District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artiesa, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 875(

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1120 South St. Francis Dr.
Santa Fe, NM 97505

Form C-141
Revised October 10, 2003

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

Relaese Notification and Corrective Action

OPERATOR

☐ Initial Report ☑ Final Report

Name of Company	Apache Corporation	Contact	Guinn Burks
Address	P. O. Box 728, Crane,TX 79731	Telephone No.	432-556-9143
Facility Name	Elliot Federal Btty	Facility Type	Tank Battery

Surface Owner	NM State	Mineral Owner	BLM	API #	30-025-06332

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	1	21S	37E					

Latitude _____ **Longitude** _____

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Source of Release	Daste/Hour of Occurrence	Date /Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If Yes, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, describe Fully*

NA

Describe Cause of Problem and Remedial Action Taken.*

Notice of Closure

Describe Area Affected and Cleanup Action Taken.*

This battery site has been completely remediated and restored to natural conditions and reseeded with SLO requirements.

I herby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform correc

Signature: Guinn Burks	Oil Conservation Division	
Printed Name: Guinn Burks	Approved by the District Supervisor: ENVIRONMENTAL ENGINEER	
Title: Permian Environmental Coordinator	Approval Date 4.25.08	Expiration Date: —
Email Address: guinn.burks@usa.apachecorp.com	Conditions of Approval:	Attached IRP# 1423
Date: 7/18/2007 Phone: 432-556-9143		

*Attach Additional Sheets if Necessary

SITE CLOSURE REPORT

ELLIOTT FEDERAL LEASE
FORMER TANK BATTERY
Northeast of Eunice, New Mexico
Lea County, New Mexico
RP # 1423

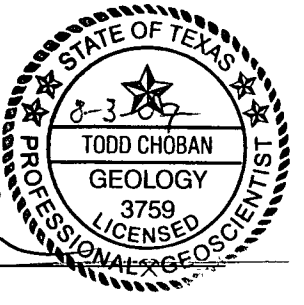
Prepared for:

APACHE CORPORATION
P.O. Box 728
Crane, Texas 79731

Prepared by:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

July 2007



Ronald K. Rounsaville
Project Manager

Todd Choban, P.G.
Vice – President, Technical Services

F

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

NOVA Safety and Environmental (NOVA) is pleased to submit to Apache Corporation (Apache) this Site Closure Report for the former Apache Elliott Federal Lease Tank Battery Site. The site is located approximately 7 miles northeast of Eunice, Lea County, New Mexico. The site is located in the southwest quarter of Section 1, Township 21 South, Range 37 East. A Site Location Map is provided as Figure 1.

On January 5, 2007, Apache submitted a Release Notification and Corrective Action (Form C-141) reporting a 388 barrel crude oil release with 257 barrels recovered, resulting in a net loss of 131 barrels. Soil was placed on the spilled crude to absorb the fluids prior to commencing remediation activities.

Apache reported their decision to remove the tank battery out of service to the New Mexico Oil Conservation Division (NMOCD) on May 11, 2007 and submitted a Release Notification and Corrective Action Report (NMOCD Form C-141) to the NMOCD, District I office located in Hobbs, New Mexico on May 11, 2007. The NMOCD Release Notification and Corrective Action Report Form C-141 is provided in Appendix C.

Apache completed the removal of all battery equipment and NOVA began remediation of the Elliott Federal Lease Tank Battery site on May 22, 2007. This report summarizes remediation and confirmation sampling activities conducted to demonstrate compliance with NMOCD site closure standards.

2.0 NMOCD - SITE CLASSIFICATION

Based on information provided by Larry Johnson of the NMOCD Hobbs District I office, the Apache release site is located in a region where groundwater is present at a depth of between 50 and 99 feet below ground surface (bgs). Based on NMOCD site ranking criteria the site would consequently have a ranking score of 10-19 points. The soil action levels for a site with this score, as determined by the *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993), are as follows: Benzene=10 mg/Kg, BTEX=50 mg/Kg and TPH=1,000 mg/Kg. Consequently, assessment and clean up concentrations for regulatory compliance were performed to these action levels at the Elliott Federal Lease Tank Battery Release Site.

3.0 SUMMARY OF FIELD ACTIVITIES

3.1 Excavation Activities – Tank Battery

Upon Apache completing tank abandonment activities, NOVA mobilized equipment to the site on May 22, 2007 to begin assessment and remedial activities. Inspection of the area surrounding the battery site revealed evidence of hydrocarbon impact within the secondary containment area of the battery and areas of asphaltene impacted soil located west of the battery. Impacted soil removal activities began by excavating impacted soil located within the limits of the battery containment area, measuring approximately 100 feet by 75 feet, to a depth of approximately 6 feet below ground

surface (bgs) to determine vertical delineation. Samples were collected at depths of 10 and 12 feet bgs. Confirmation soil samples collected from the floor and walls of the excavation were submitted for laboratory analysis of Total Petroleum Hydrocarbons (TPH), Method 8015M (DRO/GRO), benzene, toluene, ethyl-benzene, and xylenes (BTEX, Method 8021B) and Chlorides, Method SM 4500.

3.2 Excavation Activities – Asphaltene Impacted Soil

Excavation activities continued on asphaltene impacted soils located west of the tank battery area. Impacted soil was removed from an area measuring approximately 60 feet in length by 45 feet wide and approximately 15 feet in depth. Confirmation soil samples collected from the floor and walls of the excavation were submitted for laboratory analysis of TPH, Method 8015M (DRO/GRO), benzene, toluene, ethyl-benzene, and xylenes (BTEX, Method 8021) and Chlorides, Method SM 4500).

Based on visual and olfactory observations, excavation activities were finalized pending the analytical results of laboratory submitted confirmation soil samples collected at locations within the excavation areas. The tank battery excavation area measured approximately 120 feet in length by 100 feet in width and averaged approximately 12 feet in depth. The asphaltene excavation area measured approximately 100 feet in length by 75 feet in width and averaged approximately 15 feet in depth. Figure 2 is a site details map illustrating the former tank battery and asphaltene excavation areas, soil sample locations and other site details.

As a result of excavation activities, an estimated 5,500 cubic yards of impacted soil was brought to the surface and transported to the Sundance Services Landfill (Sundance), NM Permit # NM-01-0003, for disposal. Non-impacted caliche soil was transported to the site from a clean borrow source and used to backfill the excavation areas.

3.3 Confirmation Soil Samples and Results

On May 23 through May 31, 2007, upon completing excavation activities, confirmation soil samples were collected from the floor and sidewalls of each of the excavation areas. Table 1 presents the analytical results of the confirmation soil samples.

Confirmation samples were submitted for laboratory analysis for Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M (DRO/GRO) modified and benzene, toluene, ethyl-benzene, and xylenes (BTEX) by EPA Method 8021b. Laboratory submitted samples were placed in 4-ounce glass containers supplied by the laboratory. The container was filled to capacity to limit headspace and sealed with a plastic teflon lined lid. Each container was labeled and placed on ice in an insulated cooler and transported to TraceAnalysis, located in Midland Texas. Proper chain-of-custody documentation was maintained throughout the sampling process.

For reference, Figure 2 displays the locations of all soil samples analyzed and Table 1 presents the analytical results of soil samples. The laboratory analytical reports are provided in Appendix A.

3.3.1 Analytical Results - Former Tank Battery Excavation

On May 23, 2007, four confirmation soil samples were collected from each quadrant of the tank battery excavation area floor at a depth of 10.0 feet bgs (NWFLR-10', NEFLR-10', SWFLR-10', and SEFLR-10') along with soil samples collected from each sidewall (NWall-3', SWall-3', WWall-3' and EWall-3') of the excavation area (Figure 2). The laboratory analytical results confirmed TPH (DRO & GRO) concentrations in two of the four floor soil samples exceeded the NMOCD guidelines of 1,000 mg/Kg. The two soil sample collected from the northeast and southeast quadrants of the excavation floor exhibited total TPH (DRO & GRO) concentrations of 6,780 mg/Kg and 5,190 mg/Kg, respectively. The analytical results indicated BTEX constituent concentrations were below applicable NMOCD guidelines ranging from below method detection limits of <0.01 mg/Kg to 0.0341 mg/Kg (xylene). One sample analyzed for Chlorides indicated a maximum concentration of 442 mg/Kg.

On May 30, 2007, upon review of the all analytical results, NOVA, as directed by Apache, excavated an additional 2 feet of impacted soil from the tank battery floor. Two additional confirmation samples were collected from the northeast and southeast quadrants of the floor at a depth of 12 feet bgs and submitted for laboratory analysis of TPH (DRO & GRO) and Chlorides. Analytical results on the samples collected at the 12-foot interval indicated TPH and chlorides concentrations were below the NMOCD regulatory levels of 1,000 mg/Kg for TPH and 250 mg/Kg for chlorides.

