	od: S 8021F 2009-08 tion: 2009-08 Units mg/Kg mg/Kg mg/Kg mg/Kg	3 -12 -12	Prep Me Analyzed Prepared Dilution 1 1 1 1	ethod: S 5035 d By: ME d By: ME <u>RL</u> 0.0100 0.0100 0.0100 0.0100
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Total BTEX	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag		Anal Date Sam RI Resul <0.0100 <0.0100 <0.0100 <0.0100 <0.0100	lytical Meth 9 Analyzed: ple Prepara 1 t 0 0 0 0 0 0 0	od: S 80211 2009-08 tion: 2009-08 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	3 -12 -12	Prep Me Analyze Prepared Dilution 1 1 1 1 1 1	ethod: S 5035 d By: ME d By: ME
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Total BTEX	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag		Anal Date Sam RI Resul <0.0100 <0.0100 <0.0100 <0.0100 <0.0100	lytical Meth 9 Analyzed: ple Prepara 1 t 0 0 0 0 0 0	od: S 8021H 2009-08 tion: 2009-08 Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	3 -12 -12 Spike	Prep Me Analyzed Prepared Dilution 1 1 1 1 1 1 1 1 1 2 Percent	ethod: S 5035 d By: ME d By: ME
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Total BTEX Surrogate	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag	Flag	Anal Date Sam RI Resul <0.0100 <0.0100 <0.0100 <0.0100 <0.0600 Result	lytical Meth Analyzed: ple Prepara t t 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	od: S 8021F 2009-08 tion: 2009-08 Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	3 -12 -12 Spike Amount	Prep Me Analyzed Prepared Dilution 1 1 1 1 1 1 1 1 1 Recovery	ethod: S 5035 d By: ME d By: ME
4-Bromofluoro Sample: 205 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Total BTEX Surrogate Trifluorotoluen	567 - Comp. C Midland BTEX, Total BTEX 62419 53252 Flag	Flag	Anal Date Sam RI Resul <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0600 Result 2.01	lytical Meth 9 Analyzed: ple Prepara 1 t 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	od: S 8021F 2009-08 tion: 2009-08 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg 1	3 -12 -12 Spike <u>Amount</u> 2.00	Prep Me Analyze Prepared Dilution 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ethod: S 5035 d By: ME d By: ME

Sample: 205567 - Comp. C

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Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method: 1	N/A
QC Batch:	62403	Date Analyzed:	2009-08-12	Analyzed By:	AR
Prep Batch:	53238	Sample Preparation:	2009-08-12	Prepared By:	AR

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sample 205567 continued ...

	\mathbf{RL}			
Flag	Result	Units	Dilution	RL
	RL			
Flag	Result	Units	Dilution	\mathbf{RL}
	1350	mg/Kg	50	4.00
	Flag Flag	RLFlagResultRLFlagResult1350	RL Flag Result Units RL Flag Result Units 1350 mg/Kg	RLFlagResultUnitsDilutionRLFlagResultUnitsDilution1350mg/Kg50

Sample: 205567 - Comp. C

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 62623 53442	Analytical Method: Date Analyzed: Sample Preparation:	E 418.1 2009-08-18 2009-08-18	Prep Method: Analyzed By: Prepared By:	N/A CM CM
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
TRPHC		<10.0	mg/Kg	1	10.0

Sample: 205567 - Comp. C

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 62392 53230		Analytica Date Ana Sample P	l Method: Moo lyzed: 200 reparation: 200	d. 8015B 9-08-12 9-08-12	Prej Ana Prej	o Method: N/A lyzed By: kg pared By: kg
			RL				
Parameter		Flag	\mathbf{Result}	-	Units		\mathbf{RL}
DRO		······································	<50.0	m	g/Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	\mathbf{Units}	Dilution	$\mathbf{A}\mathbf{m}\mathbf{o}\mathbf{u}\mathbf{n}\mathbf{t}$	Recovery	Limits
n-Triacontane	е	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

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sample 205567 continued ...

			\mathbf{RL}						
Parameter		Flag	Result		Units		Dilution		RL
			DT						
Parameter		Flag	Result		Units		Dilution		BL
GRO		1 146	5.16		mg/Kg		1		1.00
							*		1.00
						Spike	Percent	Recc	overy
Surrogate		\mathbf{Flag}	Result	Units	Dilution	ı Amount	Recovery	Lin	nits
Trifluorotolu	ene (TFT)		1.94	mg/K	g 1	2.00	97	68.5 -	119.4
4-Bromofluor	robenzene (4-	-BFB)	2.03	mg/K	g 1	2.00	102	31 -	135
Method Bl	ank (1)	OC Batch: 62392							
Method Di	unk (1)	QC Datch. 02052							
QC Batch:	62392		Date Ana	alyzed:	2009-08-12		Ana	lyzed By:	: kg
Prep Batch:	53230		QC Prep	aration:	2009-08-12		Pre	pared By:	kg
				M	DI.				
Parameter		Flag		Res	ult	τ	Inits		\mathbf{RL}
DRO				<5	.86	m	g/Kg		50
							<u>or</u>		
_						Spike	Percent	Rec	overy
Surrogate	Flag	g Result	Units]	Dilution	Amount	Recovery	Liı	mits
n-Triacontan	e	100	mg/Kg		1	100	100	13 -	178.5
Method Bl	ank (1)	QC Batch: 62403							
QC Batch:	62403		Date Ana	lyzed:	2009-08-12		Analy	vzed By:	AR
Prep Batch:	53238		QC Prepa	ration:	2009-08-11		Prepa	ared By:	AR
				1.41					
Parameter		Flag		Res	ult	т	Inite		RI.
Chloride		1 145		<2	.18	<u>m</u>	g/Kg		4
							8/8		
Method Bl	ank (1)	QC Batch: 62419							
QC Batch:	62419		Date Ana	lvzed:	2009-08-12		Analy	zed By:	ME
Prep Batch:	53252		QC Prepa	ration:	2009-08-12		Prepa	red By:	ME

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Report Date: October 20, 2009 701165.002.01		Work Order Pardu	: 9081224 e B	Page Number: 10 of Eddy Co., N				
Parameter Benzene	Flag		MI Rest <0.001	DL 11t 00	Un mg/	its Kg	(RL
Toluene Ethylbenzene Xylene			<0.001 <0.001 <0.003	00 10 60	mg/ mg/ mg/	'Kg 'Kg 'Kg	(0.01 0.01 0.01
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recove Limit	ery s
4-Bromofluorobenzene (4-BFB)	i	2.05 2.39	mg/Kg mg/Kg	1	2.00 2.00	102 120	65.6 - 13 51.9 - 12	30.6 28.1
Method Blank (1) QC I	Batch: 62420							
QC Batch: 62420 Prep Batch: 53252		Date An QC Prep	alyzed: 20 paration: 20)09-08-12)09-08-12		Analy Prepa	zed By: M ared By: M	ME ME
Parameter	Flag		MDL Result		Uni	ts		RL_{-}
GRO			< 0.482		mg/1	Kg		1
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recove Limit	ery s
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	·	1.97 2.56	mg/Kg mg/Kg	1 1	2.00 2.00	98 128	71.9 - 1 38.1 - 14	15 46.2
Method Blank (1) QC I	Batch: 62623							
QC Batch: 62623 Prep Batch: 53442		Date Ana QC Prep	alyzed: 20 aration: 20)09-08-18)09-08-18		Analy Prepa	zed By: C red By: C	CM CM
Parameter	Flag		MDL Result		Unit	ts		RL
			< J.20			<u>лу</u>		10
Laboratory Control Spike (LCS-1)							
QC Batch: 62392 Prep Batch: 53230		Date An QC Prej	alyzed: 20 paration: 20	009-08-12 009-08-12		Anal Prep	yzed By: ared By:	kg kg

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continued ...

control spikes continued LCS Spike Matrix Param Result Units Dil. Amount Result F LCS Spike Matrix Matrix F Param Result Units Dil. Amount Result F DRO 195 mg/Kg 1 250 <5.86 6 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. LCSD Spike Matrix Rec. LCSD Spike Matrix Rec. Limit DRO 175 mg/Kg 1 250 <5.86 70 57.4 - 13 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. LCS LCS LCS Spike LCS LCS	Rec. Limit Rec. Limit 78 57.4 - 133.4 RPD Limit 3.4 11 20 SD Rec. Limit C. Limit Limit
LCSSpikeMatrixParamResultUnitsDil.AmountResultFLCSSpikeMatrixParamResultUnitsDil.AmountResultFDRO195mg/Kg1250<5.86Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.LCSDSpikeMatrixRec.ParamResultUnitsDil.AmountResultLCSDSpikeMatrixRec.LimitDRO175mg/Kg1250<5.867057.4 - 13Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.LCSLCSDSpikeLCSLCS	Rec. Limit Rec. Limit 78 57.4 - 133.4 RPD Limit 3.4 11 20 SD Rec. Limit C. Limit 20
ParamResultUnitsDil.AmountResultFLCSSpikeMatrixParamResultUnitsDil.AmountResultFDRO195mg/Kg1250<5.86FPercent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.LCSDSpikeMatrixRec.ParamResultUnitsDil.AmountResultDRO175mg/Kg1250<5.867057.4 - 13Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.LCSLCSSpikeLCSLCS	Rec. Limit Rec. Limit 78 57.4 - 133.4 RPD Limit 3.4 11 20 SD Rec. Limit c. Limit Limit
LCSSpikeMatrixParamResultUnitsDil.AmountResultFDRO195mg/Kg1250<5.86	Rec. Limit 78 57.4 - 133.4 RPD 3.4 11 20 SD Rec. c. Limit
ParamResultUnitsDil.AmountResultFDRO195mg/Kg1250<5.86	$\begin{array}{c c} & \text{Rec.} \\ \hline \text{Rec.} & \text{Limit} \\ \hline \hline 78 & 57.4 - 133.4 \\ \hline 78 & 57.4 \\ \hline 78 &$
Iteratin Iteratin Onts Dn. Amount Iteratin Iteration DRO 195 mg/Kg 1 250 <5.86	RPD RPD 3.4 11 20 SD Rec. c.
Dres Ing/Rg 1 200 (0.00) Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. LCSD Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. DRO 175 mg/Kg 1 250 <5.86	RPD RPD 3.4 11 20 SD Rec. c.
LCSD Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. DRO 175 mg/Kg 1 250 <5.86	RPD RPD Limit 3.4 11 20 SD Rec. c. Limit
LCSDSpikeMatrixRec.ParamResultUnitsDil.AmountResultRec.LimitDRO175mg/Kg1250<5.86	RPDRPDLimit3.41120SDRec.c.Limit
Param Result Units Dil. Amount Result Rec. Limit DRO 175 mg/Kg 1 250 <5.86	RPDLimit3.41120SDRec.c.Limit
DRO 175 mg/Kg 1 250 <5.86 70 57.4 - 13 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. LCS LCSD Spike LCS LCS	3.4 11 20 SD Rec. c. Limit
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.	SD Rec. c. Limit
LCS LCSD Spike LCS LCS	SD Rec. c. Limit
LCS LCSD Spike LCS LCS	SD Rec. c. Limit
Converses Decols Decols Dil America Di	c. Limit
Surrogate Result Result Units Dil. Amount Rec. Re	0 105 1467
<u>n-inacontane 104 92.4 mg/Kg 1 100 104 9.</u>	2 48.3 - 140.7
QC Batch:62403Date Analyzed:2009-08-12Prep Batch:53238QC Preparation:2009-08-11	Analyzed By: AR Prepared By: AR
LCS Spike Matrix	Rec.
Param Result Units Dil. Amount Result	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.	
LCSD Spike Matrix Bec	. RPD
Param Result Units Dil. Amount Result Rec. Limi	t RPD Limit
Chloride 102 mg/Kg 1 100 <2.18 102 85 - 1	15 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
LCS Spike Matrix	Rec.
Param Result Units Dil. Amount Result F	lec. Limit
Benzene 2.40 mg/Kg 1 2.00 <0.00100	20 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 1	120 70.8 - 129.7
Xylene 7.31 mg/Kg 1 6.00 <0.00360 1	122 70.9 - 129.4