3.3.2 Analytical Results - Asphaltene Excavation

On May 24, 25, and 31, 2007, four confirmation soil samples (AS-1, AS-4, AS-5, AS-6) were collected from the floor of the asphaltene excavation area at depths ranging from 1 foot to 15 feet bgs along with four sidewall samples. The laboratory analytical results confirmed one floor sample, identified as AS-5, 15', exhibited a TPH (DRO & GRO) concentration of 1,242 mg/Kg, exceeding the NMOCD guidelines of 1,000 mg/Kg. Analytical results on the four sidewall samples indicated TPH, BTEX and Chlorides concentrations were below NMOCD regulatory guidelines. The impacted soil within the asphaltene excavation area represented by sample AS-6, 8' was brought to the surface and subsequently added to the soil transported to the landfill for disposal.

Apache provided the laboratory analytical data to the NMOCD District Office via telephone conversation and requested the NMOCD grant permission to backfill the excavation areas with non-impacted soil transported to the site from a clean borrow area and restore site conditions. The request was verbally granted on May 31, 2007 by Mr. Larry Johnson of the NMOCD office in Hobbs. Mr. Johnson indicated he would allow the TPH concentration level of 1,242 mg/Kg from the asphaltene floor sample, AS-5, 15', to remain in place due to low chloride concentration levels in the soil. NOVA completed site restoration activities on June 11, 2007.

4.0 CONCLUSIONS & CLOSURE REQUEST

Based on the analytical results of laboratory confirmation soil samples, the horizontal and vertical extent of impacted soil has been remediated to below applicable site specific NMOCD regulatory guidelines (as set forth by *The Guidelines for Remediation of Leaks, Spills and Releases*, NMOCD, 1993) for soil concentrations of Chlorides, BTEX and TPH guidelines of 1,000 mg/Kg. The excavation was backfilled with non-impacted soil imported from a clean borrow area and impacted soil brought to surface was transported to a landfill for disposal.

Consequently, no further action is recommended or planned for the site and Apache Corporation respectfully requests the NMOCD grant closure to the former Apache Elliott Federal Tank Battery.

5.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

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

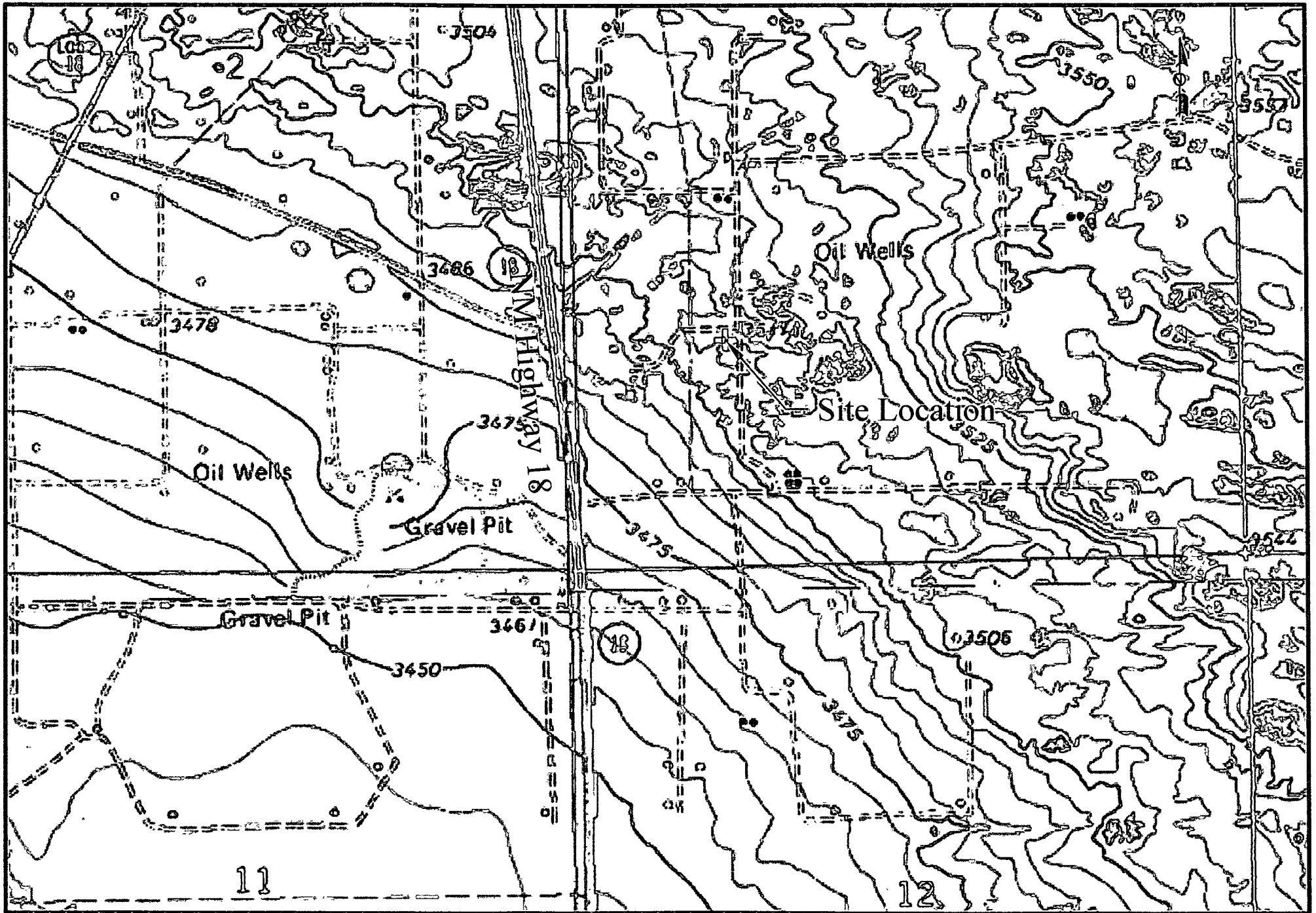
This report has been prepared for the benefit of Apache Corporation. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA Safety and Environmental and/or Apache Corporation.

6.0 DISTRIBUTION

Apache Corporation
Elliott Federal Lease Tank Battery
Site Closure Report

Copy 1, 2 to:	Mr. Larry Johnson; Mrs. Pat Richards New Mexico Energy, Minerals and Natural Resources Oil Conservation Division, District I 1625 N. French Dr. Hobbs, New Mexico 88240
Copy 3 to:	Trishia Bad Bear Bureau of Land Management Natural Resource Specialist 414 West Taylor Hobbs, New Mexico 8824079731
Copy 4 to:	Guinn Burks Apache Corporation P.O. box 728 Crane, Texas 79731
Copy 5 to:	NOVA Safety and Environmental 2057 Commerce Midland, Texas 79703 rrounsaville@novatraining.cc

FIGURES



LEGEND:

USGS Hobbs SE (TX,NM) Topo Map

1000 500 0 500 1000

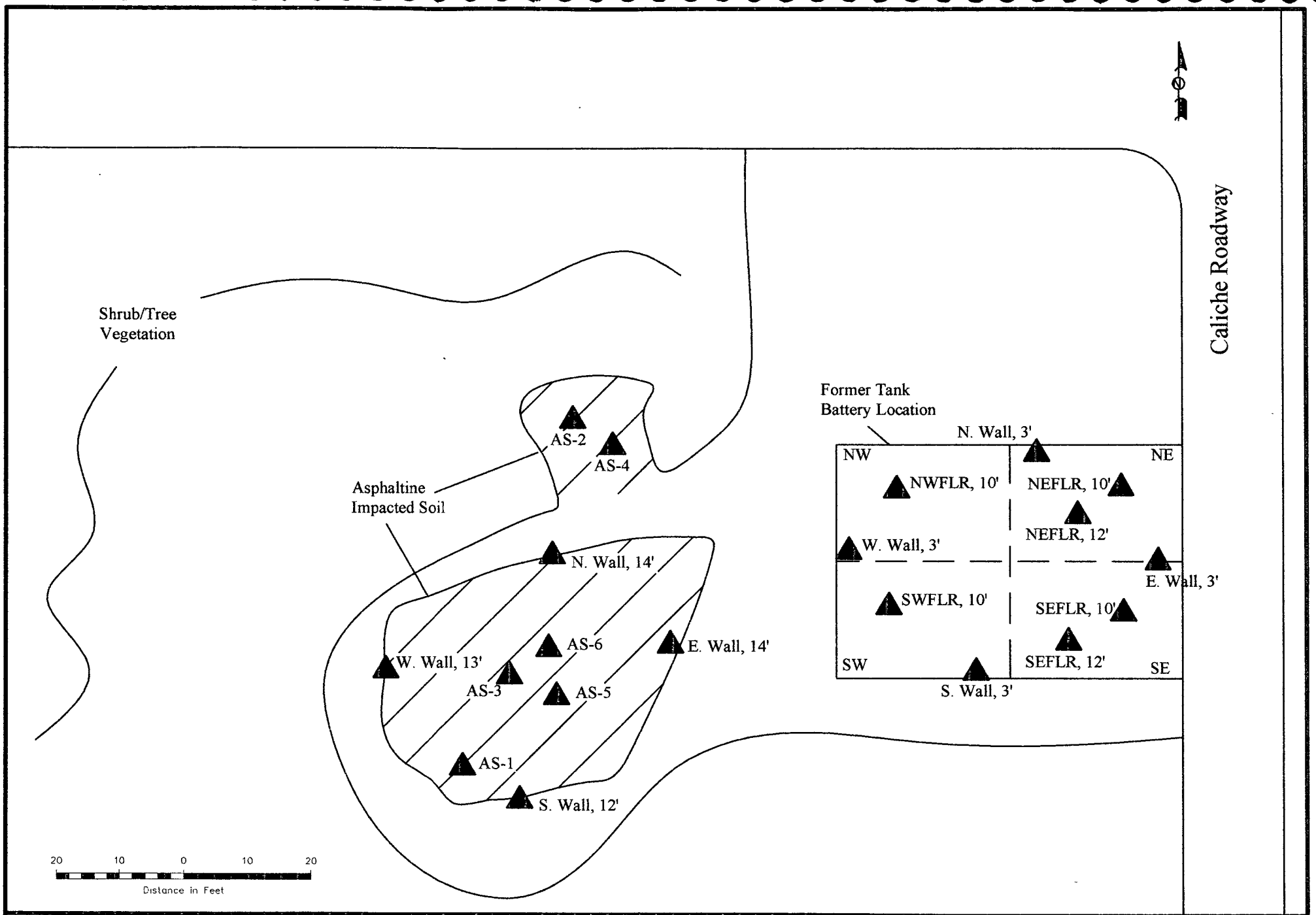
Distance in Feet

Figure 1
Site Location Map

Apache Corporation
Elliot Federal Release
Lea County, New Mexico

NOVA Safety and Environmental

NOVA safety and environmental	Scale 1" = 1000'	CAD by DGC | Checked By RKR
	June 20, 2007	N 32° 30' 20.05" W 102° 07' 16.78"



LEGEND:

▲ Confirmation Soil Sample Locations

Figure 2
Site Details Map with Confirmation Sample Locations
Apache Corporation
Elliot Federal Lease
Lea County, New Mexico

NOVA Safety and Environmental

NOVA safety and environmental	Scale 1" = 20'	CAD by DGC / Checked By: RKR
	June 20, 2007	N 32° 30' 20.05" W 103° 07' 16.78"

TABLES

TABLE 1

Analytical Results - Confirmation Soil Samples
Elliott Federal Lease Tank Battery
Apache Corporation
Eunice, Lea County, New Mexico

			Laboratory Analyzed By Method 8015			Method SM 4500	Laboratory Analyzed by Method 8021				
SAMPLE DATE	SAMPLE IDENTIFICATION	DEPTH	TPH DRO mg/Kg	TPH GRO mg/Kg	Total TPH	Chlorides mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl-Benzene mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg
NMOCD Remediation Action Levels (ppm)					**1,000**	**250**	**10**				**50**
Tank Battery Excavation Area											
05/23/07	SWALL, 3'	3 ft.	<50.0	2	2.49	na	na	na	na	na	--
05/23/07	NWALL, 3'	3 ft.	52	3	54.29	na	<0.01	<0.01	<0.01	0.0341	0.0341
05/23/07	EWALL, 3'	3 ft.	<50.0	<1.00	<50	na	na	na	na	na	--
05/23/07	WWALL,3'	3 ft.	<50.0	<1.00	<50	na	na	na	na	na	--
05/23/07	NWFLR, 10'	10 ft.	<50.0	1.76	1.76	na	na	na	na	na	--
05/23/07	SWFLR, 10'	10 ft.	<50.0	<1.00	<50	**442**	na	na	na	na	--
05/23/07	NEFLR, 10'	10 ft.	**6,780**	<1.00	**6,780**	na	na	na	na	na	--
05/23/07	SEFLR, 10'	10 ft.	**5,190**	<1.00	**5,190**	na	na	na	na	na	--
05/30/07	NE FLR-12'	12 ft.	<50.0	<1.00	<50	59.3	na	na	na	na	--
05/30/07	SE FLR-12'	12 ft.	<50.0	<1.00	<50	84	na	na	na	na	--
Asphaltene Excavation Area											
05/24/07	AS-1, 3'	3 ft.	<50.0	1.6	1.6	16.5	na	na	na	na	--
05/24/07	AS-4, 1'	1 ft.	<50.0	1.02	1.02	15	na	na	na	na	--
05/24/07	AS-5, 15'	15 ft.	**1,190**	**52**	**1,242**	86	na	na	na	na	--
05/24/07	AS-6, 8'	8 ft.	**2,680**	**213**	**2,893**	13	<0.01	<0.01	0.557	1.01	1.567
05/25/07	N. Wall, 14'	14 ft.	556	1.12	557	na	na	na	na	na	--
05/25/07	W. Wall, 13'	13 ft.	<50.0	1.11	1.11	na	na	na	na	na	--
05/25/07	S. Wall, 12'	12 ft.	<50.0	<1.00	<50	na	na	na	na	na	--
05/31/07	E. Wall	14 ft.	<50	10.1	10.1	170	na	na	na	na	--
05/31/07	Backfill-1	--	<50	3.09	3.09	121	na	na	na	na	--
05/31/07	Backfill-2	--	<50	1.82	1.82	84	na	na	na	na	--

Bold: Indicates TPH concentration above regulatory guidelines
na = not analyzed

APPENDICES

APPENDIX A:
Laboratory Analytical Reports

Summary Report

Jennifer Lange
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 31, 2007

Work Order: 7052410

Project Location: 5 miles NE of Eunice, N.M.
Project Name. Apache Elliot Federal

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125211	SWALL, 3'	soil	2007-05-23	13:55	2007-05-24
125212	NWALL, 3'	soil	2007-05-23	14:15	2007-05-24
125213	EWALL, 3'	soil	2007-05-23	14:35	2007-05-24
125214	WWALL, 3'	soil	2007-05-23	14:23	2007-05-24
125219	SWFLR, 10'	soil	2007-05-23	15:10	2007-05-24
125221	NEFLR, 10'	soil	2007-05-23	15:30	2007-05-24
125223	SEFLR, 10'	soil	2007-05-23	15:48	2007-05-24
125225	NWFLR, 10'	soil	2007-05-23	16:00	2007-05-24

	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
125211 - SWALL, 3'						<50.0	**2.49**
125212 - NWALL, 3'	<0.0100	<0.0100	<0.0100	**0.0341**		**51.6**	**2.69**
125213 - EWALL, 3'						<50.0	<1.00
125214 - WWALL, 3'						<50.0	<1.00
125219 - SWFLR, 10'						<50.0	<1.00
125221 - NEFLR, 10'						**6780**	<1.00
125223 - SEFLR, 10'						**5190**	<1.00
125225 - NWFLR, 10'						<50.0	**1.76**

Sample: 125219 - SWFLR, 10'

Param	Flag	Result	Units	RL
Chloride		**442**	mg/Kg	1.00

Inv# 6407

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
E-Mail. lab@traceanalysis.com

Analytical and Quality Control Report

Jennifer Lange
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 31, 2007

Work Order: 7052410

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal
Project Number: Apache Elliot Federal

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125211	SWALL, 3'	soil	2007-05-23	13:55	2007-05-24
125212	NWALL, 3'	soil	2007-05-23	14:15	2007-05-24
125213	EWALL, 3'	soil	2007-05-23	14:35	2007-05-24
125214	WWALL, 3'	soil	2007-05-23	14:23	2007-05-24
125219	SWFLR, 10'	soil	2007-05-23	15:10	2007-05-24
125221	NEFLR, 10'	soil	2007-05-23	15:30	2007-05-24
125223	SEFLR, 10'	soil	2007-05-23	15:48	2007-05-24
125225	NWFLR, 10'	soil	2007-05-23	16:00	2007-05-24

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

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Apache Elliot Federal were received by TraceAnalysis, Inc. on 2007-05-24 and assigned to work order 7052410. Samples for work order 7052410 were received intact at a temperature of 4 deg C.