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

Report Date: October 20, 2009 701165.002.01		Work Order: 9081224 Pardue B							Page Number: 12 of 17 Eddy Co., NM		
	LCSD			Spike	Ma	atrix]	Rec.		RPD
Param	Result	Units	Dil.	Amount	Re	esult	Rec.	L	.imit	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 s	pike result.	RPD is	based o	on the spik	e and	spike d	uplicat	e resul	t.		
	LCS	5 LC	SD			Spi	ke	LCS	LCSD	1	Rec.
Surrogate	Resu	lt Res	sult	Units	Dil.	Amo	unt	Rec.	Rec.	L	imit
Trifluorotoluene (TFT)	2.05	5 2.0	07	mg/Kg	1	2.0	0	102	104	65.9	9 - 132
4-Bromofluorobenzene (4-BFB)	2.45	5 2.3	39	mg/Kg	1	2.0	0	122	120	55.2	- 128.9
QC Batch: 62420 Prep Batch: 53252	,	Date Ar QC Pre	nalyzed paratio	: 2009-0 n: 2009-0)8-12)8-12				Analy Prepa	vzed By ared By	: ME ME
_		S		~	S	pike	Ma	ıtrix	-	I	Rec.
Param	Resu		Units	Dil.	An	iount	Re	sult	Rec.		imit
GRO	12.	7 п	ig/Kg	I	2	0.0	<0	.482	64	60.5	- 120.1
Percent recovery is based on the s	pike result.	RPD is	based o	on the spik	e and	spike d	uplicat	e resul	t.		
	LCSD			Spike	м	atriv		F	Roc		RPD
Param	Result	Units	Dil	Amount	t Re	esult	Rec	L	imit	RPD	Limit
GRO	12.2	mg/Kg	1	20.0	<	0.482	61	60.5	- 120.1	4	20
Demonst recovery is based on the s	nileo nogult		hogod c	n the spile		anilea di	unling t				
reicent recovery is based on the s	pike result.	ILI D IS	Daseu (n the spik	e anu	spike u	ipiicai	e tesui	ι.		
	LCS	LC LC	SD			Spil	ce	LCS	LCSD	F	lec.
Surrogate	Resu	lt Res	ult	Units	Dil.	Amo	unt	Rec.	Rec.	\mathbf{L}	imit
Trifluorotoluene (TFT)	1.87	1.8	87	mg/Kg	1	2.0	0	94	94	78.8	- 124.7
4-Bromofluorobenzene (4-BFB)	2.55	2.8	50	mg/Kg	1	2.0	0	128	125	66.1	- 128.3
Laboratory Control Spike (LC QC Batch: 62623 Prep Batch: 53442	CS-1)	Date Ar QC Prej	nalyzed paratio	: 2009-0 n: 2009-0	8-18 8-18				Analy Prepa	zed By: ared By:	CM CM
	LC	S			c	Sniko	N	latriv			Rec
Param	Res	ult	Units	Dil	A	mount	R	esult	Rec	1	Limit.
TRPHC	26	4 r	ng/Kg	1		250	<	(5.28	105	84	9 - 124

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

Report Date: October 20, 2009 701165.002.01			Work Order: 9081224 Pardue B					Page Number: 13 of 17 Eddy Co., NM		
Param TRPHC	******	LCSD Result 275	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <5.28	Rec.	Rec. Limit 84.9 - 124	RPD 4	RPD Limit 20
Percent recovery is based	l on the sp	oike result.	RPD is t	based on	the spike a	and spike d	uplicate	result.		
Matrix Spike (MS-1)	Spiked	Sample: 2	05565							
QC Batch: 62392 Prep Batch: 53230			Date An QC Pre	nalyzed: paration	2009-08 : 2009-08	-12 -12		A1 Pr	nalyzed H repared H	By: kg By: kg
Param		MS Resu	5 ilt U	Jnits	Dil.	Spike Amount	Mata Resu	rix ılt Rec.]	Rec. Limit
DRO		252	2 m	g/Kg	1	250	<5.8	86 101	35.2	2 - 167.1
Percent recovery is based	l on the sp	oike result.	RPD is l	based on	the spike a	and spike d	uplicate	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 sp	ike result.	RPD is l	pased on	the spike a	and spike d	uplicate	result.		
Surrogata	MS Besult	MSD Bosult	- TT	nite	Dil	Spike A mount	MS	MSD Bog	т	Rec.
n-Triacontane	113	110	mg	/Kg	1	100	113	. <u>nec.</u> 110	34.5	- 178.4
Matrix Spike (MS-1) QC Batch: 62403 Prep Batch: 53238	Spiked	Sample: 2	05437 Date An QC Prep	alyzed: paration:	2009-08- 2009-08-	12 11		Ana Pre	alyzed By pared By	7: AR 7: AR
D		M	S		5.1	Spike	М	atrix		Rec.
Param Chloride		109 Kes	ult	Units	Dil.	Amount		$\frac{10}{218}$	ec.	$\frac{\text{Limit}}{85 - 115}$
Percent recovery is based	on the en	ike result		used on	the spike a	and spike d	unlicate	result		20 - 110
recent recovery is based	on the sp	IKC 105010.	101 10 15 0	ascu on	ene spike e	and spike d	upiicate	result.		
Daraw		MSD Rosult	IInita	וית	Spike	Matrix	Pas	Rec.	ממם	RPD
Chloride		10300	mg/Kg	100	10000	 <218		85 - 115	<u> </u>	20 20
Parcant recovery is based	on the sp	ike result	RPD is h	asod on	the spike r	nd spike d	unlicato	rosult	*	
Matrix Spike (MS-1)	Spiked	Sample: 20	05567	ubed off	one opike e	and opine d	apricate	Logaro,		

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

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Report Date: October 20, 2009 701165.002.01			Work	Order: 908 Pardue B	31224			Page N	umber: Eddy (14 of 17 Co., NM
	MS	S			Spike	Ma	trix]	Rec.
Param	Rest	ult	Units	Dil.	Amount	Res	sult	Rec.	I	limit
Benzene	2.1	.3	mg/Kg	1	2.00	< 0.0	0100	106	58.6	- 165.2
Toluene	2.1	2	mg/Kg	1	2.00	<0.0	0100	106	64.2	- 153.8
Ethylbenzene	2.1	6	mg/Kg	1	2.00	<0.0	0110	108	61.6	- 159.4
Xylene	6.3	9	mg/Kg	1	6.00	<0.0	0360	106	64.4	- 155.3
Percent recovery is based on the s	spike result	. RPD	is based	on the spike	e and spike	duplicat	e result.			
	MSD			Spike	Matrix		R	ec.		RPD
Param	Result	Units	5 Dil.	Amount	Result	Rec.	Li	mit	RPD	Limit
Benzene	2.50	mg/K	g 1	2.00	< 0.0010) 125	58.6 -	· 165.2	16	20
Toluene	2.50	mg/K	g 1	2.00	< 0.0010) 125	64.2 -	153.8	16	20
Ethylbenzene	2.60	mg/K	g 1	2.00	<0.00110) 130	61.6 -	159.4	18	20
Xylene	7.75	mg/K	g 1	6.00	< 0.00360) 129	64.4 -	155.3	19	20
Percent recovery is based on the s	spike result	. RPD	is based	on the spike	e and spike	duplicat	e result.			
	Μ	IS	MSD			Spike	MS	MSI)	Rec.
Surrogate	Res	sult	Result	Units	Dil. A	Amount	Rec.	Rec		Limit
Trifluorotoluene (TFT)	2.0	00	2.00	mg/Kg	1	2	100	100	76	- 127.9
4-Bromofluorobenzene (4-BFB)	1.8	86	1.92	mg/Kg	1	2	93	96	72	- 127.8
Matrix Spike (MS-1) Spike QC Batch: 62420 Prep Batch: 53252	d Sample: 2	205565 Date QC P	Analyzed reparatic	l: 2009-08 on: 2009-08	8-12 8-12			Analy Prepa	vzed By ared By	: ME : ME
	M	S			Spike	Ma	trix		I	Rec.
Param	Res	ult	\mathbf{Units}	Dil.	Amount	\mathbf{Re}	\mathbf{sult}	Rec.	\mathbf{L}	imit
GRO	30.	.6	mg/Kg	1	20.0	1.1	032	147	12.8	- 175.2
Percent recovery is based on the s	spike result	. RPD	is based o	on the spike	e and spike	duplicat	e result.		_	
	MSD			Spike	Matrix		Re	ec.		RPD
Param	\mathbf{Result}	Units	s Dil.	Amount	Result	Rec.	Lin	nit	RPD	Limit
GRO	31.6	mg/K	lg 1	20.0	1.1032	152	12.8 -	175.2	3	20
Percent recovery is based on the s	pike result	. RPD	is based o	on the spike	e and spike	duplicat	e result. MS	MSD	T	Rec