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

Test	Method
BTEX	S 8021B
Chloride (IC)	E 300.0
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7052410 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: 125211 - SWALL, 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		187	mg/Kg	1	150	125	32.9 - 167

Sample: 125211 - SWALL, 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**2.49**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.756	mg/Kg	1	1.00	76	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.17	mg/Kg	1	1.00	117	67.5 - 140.3

Sample: 125212 - NWALL, 3'

Analysis	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37641	Date Analyzed:	2007-05-29	Analyzed By:	AG
Prep Batch:	32617	Sample Preparation:	2007-05-29	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		<0.0100		mg/Kg	1	0.0100
Ethylbenzene		<0.0100		mg/Kg	1	0.0100
Xylene		**0.0341**		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	51.1 - 119.1

Sample: 125212 - NWALL, 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO	B	**51.6**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	32.9 - 167

Sample: 125212 - NWALL, 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**2.69**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.764	mg/Kg	1	1.00	76	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	67.5 - 140.3

Sample: 125213 - EWALL, 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		213	mg/Kg	1	150	142	32.9 - 167

Sample: 125213 - EWALL, 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.762	mg/Kg	1	1.00	76	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	67.5 - 140.3

Sample: 125214 - WWALL, 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		211	mg/Kg	1	150	141	32.9 - 167

Sample: 125214 - WWALL, 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.758	mg/Kg	1	1.00	76	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	67.5 - 140.3

Sample: 125219 - SWFLR, 10'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37508	Date Analyzed:	2007-05-24	Analyzed By:	AR
Prep Batch:	32525	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**442**	mg/Kg	10	1.00

Sample: 125219 - SWFLR, 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		226	mg/Kg	1	150	151	32.9 - 167

Sample: 125219 - SWFLR, 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.764	mg/Kg	1	1.00	76	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	67.5 - 140.3

Sample: 125221 - NEFLR, 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**6780**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	313	mg/Kg	5	150	209	32.9 - 167

Sample: 125221 - NEFLR, 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

[1] High surrogate recovery due to peak interference

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.774	mg/Kg	1	1.00	77	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	67.5 - 140.3

Sample: 125223 - SEFLR, 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**5190**	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[2]	261	mg/Kg	5	150	174	32.9 - 167

Sample: 125223 - SEFLR, 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.768	mg/Kg	1	1.00	77	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	67.5 - 140.3

Sample: 125225 - NWFLR, 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

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

[2]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		239	mg/Kg	1	150	159	32.9 - 167

Sample: 125225 - NWFLR, 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.76**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.766	mg/Kg	1	1.00	77	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	67.5 - 140.3

Method Blank (1) QC Batch: 37504

QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	QC Preparation:	2007-05-24	Prepared By:	MS

Parameter	Flag	MDL Result	Units	RL
DRO		29.5	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		174	mg/Kg	1	150	116	44.7 - 133.6

Method Blank (1) QC Batch: 37507

QC Batch:	37507	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32524	QC Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.851	mg/Kg	1	1.00	85	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.894	mg/Kg	1	1.00	89	67.5 - 140.3

Matrix Blank (1) QC Batch: 37508

QC Batch: 37508 | Date Analyzed: 2007-05-24 | Analyzed By: AR
Prep Batch: 32525 | QC Preparation: 2007-05-24 | Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		3.25	mg/Kg	1

Method Blank (1) QC Batch: 37641

QC Batch: 37641 | Date Analyzed: 2007-05-29 | Analyzed By: AG
Prep Batch: 32617 | QC Preparation: 2007-05-29 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.09	mg/Kg	1	1.00	109	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.940	mg/Kg	1	1.00	94	53.9 - 125.1

Laboratory Control Spike (LCS-1)

QC Batch: 37504 | Date Analyzed: 2007-05-24 | Analyzed By: AG
Prep Batch: 32522 | QC Preparation: 2007-05-24 | Prepared By: MS

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit
DRO	263	mg/Kg	1	250	<14.6	105	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	251	mg/Kg	1	250	<14.6	100	47.5 - 144.1	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	177	170	mg/Kg	1	150	118	113	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch 37507 | Date Analyzed: 2007-05-24 | Analyzed By: AG
Prep Batch: 32524 | QC Preparation: 2007-05-24 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit
GRO	7.94	mg/Kg	1	10.0	<0.739	79	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.78	mg/Kg	1	10.0	<0.739	88	57.7 - 102.5	10	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec	Rec Limit
Trifluorotoluene (TFT)	1.10	1.05	mg/Kg	1	1.00	110	105	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.979	1.04	mg/Kg	1	1.00	98	104	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 37508 | Date Analyzed: 2007-05-24 | Analyzed By: AR
Prep Batch: 32525 | QC Preparation: 2007-05-24 | Prepared By: AR

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit
Chloride	15.2	mg/Kg	1	12.5	2.1044	105	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	15.2	mg/Kg	1	12.5	2.1044	104	90 - 110	0	

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: 37641 | Date Analyzed: 2007-05-29 | Analyzed By: AG
Prep Batch: 32617 | QC Preparation· 2007-05-29 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.03	mg/Kg	1	1.00	<0.00110	103	68.6 - 123.4
Toluene	1.03	mg/Kg	1	1.00	<0.00150	103	74.6 - 119.3
Ethylbenzene	1.02	mg/Kg	1	1.00	<0.00160	102	72.3 - 126.2
Xylene	3.08	mg/Kg	1	3.00	<0.00410	103	76.5 - 121.6

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

Param	LCSD Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec. Limit	RPD	RPD Limit
Benzene	1.06	mg/Kg	1	1.00	<0.00110	106	68.6 - 123.4	3	20
Toluene	1.06	mg/Kg	1	1.00	<0.00150	106	74.6 - 119.3	3	20
Ethylbenzene	1.05	mg/Kg	1	1.00	<0.00160	105	72.3 - 126.2	3	20
Xylene	3.15	mg/Kg	1	3.00	<0.00410	105	76.5 - 121.6	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.930	0.956	mg/Kg	1	1.00	93	96	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	1.02	1.01	mg/Kg	1	1.00	102	101	68.7 - 125.8

Matrix Spike (MS-1) Spiked Sample: 125245

QC Batch: 37504 | Date Analyzed: 2007-05-24 | Analyzed By: AG
Prep Batch: 32522 | QC Preparation: 2007-05-24 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit
DRO	290	mg/Kg	1	250	<14.6	116	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit	RPD	RPD Limit
DRO	284	mg/Kg	1	250	<14.6	114	11.7 - 152.3	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec	Rec. Limit
n-Triacontane	222	216	mg/Kg	1	150	148	144	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 125212

QC Batch. 37507 | Date Analyzed· 2007-05-24 | Analyzed By· AG
Prep Batch: 32524 | QC Preparation: 2007-05-24 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec Limit
GRO	7.60	mg/Kg	1	10.0	2.69	49	10 - 141.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.25	mg/Kg	1	10.0	2.69	66	10 - 141.5	20	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.651	0.623	mg/Kg	1	1	65	62	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.18	1.11	mg/Kg	1	1	118	111	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 125219

QC Batch· 37508 | Date Analyzed: 2007-05-24 | Analyzed By· AR
Prep Batch: 32525 | QC Preparation: 2007-05-24 | Prepared By: AR

Param	MS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	580	mg/Kg	10	125	442.398	110	90 - 110

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	561	mg/Kg	10	125	442.398	95	90 - 110	3	

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

Matrix Spike (MS-1) Spiked Sample: 125212

QC Batch: 37641 | Date Analyzed: 2007-05-29 | Analyzed By: AG
Prep Batch: 32617 | QC Preparation: 2007-05-29 | Prepared By: AG

Param	MS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.06	mg/Kg	1	1.00	<0.00110	106	64.4 - 115.7
Toluene	1.07	mg/Kg	1	1.00	<0.00150	107	57.8 - 124.4
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.00160	110	64.8 - 125.8
Xylene	3.32	mg/Kg	1	3.00	0.0341	110	65.2 - 121.8

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.02	mg/Kg	1	1.00	<0.00110	102	64.4 - 115.7	4	20
Toluene	1.05	mg/Kg	1	1.00	<0.00150	105	57.8 - 124.4	2	20
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.00160	110	64.8 - 125.8	0	20
Xylene	3.30	mg/Kg	1	3.00	0.0341	109	65.2 - 121.8	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.952	0.933	mg/Kg	1	1	95	93	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	1.06	1.07	mg/Kg	1	1	106	107	66.7 - 131.9