	MS	MSD			Spike	\mathbf{MS}	MSD	Rec.
Surrogate	Result	Result	\mathbf{Units}	Dil.	Amount	Rec.	Rec.	\mathbf{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:	СМ

Report Date: October 20, 2009 701165.002.01			Work Order: 9081224 Pardue B				81224 Page Number: 15 of Eddy Co., N			
Param			MS Result 1	Units Dil	Spike . Amount	Matrix Result	Rec.	Rec.		
TRPHC			263 II	ig/Kg 1	250	45.3	87	10 - 196		
Percent rec	covery is based	on the spike res	ult. RPD is b	ased on the spi	ike and spike dup	plicate result.				
		MSI	D	Spi	ke Matrix	Re	c.	RPD		
Param		Resu	lt Units	Dil. Amo	ount Result	Rec. Lin	nit I	RPD Limit		
TRPHC		273	B mg/Kg	1 25	0 45.3	91 10 -	196	4 20		
Percent rec	covery is based	on the spike res	ult. RPD is b	ased on the spi	ke and spike du	plicate result.				
Standard	(CCV-1)									
QC Batch:	62392		Date An	alyzed: 2009-	08-12		Anal	yzed By: kg		
			\mathbf{CCVs}	CCVs	\mathbf{CCVs}	Percen	t			
			True	Found	Percent	Recover	ry	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	3	Analyzed		
DRO		mg/Kg	250	212	85	80 - 12	0	2009-08-12		
Standard QC Batch:	(CCV-2) 62392		Date An	alyzed: 2009-	08-12		Anal	yzed By: kg		
Standard QC Batch: Param	(CCV-2) 62392 Flag	Units	Date An CCVs True Conc.	alyzed: 2009- CCVs Found Conc.	08-12 CCVs Percent Recovery	Percen Recover Limits	Anal t ry	yzed By: kg Date Analyzed		
Standard QC Batch: Param DRO	(CCV-2) 62392 Flag	Units mg/Kg	Date An CCVs True Conc. 250	alyzed: 2009- CCVs Found Conc. 212	08-12 CCVs Percent Recovery 85	Percen Recover Limits 80 - 12	Anal t ry 5 0	yzed By: kg Date <u>Analyzed</u> 2009-08-12		
Standard QC Batch: Param DRO Standard QC Batch:	(CCV-2) 62392 Flag (ICV-1) 62403	Units mg/Kg	Date An CCVs True Conc. 250 Date Ana	alyzed: 2009- CCVs Found Conc. 212	08-12 CCVs Percent Recovery 85	Percen Recover Limits 80 - 12	Analy ty 3 0 Analy	yzed By: kg Date <u>Analyzed</u> 2009-08-12 zed By: AR		
Standard QC Batch: Param DRO Standard QC Batch:	(CCV-2) 62392 Flag (ICV-1) 62403	Units mg/Kg	Date An CCVs True Conc. 250 Date Ana	alyzed: 2009- CCVs Found Conc. 212 lyzed: 2009-0	08-12 CCVs Percent Recovery 85 08-12	Percen Recover Limits 80 - 12	Anal; t y <u>5</u> 0 Analy	yzed By: kg Date <u>Analyzed</u> 2009-08-12 zed By: AR		
Standard QC Batch: Param DRO Standard QC Batch:	(CCV-2) 62392 Flag (ICV-1) 62403	Units mg/Kg	Date An CCVs True Conc. 250 Date Ana ICVs True	alyzed: 2009- CCVs Found Conc. 212 lyzed: 2009-0 ICVs Found	08-12 CCVs Percent Recovery 85 08-12 ICVs Percent	Percen Recover Limits 80 - 12 Percen Recove	Analy ty 3 0 Analy ty	yzed By: kg Date <u>Analyzed</u> 2009-08-12 zed By: AR Date		
Standard QC Batch: Param DRO Standard QC Batch: Param	(CCV-2) 62392 Flag (ICV-1) 62403 Flag	Units mg/Kg Units	Date An CCVs True Conc. 250 Date Ana ICVs True Conc.	alyzed: 2009- CCVs Found Conc. 212 lyzed: 2009-0 ICVs Found Conc.	08-12 CCVs Percent Recovery 85 08-12 ICVs Percent Recovery	Percen Recover Limits 80 - 12 Percen Recover Limits	Analy ry 0 Analy tt	yzed By: kg Date <u>Analyzed</u> 2009-08-12 zed By: AR Date Analyzed		
Standard QC Batch: Param DRO Standard QC Batch: Param Chloride	(CCV-2) 62392 Flag (ICV-1) 62403 Flag	Units mg/Kg Units mg/Kg	Date An CCVs True Conc. 250 Date Ana ICVs True Conc. 100	alyzed: 2009- CCVs Found Conc. 212 Ilyzed: 2009-0 ICVs Found Conc. 100	08-12 CCVs Percent Recovery 85 08-12 ICVs Percent Recovery 100	Percen Recover Limits 80 - 12 Percen Recover Limits 85 - 11	Analy ry 5 0 Analy tt ry 5 5	yzed By: kg Date <u>Analyzed</u> 2009-08-12 zed By: AR Date <u>Analyzed</u> 2009-08-12		
Standard QC Batch: Param DRO Standard QC Batch: Param Chloride Standard QC Batch:	(CCV-2) 62392 Flag (ICV-1) 62403 Flag (CCV-1) 62403	Units mg/Kg Units mg/Kg	Date An CCVs True Conc. 250 Date Ana ICVs True Conc. 100 Date Ana	alyzed: 2009- CCVs Found Conc. 212 lyzed: 2009-0 ICVs Found Conc. 100	08-12 CCVs Percent Recovery 85 08-12 ICVs Percent Recovery 100	Percen Recover Limits 80 - 12 Percen Recover Limits 85 - 11	Analy t y 0 Analy t 5 Analy	yzed By: kg Date Analyzed 2009-08-12 zed By: AR Date Analyzed 2009-08-12 zed By: AR		
Standard QC Batch: Param DRO Standard QC Batch: Param Chloride Standard QC Batch:	(CCV-2) 62392 Flag (ICV-1) 62403 Flag (CCV-1) 62403	Units mg/Kg Units mg/Kg	Date An CCVs True Conc. 250 Date Ana ICVs True Conc. 100 Date Ana CCVs	alyzed: 2009- CCVs Found Conc. 212 dyzed: 2009-0 ICVs Found Conc. 100	08-12 CCVs Percent Recovery 85 08-12 ICVs Percent Recovery 100 08-12	Percen Recover Limits 80 - 12 Percen Recover Limits 85 - 11	Analy ry <u>5</u> 0 Analy t 5 Analy	yzed By: kg Date Analyzed 2009-08-12 zed By: AR Date Analyzed 2009-08-12 zed By: AR		
Standard QC Batch: Param DRO Standard QC Batch: Param Chloride Standard QC Batch:	(CCV-2) 62392 Flag (ICV-1) 62403 Flag (CCV-1) 62403	Units mg/Kg Units mg/Kg	Date An CCVs True Conc. 250 Date Ana ICVs True Conc. 100 Date Ana CCVs True	alyzed: 2009- CCVs Found Conc. 212 dyzed: 2009-0 ICVs Found Conc. 100 dyzed: 2009-0 CCVs Found	08-12 CCVs Percent Recovery 85 08-12 ICVs Percent Recovery 100 08-12 CCVs Percent	Percen Recover Limits 80 - 12 Percen Recover Limits 85 - 11 Percen Recover	Analy t Ty 0 Analy tt Ty 5 Analy tt	yzed By: kg Date Analyzed 2009-08-12 zed By: AR Date Analyzed 2009-08-12 zed By: AR		
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Report Date: (701165.002.01	October 20,	2009	Work	Order: 908 Pardue B	31224	Page Number: 16 of Eddy Co., I		
Standard (CC	CV-1)							
QC Batch: 62	419		Date Analyze	d: 2009-08-	-12	Anal	yzed By: ME	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Benzene		mg/Kg	0.100	0.112	112	80 - 120	2009-08-12	
Toluene		m 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 (CC	CV-2)							
QC Batch: 62	419		Date Analyze	d: 2009-08-	-12	Anal	yzed By: ME	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc	Conc	Recovery	Limits	Analyzed	
Benzene	1.48	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 (CC	CV-1)							
QC Batch: 62	, 420		Date Analyzed	1: 2009-08-	-12	Anal	yzed By: ME	
			CCVs	CCVs	CCVs	Porcent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc	Conc	Recovery	Limits	Analyzed	
GRO		mg/Kg	1.00	1.06	106	80 - 120	2009-08-12	
Standard (CC	CV-2)							
QC Batch: 62	420		Date Analyzed	1: 2009-08-	-12	Anal	yzed By: ME	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recoverv	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
GRO		mg/Kg	1.00	1.13	113	80 - 120	2009-08-12	
Standard (IC	V-1)							
QC Batch: 620	623		Date Analyzed	1: 2009-08-	-18	Analy	vzed By: CM	

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Report Date: October 20, 2009 701165.002.01			V	Vork Order: 908 Pardue B	Page Number: 17 of 17 Eddy Co., NM		
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 Anal	yzed: 2009-08	-18	Anal	yzed By: CM
			CCVs True	CCVs Found	CCVs Percent	Percent	Date
Param	Flag	Units	Conc.	Conc.	Recoverv	Limits	Analyzed
TRPHC		mg/Kg	100	99.7	100	80 - 120	2009-08-18

		LAB Order ID #	1081224	Page	of
TraceAnalysis, .email: lab@traceanalysis.cc	Inc.	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 8808 Camp E El Paso, Texas 79922 Ft. W Tel (915) 585-3443 Te Fax (915) 585-34944 Fa 1 (888) 588-3443	Bowie Blvd. West, Suite 180 Vorth, Texas 76116 I (817) 201-5260 x (817) 560-4336
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WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 21, 2009

Work Order: 9082002

Project Location:Eddy Co., NMProject Name:Pardue BProject Number:701165.002.01

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blain Leprinich

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

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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.