Standard (ICV-1)

QC Batch: 37504 | Date Analyzed: 2007-05-24 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2007-05-24

Standard (CCV-1)

QC Batch: 37504 | Date Analyzed: 2007-05-24 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	253	101	85 - 115	2007-05-24

Standard (ICV-1)

QC Batch: 37507 Date Analyzed: 2007-05-24 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.920	92	85 - 115	2007-05-24

Standard (CCV-1)

QC Batch: 37507 Date Analyzed: 2007-05-24 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2007-05-24

Standard (ICV-1)

QC Batch: 37508 Date Analyzed: 2007-05-24 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.6	101	90 - 110	2007-05-24

Standard (CCV-1)

QC Batch: 37508 Date Analyzed: 2007-05-24 Analyzed By: AR

Param	Flag	Units	CCVs True Conc	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.4	99	90 - 110	2007-05-24

Standard (ICV-1)

QC Batch: 37641 Date Analyzed: 2007-05-29 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.101	101	85 - 115	2007-05-29
Toluene		mg/Kg	0.100	0.102	102	85 - 115	2007-05-29
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2007-05-29

continued ...

standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/Kg	0.300	0.312	104	85 - 115	2007-05-29

Standard (CCV-1)

QC Batch: 37641 Date Analyzed: 2007-05-29 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	85 - 115	2007-05-29
Toluene		mg/Kg	0.100	0.104	104	85 - 115	2007-05-29
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2007-05-29
Xylene		mg/Kg	0.300	0.310	103	85 - 115	2007-05-29

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CHAIN-OF-CUSTODY and ANALYSIS REQUEST
Lab Order ID#: 1052410

Contact: Skip Baca	Phone: (432) 425-8329	Project #:
Company Name: NOVA Env	Fax #: (432) 520-7701	Project Name: Apache Elliott Federal
Address: 2057 Commerce Dr Midland, Tx	Email:	Project Location: 5miles NE of Eunice, N. Mex
Invoice to:	Sampler: Skip Baca	Sampler Signature: Skip Baca

Turnaround Time (Business Days): ☑ Normal ☐ 24 Hour ☐ 2 Days ☐ 3 Days ☐ Other

Reporting Limits: ☑ Normal ☐ MDL ☐ MQL ☐ PQL ☐ Special

Lab ID (Lab Use Only)	Field Code	Matrix	Date/Time	# Containers	Preservatives: HCl	HNO3	H2SO4	NaOH	Ice	None	MTBE 8021B	BTEX 8021B	TX1005 Ext	TPH 418.1	PAH 8270C	Total (Ag,As,Ba,Cd)	Total (Cr,Pb,Se,Hg)	TCLP (Ag,As,Ba,Cd)	TCLP (Cr,Pb,Se,Hg)	TCLP Volatiles	TCLP Semi-Vols	TCLP Pesticides	RCI	GCMS Volatiles 8260B	GCMS Semi-Vols 8270C	PCB	Pesticides 8081	BOD, TSS, pH	Chlorides	GRO DRO 8015M			Hold
125207	NWFLR-1	Soil	5/23 4:05	1					X																								X
08	SWFLR-1		4:10	1																													X
09	EWFLR-1		4:15	1																													X
10	SWFLR-1		4:19	1																													X
11	SWall, 3'	Soil	1:55p	1																											X		
12	NWall, 3'		2:15p	1																											X		
13	EWall, 3'		2:35p	1																											X		
14	WWall, 3'		2:23p	1																											X		
15	SWFLR, 6'		2:00p																														X
16	NWFLR, 6'		2:08p																														X
17	NEFLR, 6		2:41p																														X
18	SEFLR, 6		2:45p																														X

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Skip Baca	5-24	9:30	Todd Luke	5-24	9:30
Todd Luke	5-24	10:15	ARoss	5-24-07	1015
Relinquished by:	Date:	Time:	Received at Lab by:	Date:	Time:

LAB USE ONLY
Intact: Y
Headspace: N
Temp: 4
Login Review:

REMARKS:
BTEX on high GRO (8021B) on FLR sample
all tests - midland

Page 1 of 2

Carrier #:

Submittal of samples constitutes agreement to Terms and Conditions on this COC.

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TraceAnalysis, Inc.

155 McCutcheon, Suite H
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1-888-588-3443

CHAIN-OF-CUSTODY and ANALYSIS REQUEST
Lab Order ID#: 1052410

Contact: Skip Baca	Phone: ~~(432) 557-1895~~ (432) 425-8329	Project #:
Company Name: NOVA ENV.	Fax #: (432) 520-7701	Project Name: Apache Elliott Federal
Address: 2057 Commerce	Email:	Project Location: 5 miles NE of Eunice, N. Mex
Invoice to:	Sampler: Skip Baca	Sampler Signature: Skip Baca

Turnaround Time (Business Days): [x] Normal [ ] 24 Hour [ ] 2 Days [ ] 3 Days [ ] Other

Reporting Limits: [x] Normal [ ] MDL [ ] MQL [ ] PQL [ ] Special

Lab ID (Lab Use Only)	Field Code	Matrix	Date/Time	# Containers	Preservatives: HCl	HNO3	H2SO4	NaOH	Ice	None	MTBE 8021B	BTEX 8021B	TX1005 Ext	TPH 418.1	PAH 8270C	Total (Ag,As,Ba,Cd)	Total (Cr,Pb,Se,Hg)	TCLP (Ag,As,Ba,Cd)	TCLP (Cr,Pb,Se,Hg)	TCLP Volatiles	TCLP Semi-Vols	TCLP Pesticides	RCI	GCMS Volatiles 8260B	GCMS Semi-Vols 8270C	PCB	Pesticides 8081	BOD, TSS, pH	GRO DRO 8015	Chloride				Hold
125219	SW FLR, 10'	Soil	5/23 3:10	1					X																				X	X				
20	SW FLR, 14'		3:20																										X					X
21	NE FLR, 10'		3:30																										X					
22	NE FLR, 14'		3:42																															X
23	SE FLR, 10		3:48																										X					
24	SE FLR, 14		3:50																															X
25	NW FLR, 10		4:00																										X					
26	NW FLR, 14		4:03																															X

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Skip Baca	5-24-07	1030	Todd Hall	5-24	1030
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Todd Hall	5-24	1115	ARoss	5.24.07	1015
Relinquished by:	Date:	Time:	Received at Lab by:	Date:	Time:

LAB USE ONLY
Intact: Y
Headspace: N
Temp: 4
Login Review:

REMARKS:
BTEX on the highest GRO (8021B) on FLR sample
all tests - Midland
page 2 of 2

Carrier #:

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CHAIN-OF-CUSTODY and ANALYSIS REQUEST
Lab Order ID#: 1052410

Contact: Skip Baca	Phone: (432) 425-8329	Project #:
Company Name: NOVA Env	Fax #: (432) 520-7701	Project Name: Apache Elliott Federal
Address: 2057 Commerce Dr Midland, Tx	Email:	Project Location: 5miles NE of Eunice, N. Mex
Invoice to:	Sampler: Skip Baca	Sampler Signature: Skip Baca

Turnaround Time (Business Days): ☑ Normal ☐ 24 Hour ☐ 2 Days ☐ 3 Days ☐ Other

Reporting Limits: ☑ Normal ☐ MDL ☐ MQL ☐ PQL ☐ Special

Lab ID (Lab Use Only)	Field Code	Matrix	Date/Time	# Containers	Preservatives: HCl	HNO3	H2SO4	NaOH	Ice	None	MTBE 8021B	BTEX 8021B	TX1005 Ext	TPH 418.1	PAH 8270C	Total (Ag,As,Ba,Cd)	Total (Cr,Pb,Se,Hg)	TCLP (Ag,As,Ba,Cd)	TCLP (Cr,Pb,Se,Hg)	TCLP Volatiles	TCLP Semi-Vols	TCLP Pesticides	RCI	GCMS Volatiles 8260B	GCMS Semi-Vols 8270C	PCB	Pesticides 8081	BOD, TSS, pH	Chlorides	GRO DRO 8015M			Hold
125207	NWFLR-1	Soil	5/23 4:05	1					X																								X
08	SWFLR-1		4:10	1																													X
09	EWFLR-1		4:15	1																													X
10	~~SW~~SWFLR-1		4:19	1																													X
11	SWall, 3'	Soil	1:55p	1																											X		
12	NWall, 3'		2:15p	1								X																			X		
13	EWall, 3'		2:35p	1																											X		
14	WWall, 3'		2:23p	1																											X		
15	SWFLR, 6'		2:00p																														X
16	NWFLR, 6'		2:08p																														X
17	NEFLR, 6		2:41p																														X
18	SEFLR, 6		2:49p																														X