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	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.

Report Date: August 21, 2009	Work Order: 9082002	Page Number: 4 of 5
701165.002.01	Pardue B	Eddy Co., NM

Analytical Report

Sample: 206699 - E-Pit (P6)

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 62712 53504		Analytical Me Date Analyzed Sample Prepa	thod: SM l: 200 ration: 200	1 4500-Cl B 09-08-20 09-08-20		Prep Ana Prep) Method: lyzed By: pared By:	N/A AR AR
			RL						
Parameter	Flag	R	esult	Un	its	Di	ilution		RL
Chloride	······································	<	<200	mg/l	Kg		50		4.00
Method Bla	ank (1) QC Batch	: 62712							
OC Batch:	62712	Da	te Analyzed:	2009-08-2	0		An	alvzed Bv:	AR.
Prep Batch:	53504	00	Preparation:	2009-08-2	Õ		Pre	epared By:	AR
- 10p					-			F	
			MI	DL					
Parameter	Fla	g	Res	ult		Units			\mathbf{RL}
Chloride		<u> </u>	<2	.18		mg/K	g	A	4
Laboratory	Control Spike (LCS	-1)							
OC Batch:	62712	Da	te Analyzed:	2009-08-2	0		An	alvzed Bv:	AR.
Prep Batch:	53504		Preparation:	2009-08-2	0		Pre	pared By:	AR
Top Dutom	00001	40	1 topulation.		•			paroa 29.	
		LCS			Spike	Mat	rix		Rec.
Param		Result	Units	Dil.	Amount	Resu	ılt R	ec. J	Limit
Chloride		98.8	mg/Kg	1	100	<2.1	18 9	9 85	5 - 115
Percent recov	very is based on the spil	ke result. RP	D is based on t	the spike ar	nd spike dup	licate res	sult.		
		LCSD		Spike	Matrix		Rec		RPD
Param	,	Result U	nits Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	- · · · · · · · · · · · · · · · · · · ·	99.7 m	g/Kg 1	100	<2.18	100	85 - 115	1	20
Percent recov	very is based on the spil	ke result. RP	D is based on t	the spike ar	nd spike dup	licate res	sult.		

Matrix Spike (MS-1) Spiked Sample: 206699

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

Report Da	ate: August 21, 200)9	Work Order: 9082002						Page Number: 5 of 5		
701165.00	2.01			Pa	ardue B				Eddy	- Co., NM	
		Μ	IS			Spike	Ma	ıtrix		Rec.	
Param		Res	sult	Units	Dil.	Amount	Re	sult	Rec.	Limit	
Chloride		102	200 1	mg/Kg	100	10000	<:	218	100	85 - 115	
Percent rec	covery is based on	the spike result.	RPD is l	based on	the spike a	nd spike duj	olicate r	esult.			
		MSD			Spike	Matrix		Rec.		RPD	
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
Chloride		10300	mg/Kg	100	10000	<218	101	85 - 115	<u>i</u> 1	20	
Percent rec	covery is based on t	the spike result.	RPD is l	based on	the spike a	nd spike duj	olicate r	esult.			
Standard	(ICV-1)										
QC Batch:	62712		Date Analyzed: 2009-08-20					А	nalyzed F	By: AR	
			ICVs	IC	Vs	ICVs		Percent			
			True	For	und	Percent		Recovery		Date	
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	A	nalyzed	
<u>Chloride</u>		mg/Kg	100		9.5	100		85 - 115	20	009-08-20	
Standard	(CCV-1)										
QC Batch: 62712			Date An	alyzed:	2009-08-20	I		. A	nalyzed E	By: AR	
			CCVs	CO	CVs	CCVs		Percent			
			True	For	und	Percent		Recovery		Date	
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	А	analyzed	
Chloride		mg/Kg	100	1	01	101		85 - 115	20	09-08-20	

		LAB Order	10 # <u>90820</u>	002-		Page of
TraceAnalysis, email: lab@traceanalysis.cor	Inc.	6701 Aberdeen Avenue, S Lubbock, Texas 794/ Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296	iuite 9 5002 Bas 24 Midlar Tel (Fax (sin Street, Suite A1 200 nd, Texas 79703 432) 689-6301 (432) 689-6313) 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: Talan LIPE Midland	Pho	ene #:			ANALYSIS RE	EQUEST
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Lubbock, Toxas 79424 800+378+1296 El Paso, Texas 79922 889+598+3442 Micland, Texas 79703 Ft. Worth, Texas 76122 E-Mail: Jap@trace.inalysis.com 806+794+1296 +AX 800+794+1298 915+585+3443 FAX 915+585+4944 432+689+6301 FAX 432+689+6313 817+201+5160

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 21, 2009

Work Order: 9081939

Project Location:Eddy Co., NMProject Name:Pardue BProject Number:701165.002.01

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

			\mathbf{Date}	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blan / 7

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

Standard Flags

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 ${\bf B}\,$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

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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.

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	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.

Report Date: August 21, 2009	Work Order: 9081939	Page Number: 4 of 6
701165.002.01	Pardue B	Eddy Co., NM

Analytical Report

Sample: 206667 - E-1 (1')

Chloride		<200	mg/Kg	50	4.00
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Prep Batch:	53504	Sample Preparation	a: 2009-08-20	Prepared By:	AR
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

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
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		311	mg/Kg	50	4.00

Sample: 206669 - W-1 (1')

Analysis: QC Batch: Prep Batch:	Chloride (Titration) 62712 53504	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-08-20 2009-08-20	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		213	mg/Kg	50	4.00

Sample: 206670 - W-3 (3')

Midland				
Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
53504	Sample Preparation:	2009-08-20	Prepared By:	\mathbf{AR}
	Midland Chloride (Titration) 62712 53504	MidlandChloride (Titration)Analytical Method:62712Date Analyzed:53504Sample Preparation:	MidlandAnalytical Method:SM 4500-Cl B62712Date Analyzed:2009-08-2053504Sample Preparation:2009-08-20	MidlandAnalytical Method:SM 4500-Cl BPrep Method:62712Date Analyzed:2009-08-20Analyzed By:53504Sample Preparation:2009-08-20Prepared By:

Report Date: August 21, 2009 701165.002.01					Work O Pa	rder: 90819 ardue B		Page Number: 5 of 6 Eddy Co., NM			
Parameter		Flag		RL Result	, ;	Un	its		Dilution		\mathbf{RL}
Chloride	····			<200)	mg/l	Kg		50		4.00
Method Bl QC Batch: Prep Batch:	ank (1) 62712 53504	QC Batch:	62712	Date A QC Pre	nalyzed:	2009-08-2 2009-08-2	0		A	nalyzed E repared B	By: AR By: AR
				•						1	
Parameter		Flag	5		M Res	DL sult		Uni	ts		RL
Chloride					<2	.18		mg/l	Kg		4
QC Batch: Prep Batch:	62712 53504	F (200	~,	Date A QC Pre	nalyzed: eparation:	2009-08-2 2009-08-2	0 0		A P:	nalyzed E repared B	By: AR By: AR
Denom			LC	CS	II.	D:1	Spike	Ma	trix	Dee	Rec.
Param Chloride		<u> </u>		3.8	mg/Kg	<u></u>	100		<u>suit</u> 2.18	<u>Rec.</u> 99	$\frac{1}{85} - 115$
Percent reco	very is based	l on the spik	e result.	RPD is	based on	the spike an	nd spike du	plicate r	esult.		
			LCSD			Spike	Matrix		Rec.		RPD
Param			Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			99.7	mg/K	g 1	100	<2.18	100	85 - 115	1	20
Percent reco Matrix Spil QC Batch: Prep Batch:	ke (MS-1) 62712 53504	f on the spik	e result. ample: 20	RPD is 06699 Date Ar QC Pre	nalyzed:	2009-08-20 2009-08-20	od spike duj 0 0	plicate r	esult. A `Pi	nalyzed B repared B	By: AR By: AR
			М	S			Spike	Ma	trix		Rec.
Param			Res	ult	Units	Dil.	Amount	Re	sult	Rec.	Limit
Chloride			102	200	mg/Kg	100	10000	<2	218	100	85 - 115
Percent recov	very is based	on the spik	e result.	RPD is	based on t	the spike an	id spike duj	plicate r	esult.		
			MSD	T7 •.	T .11	Spike	Matrix		Rec.		RPD
D			L ogulf	Unite	DiL	Amount	Kesult	Rec.	Limit	RPD	Limit
Param			10200	malla	100	10000	<010	101	OF 115	1	

Report Date 701165.002.0	: August 21,)1	2009		Work Order: 90 Pardue B	Page Number: 6 of 6 Eddy Co., NM			
Standard (I	(CV-1)						,	
QC Batch:	62712		Date Ana	lyzed: 2009-08	Anal	lyzed 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 Ana	Date Analyzed: 2009-08-20			Analyzed By: AR		
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param Chloride	Flag	Units mg/Kg	<u>Conc.</u> 100	<u>Conc.</u> 101	Recovery 101	Limits 85 - 115	Analyzed 2009-08-20	

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			LAB Order	1D# (0819	939	Page of
Trace email:	Analysis,	Inc.	6701 Aberdeen Avenue, S Lubbock, Texas 794 Tel (806) 794-1296 Fax (806) 794-1299 1 (800) 378-1296	Suite 9 5002 Basin 24 Midland 5 Tel (43 3 Fax (43	Street, Suite A1 , Texas 78703 200 East Sunset F 200 East Sunset F El Paso, Texas 32) 689-6301 Tel (915) 585 32) 689-6313 Fax (915) 583 1 (888) 588 1 (888) 588	Rd., Suite E 8808 Camp Bowie Blvd. West, Suite 180 5 79922 Ft. Worth, Texas 76115 5-3443 Tel (817) 201-5260 5-4944 Fax (817) 560-4336 -3443
Company Name: Talen LA	the Artor	aptor Phon	At Sland		ANAL	YSIS REQUEST
Address: (Street, City, Zip)	49 midlal	d TA Fax#	E			pecify Method No.)
Contact Person: Kyle Su	mmzrs	E-ma	"ksummer	saturalite	2000 G BBZ000	dard
Invoice to: (If different from above) BT	۹	<u>, and , </u>			24 24 10 10 10 10 10 10 10 10 10 10 10 10 10	m star
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Relinquished by: Company	Date: Time:	Received by:	Company: Date:	Time: Tem	p°c:	TRRP Report Required Check If Special Reporting Limits Are Needed
Submittal of samples constitutes a	greement to Terms and Co	nditions listed on reve	erse side of C. O. C.		Carrier #	

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 6701 Aberdeen Avenue, Suite 9
 Lubbock, Texas 79424

 200 East S inset Road, Suite E
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 FAX 915+585+4944

 432+669+6301
 FAX 432+689+6313

 817+201+5260
 FAX 432+689+6313

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: September 18, 2009

Work Order: 9082733

Project Location:Eddy Co., NMProject Name:PardueProject Number:701165.002.01

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

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.