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Skip Baca	5-24	9:30	Todd Luhr	5-24	9:30
Todd Luhr	5-24	10:15	AROM	5.24.01	1015
Relinquished by:	Date:	Time:	Received at Lab by:	Date:	Time:

LAB USE ONLY
Intact: Y
Headspace: N
Temp: 4
Login Review:

REMARKS:
BTEX on high GRO (8021B) on FLR Sample
Add BTEX 125212
Page 1 of 2

Carrier #: BC Todd

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Fax (915) 585-4944
1-888-588-3443

CHAIN-OF-CUSTODY and ANALYSIS REQUEST

Lab Order ID#: 1052410

Contact: Skip Baca	Phone: ~~(432) 687-1994~~ (432) 425-8329	Project #:
Company Name: NOVA ENV.	Fax #: (432) 520-7701	Project Name: Apache Elliott Federal
Address: 2057 Commerce	Email:	Project Location: 5 miles NE of Eunice, N. Mex
Invoice to:	Sampler: Skip Baca	Sampler Signature: Skip Baca

Turnaround Time (Business Days): [x] Normal [ ] 24 Hour [ ] 2 Days [ ] 3 Days [ ] Other

Reporting Limits: [x] Normal [ ] MDL [ ] MQL [ ] PQL [ ] Special

Lab ID (Lab Use Only)	Field Code	Matrix	Date/Time	# Containers	Preservatives: HCl	HNO3	H2SO4	NaOH	Ice	None	MTBE 8021B	BTEX 8021B	TX1005 Ext	TPH 418.1	PAH 8270C	Total (Ag,As,Ba,Cd)	Total (Cr,Pb,Se,Hg)	TCLP (Ag,As,Ba,Cd)	TCLP (Cr,Pb,Se,Hg)	TCLP Volatiles	TCLP Semi-Vols	TCLP Pesticides	RCI	GCMS Volatiles 8260B	GCMS Semi-Vols 8270C	PCB	Pesticides 8081	BOD, TSS, pH	GRO DRO 8015M	Chloride					Hold
125219	SW FLR, 10'	Soil	5/23 3:10	1					X																			X	X						
20	SW FLR, 14'		3:20																																X
21	NE FLR, 10'		3:30																									X							
22	NE FLR, 14'		3:42																																X
23	SE FLR, 10		3:48																									X							
24	SE FLR, 14		3:50																																X
25	NW FLR, 10		4:00																									X							
26	NW FLR, 14		4:03																																X

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Skip Baca	5-24	0730	Todd Hahn	5-24	1038
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Todd Hahn	5-24	08	ARoa	5.24.07	1015
Relinquished by:	Date:	Time:	Received at Lab by:	Date:	Time:

LAB USE ONLY

Intact: Y
Headspace: N
Temp: 4
Login Review:

REMARKS:
BTEX on the highest GRO (8021B) on FLR sample

page 2 of 2

Carrier #:

Submittal of samples constitutes agreement to Terms and Conditions on this COC.

Summary Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 11, 2007

Work Order: 7052506

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125466	AS-1, 3'	soil	2007-05-24	10:25	2007-05-25
125467	AS-4, 1'	soil	2007-05-24	11:13	2007-05-25
125468	AS-5, 15'	soil	2007-05-24	12:45	2007-05-25
125469	AS-6, 8'	soil	2007-05-24	12:50	2007-05-25

	BTEX				MTBE	TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
125466 - AS-1, 3'						<50.0	**1.60**
125467 - AS-4, 1'						<50.0	**1.02**
125468 - AS-5, 15'						**1190**	**51.7**
125469 - AS-6, 8'	<0.100	<0 100	**0.557**	**1.01**		**2680**	**213**

Sample: 125466 - AS-1, 3'

Param	Flag	Result	Units	RL
Chloride		**16.5**	mg/Kg	1.00

Sample: 125467 - AS-4, 1'

Param	Flag	Result	Units	RL
Chloride		**15.0**	mg/Kg	1.00

Sample: 125468 - AS-5, 15'

Param	Flag	Result	Units	RL
Chloride		**86.0**	mg/Kg	1.00

Sample: 125469 - AS-6, 8'

Param	Flag	Result	Units	RL
Chloride		**13.0**	mg/Kg	1.00

TRACEANALYSIS, INC.

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200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
6800 Basin Street, Suite A Midland, Texas 79703 432•689•6301 FAX 432•689•6313
3015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 11, 2007

Work Order: 7052506

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease
Project Number: Apache Elliot Federal

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125466	AS-1, 3'	soil	2007-05-24	10:25	2007-05-25
125467	AS-4, 1'	soil	2007-05-24	11:13	2007-05-25
125468	AS-5, 15'	soil	2007-05-24	12:45	2007-05-25
125469	AS-6, 8'	soil	2007-05-24	12:50	2007-05-25

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

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Apache Elliot Federal Lease were received by TraceAnalysis, Inc. on 2007-05-25 and assigned to work order 7052506. Samples for work order 7052506 were received intact at a temperature of 3 deg C.

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

Test	Method
BTEX	S 8021B
Chloride (IC)	E 300.0
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7052506 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: 125466 - AS-1, 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37702	Date Analyzed:	2007-05-31	Analyzed By:	AR
Prep Batch:	32673	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride	B	**16.5**		mg/Kg	5	1.00

Sample: 125466 - AS-1, 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37599	Date Analyzed:	2007-05-25	Analyzed By:	AG
Prep Batch:	32582	Sample Preparation:	2007-05-25	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		130	mg/Kg	1	150	87	32.9 - 167

Sample: 125466 - AS-1, 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37642	Date Analyzed:	2007-05-29	Analyzed By:	AG
Prep Batch:	32617	Sample Preparation:	2007-05-29	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**1.60**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.786	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	67.5 - 140.3

Sample: 125467 - AS-4, 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37702	Date Analyzed:	2007-05-31	Analyzed By:	AR
Prep Batch:	32673	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride	B	**15.0**		mg/Kg	5	1.00

Sample: 125467 - AS-4, 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37600	Date Analyzed:	2007-05-25	Analyzed By:	AG
Prep Batch:	32582	Sample Preparation:	2007-05-25	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	150	93	32.9 - 167

Sample: 125467 - AS-4, 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37642	Date Analyzed:	2007-05-29	Analyzed By:	AG
Prep Batch:	32617	Sample Preparation:	2007-05-29	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.02**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.788	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.990	mg/Kg	1	1.00	99	67.5 - 140.3

Sample: 125468 - AS-5, 15'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37702	Date Analyzed:	2007-05-31	Analyzed By:	AR
Prep Batch:	32673	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**86.0**	mg/Kg	5	1.00

Sample: 125468 - AS-5, 15'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37600	Date Analyzed:	2007-05-25	Analyzed By:	AG
Prep Batch:	32582	Sample Preparation:	2007-05-25	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1190**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		200	mg/Kg	1	150	133	32.9 - 167

Sample: 125468 - AS-5, 15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37642	Date Analyzed:	2007-05-29	Analyzed By:	AG
Prep Batch:	32617	Sample Preparation:	2007-05-29	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**51.7**	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		7.93	mg/Kg	10	10.0	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		11.4	mg/Kg	10	10.0	114	67.5 - 140.3

Sample: 125469 - AS-6, 8'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37739	Date Analyzed:	2007-05-31	Analyzed By:	AG
Prep Batch:	32700	Sample Preparation:	2007-05-31	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.100	mg/Kg	10	0.0100
Toluene		<0.100	mg/Kg	10	0.0100
Ethylbenzene		**0.557**	mg/Kg	10	0.0100
Xylene		**1.01**	mg/Kg	10	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.6	mg/Kg	10	10.0	106	26 - 117.8
4-Bromofluorobenzene (4-BFB)		11.8	mg/Kg	10	10.0	118	51.1 - 119.1

Sample: 125469 - AS-6, 8'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37702	Date Analyzed:	2007-05-31	Analyzed By:	AR
Prep Batch:	32673	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	B	**13.0**	mg/Kg	5	1.00

Sample: 125469 - AS-6, 8'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37600	Date Analyzed:	2007-05-25	Analyzed By:	AG
Prep Batch:	32582	Sample Preparation:	2007-05-25	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**2680**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	292	mg/Kg	1	150	195	32.9 - 167

Sample: 125469 - AS-6, 8'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37642	Date Analyzed:	2007-05-29	Analyzed By:	AG
Prep Batch:	32617	Sample Preparation:	2007-05-29	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**213**	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		17.4	mg/Kg	20	20.0	87	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		19.2	mg/Kg	20	20.0	96	67.5 - 140.3

Method Blank (1) QC Batch: 37599

QC Batch:	37599	Date Analyzed:	2007-05-25	Analyzed By:	AG
Prep Batch:	32582	QC Preparation:	2007-05-25	Prepared By:	MS

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		176	mg/Kg	1	150	117	44.7 - 133.6

Method Blank (1) QC Batch: 37600

QC Batch:	37600	Date Analyzed:	2007-05-25	Analyzed By:	AG
Prep Batch:	32582	QC Preparation:	2007-05-25	Prepared By:	MS

[1] High surrogate recovery due to peak interference.