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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.

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	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 Re	eport		
Sample: 20	8258 - A-2'				`
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		930	ing/Kg	10	3.25
Sample: 20 Laboratory:	8259 - A-3' Lubbock				
Analysis: OC Batch:	Chloride (Titration) 63701	Analytical Method: Date Analyzed:	SM 4500-Cl B 2009-09-18	Prep Method: Analyzed By:	N/A KV
Prep Batch:	54385	Sample Preparation:	2009-09-18	Prepared By:	KV
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Chloride		41.6	mg/Kg	10	3.25
Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch:	8260 - A-4' Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Chloride		51.8	mg/Kg	10	3.25
Sample: 20 Laboratory: Analysis: QC Batch:	8261 - A-5' Lubbock Chloride (Titration) 63701	Analytical Method: Date Analyzed:	SM 4500-Cl B 2009-09-18	Prep Method: Analyzed By:	N/A KV

Work Order: 9082733 Pardue

Report Date: September 18, 2009 701165.002.01

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

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Page Number: 4 of 17 Eddy Co., NM

Report Date: September 18, 2009 701165.002.01	Work Order: 9082733 Pardue	Page Number: 5 of 17 Eddy Co., NM
sample 208261 continued		
	RL	

Parameter	Flag	Result	Units	Dilution	RL
		RL			
Parameter	\mathbf{Flag}	\mathbf{Result}	\mathbf{Units}	Dilution	\mathbf{RL}
Chloride		240	mg/Kg	10	3.25

Sample: 208263 - B-2'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 ~ 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
1		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		97.5	mg/Kg	10	3.25

Sample: 208264 - B-3'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		36.6	mg/Kg	10	3.25

Sample: 208265 - B-4'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2009-09-18 : 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		<32.5	mg/Kg	10	3.25

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	: September 18, 2009 11	Work Order: Pardue	9082733	Page Number: 6 of 1 Eddy Co., N	
Sample: 20	8266 - B-5'				
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		36.6	ng/Kg	10	3.25
	Y				
Sample: 20	8268 - C-2'				
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
Parameter	Flag	RL Besult	Unite	Dilution	RI.
Chloride	1 105	879	<u>ng/Kg</u>	10	3 25
Samulat 20	8269 - C-3'				
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385	Analytical Method: Date Analyzed: Sample Preparation: RL	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Lubbock Chloride (Titration) 63701 54385 Flag	Analytical Method: Date Analyzed: Sample Preparation: RL Result	SM 4500-Cl B 2009-09-18 2009-09-18 Units	Prep Method: Analyzed By: Prepared By: Dilution	N/A KV KV RL
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride	Lubbock Chloride (Titration) 63701 54385 Flag	Analytical Method: Date Analyzed: Sample Preparation: RL Result 747	SM 4500-Cl B 2009-09-18 2009-09-18 Units ng/Kg	Prep Method: Analyzed By: Prepared By: Dilution 10	N/A KV KV RL 3.25
Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 20	Lubbock Chloride (Titration) 63701 54385 Flag 8270 - C-4'	Analytical Method: Date Analyzed: Sample Preparation: RL Result 747	SM 4500-Cl B 2009-09-18 2009-09-18 Units ng/Kg	Prep Method: Analyzed By: Prepared By: Dilution 10	N/A KV KV RL 3.25
Laboratory: Analysis: QC Batch: Prep Batch: Parameter Chloride Sample: 20 Laboratory:	Lubbock Chloride (Titration) 63701 54385 Flag 8270 - C-4' Lubbock	Analytical Method: Date Analyzed: Sample Preparation: RL Result 747	SM 4500-Cl B 2009-09-18 2009-09-18 Units ng/Kg	Prep Method: Analyzed By: Prepared By: Dilution 10	N/A KV KV RL 3.25
Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 203 Laboratory: Analysis:	Lubbock Chloride (Titration) 63701 54385 Flag 8270 - C-4' Lubbock Chloride (Titration)	Analytical Method: Date Analyzed: Sample Preparation: RL Result 747	SM 4500-Cl B 2009-09-18 2009-09-18 Units ng/Kg SM 4500-Cl B	Prep Method: Analyzed By: Prepared By: Dilution 10 Prep Method:	N/A KV KV RL 3.25
Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 20 Laboratory: Analysis: QC Batch:	Lubbock Chloride (Titration) 63701 54385 Flag 8270 - C-4' Lubbock Chloride (Titration) 63702	Analytical Method: Date Analyzed: Sample Preparation: RL Result 747 1 Analytical Method: Date Analyzed:	SM 4500-Cl B 2009-09-18 2009-09-18 Units ng/Kg SM 4500-Cl B 2009-09-18	Prep Method: Analyzed By: Prepared By: Dilution 10 Prep Method: Analyzed By:	N/A KV KV RL 3.25
Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Chloride Sample: 20 Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385 Flag 8270 - C-4' Lubbock Chloride (Titration) 63702 54386	Analytical Method: Date Analyzed: Sample Preparation: RL Result 747 1 Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18 Units ng/Kg SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By: Dilution 10 Prep Method: Analyzed By: Prepared By:	N/A KV KV RL 3.25 N/A KV KV
Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Chloride Sample: 200 Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63701 54385 Flag 8270 - C-4' Lubbock Chloride (Titration) 63702 54386	Analytical Method: Date Analyzed: Sample Preparation: RL Result 747 1 Analytical Method: Date Analyzed: Sample Preparation: RL	SM 4500-Cl B 2009-09-18 2009-09-18 Units ng/Kg SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By: Dilution 10 Prep Method: Analyzed By: Prepared By:	N/A KV KV RL 3.25 N/A KV KV

Report Date: September 18, 2009	Work Order: 9082733	Page Number: 7 of 17
701165.002.01	Pardue	Eddy Co., NM

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
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		161 1	ng/Kg	1	3.25

Sample: 208273 - D-2'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63702 54386	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
D		RL	TT •.		DI
Parameter	Flag	Result	Units	Dilution	RL
Chloride		2170 1	ng/Kg	100	3.25

Sample: 208274 - D-3'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63702 54386	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
	<i>,</i>	RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		1400	mg/Kg	10	3.25

Sample: 208275 - D-4'

Chloride		1460	mg/Kg	10	3.25
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Lubbock				

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Report Date: September 18, 2009	Work Order: 9082733	Page Number: 8 of 17
701165.002.01	Pardue	Eddy Co., NM
Sample: 208276 - D-5'		

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63702 54386	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{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:	КV
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV
		\mathbf{RL}			
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
<u>Chloride</u>		6150	mg/Kg	100	3.25

Sample: 208279 - E-3'

Chloride		2720	ng/Kg	100	3.25
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV
Laboratory: Analysis: QC Batch:	Lubbock Chloride (Titration) 63702	Analytical Method: Date Analyzed:	SM 4500-Cl B 2009-09-18	Prep Method: Analyzed By:	N/A KV

Sample: 208280 - E-4'

Chloride		2000	mg/Kg	10	3.25
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Prep Batch:	54386	Sample Preparation:	2009-09-18	Prepared By:	KV
QC Batch:	63702	Date Analyzed:	2009-09-18	Analyzed By:	KV
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Lubbock				

Report Date: September 18, 2009 701165.002.01		Work Order: 9082733 Pardue		Page Number: 9 of 17 Eddy Co., NM	
Sample: 20	8282 - 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
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		101	mg/Kg	10	3.25

Sample: 208283 - F-3'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63703 54387	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride	······································	584	mg/Kg	10	3.25

Sample: 208284 - F-4'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63703 54387	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		766	mg/Kg	10	3.25

Sample: 208285 - F-5'

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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
		\mathbf{RL}			
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		1350	mg/Kg	10	3.25

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Sample: 208287 - G-2'

Chloride		453	ng/Kg	10	3.25
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54387	Sample Preparation:	2009-09-18	Prepared By:	KV
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Lubbock				

Sample: 208288 - G-3'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63703 54387	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride	ι	746	mg/Kg	10	3.25

Sample: 208289 - G-4'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63703 54387	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		120	ng/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
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride	· · · · · · · · · · · · · · · · · · ·	<32.5	ng/Kg	10	3.25

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Sample: 208292 - H-2'

		RL			
r rep batch:	94907	Sample r reparation:	2009-09-18	r repared by.	Κv
Drop Batch	54297	Sample Propagation:	2000 00 18	Propared By:	KV
QC Batch:	63703	Date Analyzed:	2009-09-18	Analyzed By:	KV
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Lubbock				

Sample: 208293 - H-3'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63703 54387	Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2009-09-18 : 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		4030	mg/Kg	100	3.25

Sample: 208294 - H-4'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63703 54387	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{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
		\mathbf{RL}			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		1490	mg/Kg	10	3.25

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Sample: 20	8297 - 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
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		226 1	ng/Kg	10	3.25

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Sample: 208298 - I-3'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63704 54388	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<32.5	mg/Kg	10	3.25

Sample: 208299 - I-4'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63704 54388	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{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:	ΚV
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<162	mg/Kg	50	3.25

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Sample: 208302 - K-2'

Chloride		13000	mg/Kg	100	3.25
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54388	Sample Preparation:	2009-09-18	Prepared By:	KV
QC Batch:	63704	Date Analyzed:	2009-09-18	Analyzed By:	$\mathbf{K}\mathbf{V}$
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Lubbock				

Sample: 208303 - K-3'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63704 54388	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		6120	mg/Kg	100	3.25

Sample: 208304 - K-4'

.