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		148	mg/Kg	1	150	99	44.7 - 133.6

Method Blank (1) QC Batch: 37642

QC Batch: 37642 | Date Analyzed: 2007-05-29 | Analyzed By: AG
Prep Batch: 32617 | QC Preparation: 2007-05-29 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.893	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.812	mg/Kg	1	1.00	81	67.5 - 140.3

Matrix Blank (1) QC Batch: 37702

QC Batch: 37702 | Date Analyzed: 2007-05-31 | Analyzed By: AR
Prep Batch: 32673 | QC Preparation: 2007-05-31 | Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		3.27	mg/Kg	1

Method Blank (1) QC Batch: 37739

QC Batch: 37739 | Date Analyzed: 2007-05-31 | Analyzed By: AG
Prep Batch: 32700 | QC Preparation: 2007-05-31 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.06	mg/Kg	1	1.00	106	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.967	mg/Kg	1	1.00	97	53.9 - 125.1

Laboratory Control Spike (LCS-1)

QC Batch: 37599 | Date Analyzed: 2007-05-25 | Analyzed By: AG
Prep Batch: 32582 | QC Preparation: 2007-05-25 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	236	mg/Kg	1	250	<14.6	94	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	260	mg/Kg	1	250	<14.6	104	47.5 - 144.1	10	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	139	136	mg/Kg	1	150	93	91	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 37600 | Date Analyzed: 2007-05-25 | Analyzed By: AG
Prep Batch: 32582 | QC Preparation: 2007-05-25 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	284	mg/Kg	1	250	<14.6	114	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	239	mg/Kg	1	250	<14.6	96	47.5 - 144.1	17	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	150	136	mg/Kg	1	150	100	91	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 37642 | Date Analyzed: 2007-05-29 | Analyzed By: AG
Prep Batch: 32617 | QC Preparation: 2007-05-29 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.16	mg/Kg	1	10.0	<0.739	82	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.04	mg/Kg	1	10.0	<0.739	80	57.7 - 102.5	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.14	1.14	mg/Kg	1	1.00	114	114	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.907	0.904	mg/Kg	1	1.00	91	90	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 37702 | Date Analyzed: 2007-05-31 | Analyzed By: AR
Prep Batch: 32673 | QC Preparation: 2007-05-31 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	15.4	mg/Kg	1	12.5	2.1604	106	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	15.3	mg/Kg	1	12.5	2.1604	105	90 - 110	1	

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: 37739 | Date Analyzed: 2007-05-31 | Analyzed By: AG
Prep Batch: 32700 | QC Preparation: 2007-05-31 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.06	mg/Kg	1	1.00	<0.00110	106	68.6 - 123.4
Toluene	1.06	mg/Kg	1	1.00	<0.00150	106	74.6 - 119.3
Ethylbenzene	1.05	mg/Kg	1	1.00	<0.00160	105	72.3 - 126.2
Xylene	3.16	mg/Kg	1	3.00	<0.00410	105	76.5 - 121.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.03	mg/Kg	1	1.00	<0.00110	103	68.6 - 123.4	3	20
Toluene	1.02	mg/Kg	1	1.00	<0.00150	102	74.6 - 119.3	4	20
Ethylbenzene	1.02	mg/Kg	1	1.00	<0.00160	102	72.3 - 126.2	3	20
Xylene	3.06	mg/Kg	1	3.00	<0.00410	102	76.5 - 121.6	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.937	0.931	mg/Kg	1	1.00	94	93	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	1.03	1.03	mg/Kg	1	1.00	103	103	68.7 - 125.8

Matrix Spike (MS-1) Spiked Sample: 125277

QC Batch: 37599 | Date Analyzed: 2007-05-25 | Analyzed By: AG
Prep Batch: 32582 | QC Preparation: 2007-05-25 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO [2]	503	mg/Kg	1	250	120	153	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [3]	592	mg/Kg	1	250	120	189	11.7 - 152.3	16	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	116	130	mg/Kg	1	150	77	87	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 125467

QC Batch: 37600 | Date Analyzed: 2007-05-25 | Analyzed By: AG
Prep Batch: 32582 | QC Preparation: 2007-05-25 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	351	mg/Kg	1	250	<14.6	140	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [4]	277	mg/Kg	1	250	<14.6	111	11.7 - 152.3	24	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	174	150	mg/Kg	1	150	116	100	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 125297

QC Batch: 37642 | Date Analyzed: 2007-05-29 | Analyzed By: AG
Prep Batch: 32617 | QC Preparation: 2007-05-29 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.82	mg/Kg	1	10.0	1.4	54	10 - 141.5

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

[2]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[3]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[4]RPD is out of control limits due to extraction process. Use LCS/LCSD to demonstrate method is in control. •

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.12	mg/Kg	1	10.0	1.4	57	10 - 141.5	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.667	0.671	mg/Kg	1	1	67	67	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.04	1.01	mg/Kg	1	1	104	101	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 125512

QC Batch: 37702 | Date Analyzed: 2007-05-31 | Analyzed By: AR
Prep Batch: 32673 | QC Preparation: 2007-05-31 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	3970	mg/Kg	100	1250	2591.31	110	90 - 110

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[5]	4070	mg/Kg	100	1250	2591.31	118	90 - 110	2	

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

Matrix Spike (MS-1) Spiked Sample: 125791

QC Batch: 37739 | Date Analyzed: 2007-05-31 | Analyzed By: AG
Prep Batch: 32700 | QC Preparation: 2007-05-31 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.04	mg/Kg	1	1.00	<0.00110	104	64.4 - 115.7
Toluene	1.05	mg/Kg	1	1.00	<0.00150	105	57.8 - 124.4
Ethylbenzene	1.06	mg/Kg	1	1.00	<0.00160	106	64.8 - 125.8
Xylene	3.17	mg/Kg	1	3.00	<0.00410	106	65.2 - 121.8

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.07	mg/Kg	1	1.00	<0.00110	107	64.4 - 115.7	3	20
Toluene	1.09	mg/Kg	1	1.00	<0.00150	109	57.8 - 124.4	4	20
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.00160	110	64.8 - 125.8	4	20
Xylene	3.32	mg/Kg	1	3.00	<0.00410	111	65.2 - 121.8	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.936	0.947	mg/Kg	1	1	94	95	52.8 - 121.7

continued ...

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

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	1.05	1.04	mg/Kg	1	1	105	104	66.7 - 131.9

Standard (CCV-2)

QC Batch: 37599 Date Analyzed: 2007-05-25 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	272	109	85 - 115	2007-05-25

Standard (CCV-3)

QC Batch: 37599 Date Analyzed: 2007-05-25 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	260	104	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37600 Date Analyzed: 2007-05-25 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	253	101	85 - 115	2007-05-25

Standard (CCV-1)

QC Batch: 37600 Date Analyzed: 2007-05-25 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	271	108	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37642 Date Analyzed: 2007-05-29 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.910	91	85 - 115	2007-05-29

Standard (CCV-1)

QC Batch: 37642 Date Analyzed: 2007-05-29 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.14	114	85 - 115	2007-05-29

Standard (ICV-1)

QC Batch: 37702 Date Analyzed: 2007-05-31 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.6	101	90 - 110	2007-05-31

Standard (CCV-1)

QC Batch: 37702 Date Analyzed: 2007-05-31 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.6	101	90 - 110	2007-05-31

Standard (ICV-1)

QC Batch: 37739 Date Analyzed: 2007-05-31 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.101	101	85 - 115	2007-05-31
Toluene		mg/Kg	0.100	0.102	102	85 - 115	2007-05-31
Ethylbenzene		mg/Kg	0.100	0.101	101	85 - 115	2007-05-31
Xylene		mg/Kg	0.300	0.304	101	85 - 115	2007-05-31

Standard (CCV-1)