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 63704 54388	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-09-18 2009-09-18	Prep Method: Analyzed By: Prepared By:	N/A KV KV
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		1250	mg/Kg	100	3.25

Method Blank (1) QC Batch: 63701					
QC Batch: 63701 Prep Batch: 54385	5	Date Analyzed: QC Preparation:	2009-09-18 2009-09-18		Analyzed By: Prepared By:	KV KV
Parameter	Flag	MI Reso	DL 1lt	Units		RL
Chloride		<1.	80	mg/Kg		3.25

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Method Bla	nk (1)	QC Batch: 6370	2						
QC Batch: Prep Batch:	63702 54386		Date QC 1	Analyzed: Preparation:	2009-09-18 2009-09-18	5		Analyzed By: Prepared By:	KV KV
				MI	DL				
Parameter Chloride		Flag		Resi <1.	ult 80		Units mg/Kg		$\frac{\text{RL}}{3.25}$
					·····				
Method Bla	nk (1)	QC Batch: 63703	3						
QC Batch: Prep Batch:	63703 54387		Date QC 1	Analyzed: Preparation:	2009-09-18 2009-09-18	5		Analyzed By: Prepared By:	KV KV
				MI	DL				
Parameter Chloride	<u></u>	Flag		Resi	ult		Units mg/Kg		$\frac{\text{RL}}{3.25}$
Method Bla	nk (1)	QC Batch: 63704	4						
QC Batch: Prep Batch:	63704 54388		Date QC 1	Analyzed: Preparation:	2009-09-18 2009-09-18			Analyzed By: Prepared By:	KV KV
				١٨٢	זר				
Parameter		Flag		Rest	ult		Units		\mathbf{RL}
Chloride				<1.	80		mg/Kg		3.25
Matrix Spik	e (MS-1)	Spiked Sample:	: 208260						
QC Batch:	63701		Date	Analyzed:	2009-09-18	;		Analyzed By:	KV
Prep Batch:	54385		QC 1	Preparation:	2009-09-18	i		Prepared By:	KV
			MS			Spike	Matrix]	Rec.
Param		F	Result	Units	Dil.	Amount	Result	Rec. I	Jimit
Unioride		=	400	mg/ng	10	000	240	-2 80	7 - 120

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

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

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Param	N Re	ISD esult	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec.	RPD	RPD Limit
Chloride		234	mg/Kį	g 10	500	240	-1	80 - 120	2	20
Percent recovery is based on t	he spike r	result. 1	RPD is	based on	the spike and	l spike duj	olicate r	esult.		
Matrix Spike (MS-1) Sp	iked Sam	ple: 20	8282							
QC Batch: 63702			Date A	nalyzed:	2009-09-18			An	alyzed By	y: KV
Prep Batch: 54386			QC Pre	paration:	2009-09-18			Pre	epared By	v: KV
		MS	}			Spike	Ma	trix		Rec.
Param		Resu	lt	Units	Dil.	Amount	Res	sultF	lec.	Limit
Chloride	3	242	2	mg/Kg	10	500	1()1	28	80 - 120
Percent recovery is based on t	he spike r	esult. 1	RPD is	based on	the spike and	l spike dup	olicate re	esult.		
	M	ISD			Spike	Matrix		Rec.		RPD
Param	Re	esult	Units	Dil.	Amount	Result	Rec.	Limit	RPD	<u>Limit</u>
Chloride	1 2	249	mg/Kg	<u>g 10</u>	500	101	30	80 - 120	3	20
Matrix Spike (MS-1) Sp QC Batch: 63703 Prep Batch: 54387	iked Sam	ple: 208	8290 Date A1 QC Pre	nalyzed: paration:	2009-09-18 2009-09-18			An Pre	alyzed By epared By	v: KV v: KV
		MS				Spike	Ma	trix		Rec.
Param		Resu	lt	Units	Dil.	Amount	Res	sult R	lec.	Limit
Chloride	5	226		mg/Kg	10	500	29	.3	39	80 - 120
Percent recovery is based on the	he spike r	esult. I	RPD is	based on	the spike and	l spike dup	olicate re	esult.		
	Μ	ISD			Spike	Matrix		Rec.		RPD
Param	Re	sult	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	⁶ 2	30	mg/Kg	<u>s 10</u>	500	29.3	40	80 - 120	2	20
Percent recovery is based on th Matrix Spike (MS-1) Sp	ne spike r iked Sam	esult. H ple: 208	RPD is 3295	based on t	the spike and	l spike dup	olicate re	esult.		
UC Batch: 03704 Drop Datch: 54299		1	Date Ar	alyzed:	2009-09-18			An	alyzed By	Y: KV
² Matrix spike recovery out of cor ³ Matrix spike recovery out of cor	ntrol limits atrol limits	due to n due to n	natrix inf	terference.	Use LCS/LCSE Use LCS/LCSE) to demons) to demons	trate anal trate anal	ysis is under ysis is under	control.	, IX V

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

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			MS			Spike	Ma	atrix		Rec.
Param			Result	Units	Dil.	Amount	Re	sult R	lec.	Limit
Chloride		7	2470	mg/Kg	10	500	14	490 1	.96	80 - 120
Percent rec	overy is based	on the spike res	ult. RPD is	based on	the spike a	nd spike duj	olicate 1	esult.		
		MS	D		Snike	Matrix		Rec		RPD
Param		Resi	ilt Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		8 247	0 mg/Kg	<u>z 10</u>	500	1490	196	80 - 120	0	20
Percent rec	overy is based	on the spike res	ult. RPD is	based on	the spike a	nd spike du	olicate r	esult.		
	```	-			-					
Standard	(ICV-1)									
QC Batch:	63701		Date Ar	nalyzed:	2009-09-18			An	alyzed E	y: KV
			ICVs	IC	CVs	ICVs		Percent		
			True	Fo	ound	Percent		Recovery		Date
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	A	nalyzed
Chloride		mg/Kg	100	9	9.9	100		85 - 115	20	09-09-18
Standard QC Batch:	(CCV-1) 63701		Date Ar	nalyzed:	2009-09-18			An	alyzed E	sy: KV
			CCVs	C	CVs	CCVs		Percent		
			True	Fo	ound	Percent		Recoverv		Date
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	A	nalyzed
Chloride		mg/Kg	100	1	.00	100		85 - 115	20	09-09-18
Standard (	(ICV-1)									
QC Batch:	63702		Date Ar	alyzed:	2009-09-18			Ana	alyzed B	y: KV
			ICVs	IC	CVs	ICVs		Percent		
			True	Fo	und	Percent	]	Recovery		Date
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	А	nalyzed
Chloride		mg/Kg	100	9	9.8	100		85 - 115	20	09-09-18
Standard ( QC Batch:	(CCV-1) 63702		Date An	alvzed:	2009-09-18			Au	alvzed B	v: KV

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

Report Date: September 18, 2009 701165.002.01				Work Order: 9 Pardue	Page Number: 17 of 17 Eddy Co., NM		
		<b>TT 1</b> .	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-09-18
Standard (I	ICV-1)						
QC Batch:	63703		Date Ana	lyzed: 2009-09	9-18	Anal	yzed By: KV
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-09-18
Standard ( QC Batch:	CCV-1) 63703		Date Anal	lyzed: 2009-09	9-18	Anal	yzed By: KV
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2009-09-18
Standard (]	ICV-1)						
QC Batch:	63704		Date Anal	lyzed: 2009-09	9-18	Anal	yzed By: KV
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-09-18
Standard ((	CCV-1)						
QC Batch:	63704		Date Anal	yzed: 2009-09	-18	Anal	yzed By: KV
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2009-09-18

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208258	A-2'	1	402	X						X	+-	812610	4:00	1	$\uparrow$		+					+-	-			+	X					$\overline{\mathbf{v}}$					
259	A-3' *	1	Yoz	1						X		8/26/09	4:04				1		1							+	X					Ŷ					
200	A-4	1	Yoz	X						X		8/26/19	4:09										1			1	X	1				X					
261	A-5'	1	4.2	X	·					χ	1	8/26/09	4:10				1					Ť	-			+	X	1				X					
262	A-6'	1	402	X						X		8/26/04	4:14	T									+			1	X										
2103	B-2'	1	402	X						X		8126/09	3:16						-	1		1				-	X					X					
-2104	B-3'	1	402	X						X		8126/0	3:19										1			T	X					X					
265	B-4'	Í	402	X	1					X	1	8/26/09	3:24														X					X					
266	B-5'	1	toz	1						X		8/24/09	3:29										1				X					X					
267	B-6'	1	Yoz	X						X		8126/07	3:35														X										
248	C-2'	1	402	X						X		81240	2:45														X					X					
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270	C-4'	1	402		X							X		8/26/0	42:5	7	+		$\uparrow$				-		+		1	T			X	+	1	1		X
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281	E-5'	1	402		X						X	1		8/26/04	)1:00	Π													Π	X		T			
282	F-2'	1	402		X						X			8126/04	4:15														Π	X			Τ		X
283	F-3'	·J	402		X						X	$\langle$		5/24/09	418															X					X
284	E-4'	1	402		X						X			8/24/09	4:21															X					X
285	F-5'	1	402		X						X			8/24/09	4:24															X					X
286	F-6'	1	402		X						X			8/21/09	Y:27	,														X					
287	6-2'	1	402		$\boldsymbol{X}$						/			8/26/69	3.45															X					X
288	6-3'	1	4.02		X						X			8/24/04	3:48															X					X
289	G-4'	1	402		$\boldsymbol{X}$						X			8/26/09	3:51															X					X
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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., NMProject Name:Pardue BProject Number:701165.002.01

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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	$\mathbf{Units}$	$\operatorname{RL}$
Chloride		<200	mg/Kg	4.00

#### Sample: 212095 - BH-H

Param	Flag	Result	Units	RL
Chloride	· · · · · · · · · · · · · · · · · · ·	532	mg/Kg	4.00
N				
Sample: 212096	- BH-F			
Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		<200	mg/Kg	4.00

#### Sample: 212097 - BH-D

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TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: Octo	ber 14, 2009	Work Order: 9100927		Page Number: 2 of 2
Param	Flag	Result	Units	RL
Chloride		320	mg/Kg	4.00

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TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.



6701 Aberdeen Avenue, Suite 9 200 East Suncet Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 800 • 378 • 1296 E: Paso, Texas 79922 888 • 588 • 3443 Midland, Jexas 79703 Ft. Worth, Texas 76132 E-Mail, lab@traceanalysts.com

806 • 794 • 1296 915+585+3443 432 • 689 • 6301 817 • 201 • 5260

FAX 806 • 794 • 1298 FAX 915+585+4944 FAX 432 • 689 • 6313

**WBENC: 237019** 

HUB: 1752439743100-86536 **NCTRCA** WFWB38444Y0909

Certifications

**DBE:** VN 20657

#### **NELAP** Certifications

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

El Paso: T104704221-08-TX LELAP-02002

Midland: T104704392-08-TX

### Analytical and Quality Control Report

**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 701165.002.01 **Project Number:** 

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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	$\mathbf{BH} extsf{-F}$	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.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

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.

		Prep	Prep	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	Batch	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.

Report Date: October 14, 2009	Work Order: 9100927	Page Number: 4 of 6
701165.002.01	Pardue B	Eddy Co., NM

# **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
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
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
		$\operatorname{RL}$			
Parameter	Flag	$\operatorname{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		532 1	ng/Kg	50	4.00

#### Sample: 212096 - BH-F

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 64407 54964	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-10-13 2009-10-12	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	$\mathbf{Flag}$	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

#### Sample: 212097 - BH-D

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

continued ...

Report Date: Octob 701165.002.01	er 14, 2009	Work Order: 9100927 Pardue B			Page Number: 5 of 6 Eddy Co., NM				
sample 212097 contin	rued								
		$\mathbf{RL}$							
Parameter	Flag	Result		Un	its	D	ilution		RL
		$\mathbf{RL}$							
Parameter	Flag	Result		Un	its	D	ilution		RL
Chloride		320		mg/l	Kg	~	50	<u></u>	4.00
Method Blank (1)	QC Batch: 64407								~
QC Batch: 64407 Prep Batch: 54964		Date Analy QC Prepara	zed: ation:	2009-10-1 2009-10-1	3 2			Analyzed B Prepared B	y: AR y: AR
D			MI	DL		FT *.			DŤ
Parameter Chlorida	Flag		Resu			Units			<u>KL</u>
QC Batch: 64407 Prep Batch: 54964	L	Date Analy QC Prepara	zed: ation:	2009-10-1 2009-10-1	3 2 Spike	Mat	rix	Analyzed B Prepared B	y: AR y: AR Bec.
Param	Res	sult Un	its	Dil.	Amount	Res	ult	Rec.	Limit
Chloride	1(	)1 mg/	/Kg	1	100	<2.	18	101	85 - 115
Percent recovery is b	ased on the spike result.	RPD is base	ed on t	he spike ar	nd spike duj	olicate re	sult.		
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limi	t RPD	RPD Limit
Chloride	99.4	mg/Kg	$\frac{1}{2}$	100	<2.18	99	<u>85 - 11</u>	15 2	20
rencent recovery is b	ased on the spike result.	ILI D IS Dase	su on t	në spikë ai	iu spike duj	mcate le	suit.		
Matrix Spike (MS	-1) Spiked Sample: 2	12097							
QC Batch: 64407		Date Analy	zed:	2009-10-1	3			Analyzed B	y: AR
Prep Batch: 54964		QC Prepara	ation:	2009-10-1	2			Prepared B	y: AR
	М	S			Spike	Mat	rix		Rec.
Param	Res	ult Uni	its	Dil.	Amount	Res	<u>ilt</u>	Rec.	Limit
Chloride	107	00 mg/	Kg	100	10000	32	0	104	85 - 115
Percent recovery is ba	ased on the spike result.	RPD is base	ed on t	he spike ar	ıd spike duş	olicate re	sult.		

Report Date: October 14, 2009 701165.002.01			Work Order: 9100927 Pardue B					Page Number: 6 of 6 Eddy Co., NM		
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 rec	overy is based	on the spike result.	RPD is ba	sed on	the spike ar	nd spike du	plicate i	result.		
Standard QC Batch:	(ICV-1) 64407		Date Ana	lyzed:	2009-10-13			Ana	alyzed By	: AR
			ICVs	IC	Vs	ICVs		Percent		
			True	Fou	ind	Percent		Recovery	Ι	Date
Param	Flag	Units	Conc.	Co	nc.	Recovery		Limits	An	alyzed
Chloride		mg/Kg	100	99	).6	100		85 - 115	200	9-10-13
Standard	(CCV-1)									
QC Batch:	64407		Date Anal	lyzed:	2009-10-13			Ana	alyzed By	: AR
			CCVs	CC	CVs	CCVs		Percent		
			True	Fo	und	Percent		Recovery	I	Date
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	An	alyzed
Chloride		mg/Kg	100	10	00	100		85 - 115	200	9-10-13

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LAB Order ID # 4106927					Page of
TraceAnaly email: lab@tracear	<b>VSIS</b> , nalysis.com	Inc.	6701 Aberdeen Avenue, S Lubbock, Texas 794 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296	Suite 9 5002 Bas 24 Midian Tel ( Fax (	sin Street, Suite A1         200 East Sunset Rd., Suite E         8808 Camp Bowie Blvd. West, Suite 1           nd, Texas 79703         El Paso, Texas 79922         Ft. Worth, Texas 76116           (432) 689-6301         Tel (915) 585-3443         Tel (817) 201-5260           (432) 689-6313         Fax (915) 585-4944         Fax (817) 560-4336           1 (868) 588-3443         1 (868) 588-3443
Company Name: Talph L.P.F.		Pho	ne #432 ~522	2133	ANALYSIS REQUEST
Address: (Street, City, Zip)		Fax	#:		(Circle or Specify Method No.)
Contact Person: Kyle Jumme	11	Ľ	all: 4 mmers @ Ta	lon LPE. Co	19 11 11 12 12 12 12 12 12 12 12 12 12 12
Invoice to: (If different from above) BTA	Skip	Baca			m sta
Project #: 701165.002.01		Pro	ject Name: B		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Project Location (including state):		Sar	npler Signature:		/8260 / 1/ 200 / 1/ 200 / 1/ 200 / 1/ 200 / 1/ 200 / 1/ 200 / 1/ 200 / 1/ 200 / 1/ 200 / 1/ 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200 / 200
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LAB # FIELD CODE	# CONTAIN Volume / An	WATER SOIL AIR SLUDGE	HCI HNO ₃ H ₂ SO ₄ NaOH ICE NONE	DATE	MTBE 802 BTEX 8021 TPH 418.1 / TPH 418.1 / Total Metals A Total Metals A TCLP Netali TCLP Volatil TCLP Pestic RCI RCI CC/MS Serr GC/MS Serr Pesticides 8 BOD, TSS, I Molisture Co
22094 BH-E	1 402	X	X X	10/7/09 1540	
095 BH-H				10/8 1442	
096 BH-F				10/7 0907	
097 DH-D	JY	4	4	10/2 1423	
S. J. S. A. S. M. R. S. M.			-NFS		
			N.C.		
and final and an and a second se					
Relinguished by: Company: Date;	Time: 7 / III 7	Received by:	Company: Date: $1 \wedge 0  ( \circ \frac{1}{9} / 9 / 2)$		T LABUSE REMARKS: S 3.0°C ONLY ALL LONTS - Midlaud
Relinguished by: Company: Date:	Time: (	Received by:	Company: Date:	Time: INS OBS	
Relinquished by: Company: Date:	Time:	Received by:	Company: Date:	COF Time: INS OBS COF	C     C     Dry Weight Basis Required       T     TRRP Report Required       S     C     C       Liggin-Review     C     C       Liggin-Review     C     C       Liggin-Review     C     C       Liggin-Review     C     C
Submittal of samples constitutes agreement to Te	rms and Con ORI	ditions listed on re GINAL OOPY	verse side of C. O. C.		Carrier #_ COTIYIN

### **APPENDIX D**

### **PHOTOGRAPHIC DOCUMENTATION**

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Photograph No. 1

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

#### Photographic Documentation

Prepared by:Simon HudgensPhotographer:Simon HudgensProject Number:701165.002.01



Direction: Southeast

**Description:** View of initial excavation area.

Photograph No. 2

Direction: South

**Description:** View of initial excavation area.



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

#### Photographic Documentation

Prepared by:Simon HudgensPhotographer:Simon HudgensProject Number:701165.002.01



**Direction:** Northeast

Photograph No. 3

**Description:** View of excavation area.

#### Photograph No. 4

**Direction:** Northeast

**Description:** View of excavation area.



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

#### Photographic Documentation

Prepared by:Simon HudgensPhotographer:Simon HudgensProject Number:701165.002.01



**Direction:** East

Photograph No. 5

**Description:** View of excavation area.

Photograph No. 6

**Direction:** Northwest

**Description:** View of excavation area.



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

### Photographic Documentation

Prepared by:Simon HudgensPhotographer:Simon HudgensProject Number:701165.002.01



Direction: Northeast

Photograph No. 7

**Description:** View of excavation area.

#### Photograph No. 8

**Direction:** East

**Description:** View of backfilled area.



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

#### Photographic Documentation

Prepared by:Simon HudgensPhotographer:Simon HudgensProject Number:701165.002.01



Photograph No. 9

**Direction:** East

**Description:** View of backfilled area.

#### **APPENDIX E**

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### **Disposal Documentation**

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Disposal documentation/run tickets available in NMOCD hard copy files. MLB - NMOCD District 2

#### **APPENDIX F**

#### **NMOCD** Documentation

Initial C-141 Final C-141

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District I 1625 N French	Dr , Hobbs,	NM 88240		Si Enermy M	tate o	f New Mex		AU	G - 4 20	09	Damand	Form C-141	
1301 W Grand	Avenue, Art	esia, NM 88210	)	Energy Minerals and Natural Resources					-	Revised	March 17, 1999		
District III 1000 Rio Brazo	District III 000 Rio Brazos Road, Aztec, NM 87410			Oil Conservation Division						Distric	t Office	in accordance	
h <u>strict IV</u> 220 S St Francis Dr., Santa Fe, NM 87505			Santa Fe, NM 87505							with Rule 116 on bac side of form			
0:015-3	34621		Rel	ease Notifi	catio	on and Co	orrective A	Action	1	••••		·	
ncs 09223	40002					<b>OPERA</b>	TOR		🛛 Initi	al Report		Final Repo	
Name of Co	ompany	BTA Oil Pro	oducers I	LC 26029	7	Contact	Pam Insl	keep	3				
Address Facility Na	ne	104 S. Pecos, Midland, TX 79 Pardue B-, 8808 JV-P		d, TX 79701 7-P #76		Facility Type Well							
Surface Ow	ner	Mississippi	Potash	Mineral	Owner	Kirby Mine	rals, Teledyne	Indust.	Lease 1	No.[]			
				LOC	ATIC	DN OF REI	LEASE		-				
Unit Letter K	Section 11	Township 23S	Range 28E	Feet from the 1650	Nort Sout	h/South Line h	Feet from the 1850	East/ West	West Line	County[ Eddy	)		
	L	, ,	L	NA7		F OF PFL	FASE	.l		<u>i</u>			
Type of Rele	ase	Major				Volume of	Release 285 b	bls	Volume I	Recovered	] 0 bb	ols	
Source of Re	lease	Lightning Strike				Date and Hour of Occurrence			Date and	Date and Hour of Discovery			
Was Immedia	te Notice (	Given?				II pm CD		DT, 7/29/2009					
		X 🛛	es 🗆 1	vio 🔲 Not Requ	ured	Sherry Bonham, Artesia							
By Whom? [	]	Clay Tip	ton, Field	Supervisor		Date and Hour 11:30 pm CDT 7/29/2009							
Was a Water	course Rea	ched?	Yes 🛛	No		If YES, Volume Impacting the Watercourse.							
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	+									
N	<b>Λ</b>	-											
19/	~												
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.* (	Gary T	ucker, pumpe	r, and the Lovi	ng Fire	Departme	nt were b	oth call	ed by the	
landowner.	Upon arri	ving at the lo	ocation, t	he pumper foun	id the l	location engul	lfed in flames.	The fie	ld supervi	sor was in	nmedia	tely	
noumed. Or tank and one	e oll tank	had been str k was burne	uckano. dun. Ai	portion of the o	air and il store	d in a third ta	n production e	quipmei rred to e	nt on the s our Pardue	ne. All o D batter	ii in the V (verv i	affected close in	
proximity E	-11-23S-2	8E and prod	ucing fro	m the same rese	ervoir)	. The remain	der of the stock	c in the	third tank	was lost a	and dest	royed by	
the flames.	A vacuun	truck was b	rought ir	. Approximate	ly 200	bbls of produ	uced water was	recover	red and tal	ken to an	approve	d disposal.	
brought in, a	as soon as	weather peri duction equir	mits, to c	ontinue cleanup	or the b. All a No fu	affected area affected topso orther remedia	bil/caliche will	rewan. be remo uld be i	A backne	auled to a	in appro	oved	
Describe Are	A ffacted	and Cleanun	Action Tal										
See al		and Creanup 7	iction 1 ar										
. See al	ove explai												
I hereby certil regulations al	fy that the i	information gi are required to	ven above o report ar	is true and comp d/or file certain	olete to	the best of my notifications ar	knowledge and u	understau ctive act	nd that pur: ions for rel	suant to NM	AOCD n h may er	ules and Idanger	
public health	or the envi	ronment. The	acceptance	e of a C-141 rep	ort by t	he NMOCD m	arked as "Final F	leport" d	loes not rel	ieve the op	erator of	liability	
should their o or the environ	perations h ment. In a	ave failed to a ddition. NMO	dequately CD accen	investigate and r tance of a C-141	remedia renort (	ate contamination does not relieve	on that pose a the operator of	reat to gr	round water ibility for c	r, surface v omnliance	vater, hui with any	man health	
federal, state,	or local lav	ws and/or regu	lations.										
	1	An a					OIL CON	ISERV	ATION	DIVISI	<u>ON</u>		
Signature:	am	ANI						<i>I</i> .	Kenn				
Printed Name	· 1	am Inskeep				Approved by	District Superv	ISOT.	SPARIN	<u></u>			
Title:	R	egulatory Ad	ministrato	r		Approval Dat	AUG 1 0 20	09	Expiration	Date:			
Date: 7/3	0/2009		Phon	e: (432) 682-375	[. 53 <b>/</b>	condition of	f approval:			Attache	d 🔲		
Attach Addit	ional Shee	ets If Necessi	ary		-,  -	REMEDIATION per OCD Rules an				7 RP-214			
					G P	iuidelines. <u>S</u> ROPOSAL B	UBMIT REME	DIATIC	<u>NN</u>	Å	. / V <u>(</u> .	120	
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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

				Sa	ша г	e, INIVI 075	03						
Release Notification and Corrective Action													
						<b>OPERA</b>	ΓOR		🗌 Initia	al Report	$\boxtimes$	Final Report	
Name of Co	mpany	BTA Oil Pro	ducers L	LC		Contact	Pam Inske	eep					
Address		104 S. Pecos	, Midlan	i, TX 79701		Telephone 1	No. 🗆 (432) 682	-3753					
Facility NamePardue –B, 8808 JV-P						Facility Type Well							
Surface Owner Mississippi Potash Mineral Owner Kirby Minerals, Teledyne Indust. Lea							Lease N	lo. 🗆					
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North	N/South Line	Feet from the	East/	West Line	County□			
K	11	238	28E	1650	South	ı	1850	West		Eddy			
L	<b></b>	- <b>J</b>		NAT	URF	COF REL	EASE	1		<u> </u>			
Type of Relea	ase	Major				Volume of	Release 285 bb	ols	Volume F	Recovered	0 bł	ols	
Source of Release Lightning Strike						Date and F	lour of Occurrenc	Date and	Hour of Dis	scovery			
Was Immediate Notice Given?						11 pm CDT, 7/29/2009 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 Watero	course Rea	ched?	Ves 🕅	No		If YES, Volume Impacting the Watercourse.							
IC . Weters		L										<u> </u>	
If a Watercourse was Impacted, Describe Fully.*													
N	/A												
Describe Cau arriving at the l and had landed to our Pardue I by the flames. burned and/or e	se of Prob location, the on product D battery (ve A vacuum evaporated	lem and Remed pumper found to ion equipment or cry close in proxi- ruck was brough All of the affect	dial Action he location in the site A mity E-11- it in Appro- ed area is v	a Taken.* Ga engulfed in flames. All oil in the affected 23S-28E and produc oximately 200 bbls o outhin the firewall	The field The field I tank a tang fro f produ	ker, pumper, an eld supervisor w nd one other tan m the same rese iced water was r	d the Loving Fire D as immediately noti k was burned up A rvoir) The remaind ecovered and taken	epartme fied Or portior der of th to an ap	nt were both ne oil tank ha n of the oil sto e stock in the oproved dispo	called by the d been struck ored in a third third tank w sal The rem	landown and blo l tank wa as lost a ainder o	her Upon when into the air as transferred nd destroyed f the water	
After contracto removed and d BTEX and Chl representative of seed mixture re	rs removed isposed of a orides All of the Artes ecommenda	all damaged surf t an approved dis samples were for a OCD office inst tion	face equipn sposal facil und to be be spected the	ent, an environment ity Samples were co clow regulatory limi site during remediat	tal cont offected ts and t trion act	ractor was mobilified from the excavation with the excavation with the rem	lized to perform rer ation and were subr as backfilled with c ediation was compl	mediatio mitted to clean soi leted on	n activities at a laboratory l purchased fi 11/09/09. W	the site All and analyzed form a nearby e have been	impacte d for DR source* waiting :	ed soil was O, GRO, . A for the State	
There are no fu used to line the	arther remedence new batter	hation activities j y floor and berm	planned for s The poly	this site. A new bat -liner was draped ov	tery sit /er an e	e was constructe arthen berm and	ed just north of the of the of the of the of the of the overed with	original caliche	battery A su	ngle sheet of	20-mil p	oly-liner was	
* The site is no	ot seeded, to	date, as we have	e not receiv	ed the seed mixture	recomi	nended from the	e State.						
Describe Area	a Affected	and Cleanup A	Action Tak	en.*			<u> </u>						
See abo	ove explanat	ion											
I hereby certi regulations al public health should their o or the enviror federal, state,	fy that the l operators or the env operations ment. In or local la	information gi s are required to ironment. The have failed to a addition, NMO ws and/or regu	ven above o report ar acceptanc dequately OCD accep lations.	is true and compl d/or file certain re- e of a C-141 repo investigate and re- tance of a C-141 r	ete to elease rt by th emedia report	the best of my notifications a he NMOCD m ite contamination does not reliev	knowledge and u nd perform correct arked as "Final R ion that pose a thr re the operator of	indersta ctive ac leport" reat to g respons	and that purs tions for rel does not rel ground wate sibility for c	suant to NM eases which ieve the ope r, surface w ompliance	10CD 1 n may e erator o rater, hu with an	ules and ndanger f liability iman health y other	
						OIL CONSERVATION DIVISION							
Signature: UM MWW Cell													
Printed Name	:	Pam Inskeep				Approved by	District Superv	isor.					
Title:		Regulatory Ad	ministrato	r		Approval Da	te:		Expiration	Date.			
Date: 02	/03/2010		Pho	ne. (432) 682-37	53	Conditions o	f Approval:			Attache	d 🗌		