QC Batch: 37739 Date Analyzed: 2007-05-31 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.107	107	85 - 115	2007-05-31
Toluene		mg/Kg	0.100	0.106	106	85 - 115	2007-05-31
Ethylbenzene		mg/Kg	0.100	0.103	103	85 - 115	2007-05-31
Xylene		mg/Kg	0.300	0.309	103	85 - 115	2007-05-31

125462-69

LAB Order ID # 7052506 Page 1 of

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: NOVA Environmental Phone #: 520-7720

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

Contact Person: Ron Rounsaville E-mail: rrounsaville@novatraining.cc

Invoice to: (If different from above)

Project #: Project Name: APACHE ELLIOTT FEDERAL

Project Location (including state): 5 mls NE of Eunice, NM Sampler Signature: Ron Rounsaville

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125462	NWFLR -8'	1	4oz		X							X		5/24/07	1700
463	NEFLR -8'	1			X							X			1715
464	SWFLR - 8'	1			X							X			1705
465	SEFLR - 8'	1			X							X			1710
466	AS-1, 3'	1			X							X			1025
467	AS-4, 1'	1			X							X			1113
468	AS-5, 15'	1			X							X			1245
469	AS-6, 8'	1			X							X		5/24/07	1250

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	(TPH 8015 GRO / DRO) TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	CHLORIDES	Turn Around Time if different from standard	Hold
125462				X														X		X
463				X														X		X
464				X														X		X
465				X														X		X
466				X														X		
467				X														X		
468				X														X		
469		X		X														X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Ron Rounsaville	5/24/07	2020	Daniel Robinson	5/25/07	9:15 am
Daniel Robinson	5/25/07	9:20 am			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			Received at Laboratory by:	5/25/07	9:20

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

ORIGINAL COPY

LAB USE ONLY

Intact (Y) N

Headspace Y / N

Temp 3 °

Log-in-Review MS

Carrier #

REMARKS: Run BTEX 8021B on Highest TPH GRO Put FLR samples on hold per Ron 5-25-07 @ 10:00

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Summary Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 5, 2007

Work Order: 7053117

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125991	N. Wall, 14'	soil	2007-05-25	13:55	2007-05-31
125992	W. Wall, 13'	soil	2007-05-25	13:52	2007-05-31
125993	S. Wall, 12'	soil	2007-05-25	13:59	2007-05-31

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
125991 - N. Wall, 14'	**556**	**1.12**
125992 - W. Wall, 13'	<50.0	**1.11**
125993 - S. Wall, 12'	<50.0	<1.00

TRACEANALYSIS, INC.

3701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
6701 Basin Street, Suite A Midland, Texas 79703 432•689•6301 FAX 432•689•6313
3015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 5, 2007

Work Order: 7053117

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease
Project Number: Apache Elliot Federal

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125991	N. Wall, 14'	soil	2007-05-25	13:55	2007-05-31
125992	W. Wall, 13'	soil	2007-05-25	13:52	2007-05-31
125993	S. Wall, 12'	soil	2007-05-25	13:59	2007-05-31

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.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Apache Elliot Federal Lease were received by TraceAnalysis, Inc. on 2007-05-31 and assigned to work order 7053117. Samples for work order 7053117 were received intact at a temperature of 4 deg C.

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

Test	Method
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7053117 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: 125991 - N. Wall, 14'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37769	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32725	Sample Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**556**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		125	mg/Kg	1	150	83	32.9 - 167

Sample: 125991 - N. Wall, 14'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37777	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.12**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.789	mg/Kg	1	1.00	79	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.944	mg/Kg	1	1.00	94	67.5 - 140.3

Sample: 125992 - W. Wall, 13'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37759	Date Analyzed:	2007-05-31	Analyzed By:	AG
Prep Batch:	32716	Sample Preparation:	2007-05-31	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	150	98	61.7 - 143.2

Sample: 125992 - W. Wall, 13'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37777	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.11**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.797	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.946	mg/Kg	1	1.00	95	67.5 - 140.3

Sample: 125993 - S. Wall, 12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37759	Date Analyzed:	2007-05-31	Analyzed By:	AG
Prep Batch:	32716	Sample Preparation:	2007-05-31	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		135	mg/Kg	1	150	90	61.7 - 143.2

Sample: 125993 - S. Wall, 12'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37777	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.795	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.928	mg/Kg	1	1.00	93	67.5 - 140.3

Method Blank (1) QC Batch: 37759

QC Batch:	37759	Date Analyzed:	2007-05-31	Analyzed By:	AG
Prep Batch:	32716	QC Preparation:	2007-05-31	Prepared By:	MS

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		112	mg/Kg	1	150	75	61.7 - 143.2

Method Blank (1) QC Batch: 37769

QC Batch: 37769 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32725 | QC Preparation: 2007-06-01 | Prepared By: MS

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		112	mg/Kg	1	150	75	44.7 - 133.6

Method Blank (1) QC Batch: 37777

QC Batch: 37777 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32707 | QC Preparation: 2007-06-01 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		0.752	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.886	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.810	mg/Kg	1	1.00	81	67.5 - 140.3

Laboratory Control Spike (LCS-1)

QC Batch: 37759 | Date Analyzed: 2007-05-31 | Analyzed By: AG
Prep Batch: 32716 | QC Preparation: 2007-05-31 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	237	mg/Kg	1	250	<13.4	95	62.5 - 135.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	195	mg/Kg	1	250	<13.4	78	62.5 - 135.4	19	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	105	102	mg/Kg	1	150	70	68	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch: 37769 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32725 | QC Preparation: 2007-06-01 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	289	mg/Kg	1	250	<14.6	116	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	277	mg/Kg	1	250	<14.6	111	47.5 - 144.1	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	116	110	mg/Kg	1	150	77	73	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 37777 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32707 | QC Preparation: 2007-06-01 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.18	mg/Kg	1	10.0	<0.739	82	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.90	mg/Kg	1	10.0	<0.739	79	57.7 - 102.5	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.15	1.14	mg/Kg	1	1.00	115	114	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.907	0.904	mg/Kg	1	1.00	91	90	70 - 130

Matrix Spike (MS-1) Spiked Sample: 125955

QC Batch: 37759 | Date Analyzed: 2007-05-31 | Analyzed By: AG
Prep Batch: 32716 | QC Preparation: 2007-05-31 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	352	mg/Kg	1	250	<13.4	141	29.7 - 168.6

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [1]	240	mg/Kg	1	250	<13.4	96	29.7 - 168.6	38	20

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

[1]RPD is out of control limits. Use LCS/LCSD to demonstrate analysis is under control. •

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	122	128	mg/Kg	1	150	81	85	43.4 - 193.9

Matrix Spike (MS-1) Spiked Sample: 126052

QC Batch: 37769 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32725 | QC Preparation: 2007-06-01 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	332	mg/Kg	1	250	<14.6	133	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	342	mg/Kg	1	250	<14.6	137	11.7 - 152.3	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	112	112	mg/Kg	1	150	75	75	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 125955

QC Batch: 37777 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32707 | QC Preparation: 2007-06-01 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.37	mg/Kg	1	10.0	0.993	54	10 - 141.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	5.98	mg/Kg	1	10.0	0.993	50	10 - 141.5	6	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.700	0.708	mg/Kg	1	1	70	71	40 - 125.3
4-Bromofluorobenzene (4-BFB)	0.992	0.979	mg/Kg	1	1	99	98	86.7 - 144.5

Standard (ICV-1)

QC Batch: 37759 | Date Analyzed: 2007-05-31 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	259	104	85 - 115	2007-05-31

Standard (CCV-1)

QC Batch: 37759 Date Analyzed: 2007-05-31 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	85 - 115	2007-05-31

Standard (CCV-2)

QC Batch: 37759 Date Analyzed: 2007-05-31 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	260	104	85 - 115	2007-05-31

Standard (CCV-1)

QC Batch: 37769 Date Analyzed: 2007-06-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	269	108	85 - 115	2007-06-01

Standard (CCV-2)

QC Batch: 37769 Date Analyzed: 2007-06-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	254	102	85 - 115	2007-06-01

Standard (ICV-1)

QC Batch: 37777 Date Analyzed: 2007-06-01 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2007-06-01

Standard (CCV-1)

QC Batch: 37777 Date Analyzed: 2007-06-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	85 - 115	2007-06-01

LAB Order ID # 7053117 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
6015 Harris Pkwy, Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: NOVA Safety & Environmental
Phone #: 520-7720
Address: (Street, City, Zip)
Fax #:
Contact Person: Ron Rounsaville
E-mail: rrounsaville@novatraining.cc
Invoice to: (If different from above)
Project #:
Project Name: APACHE ELLIOTT FEDERAL LEASE
Project Location (including state): 5 miles NE of Eunice, NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125991	N. Wall, 14'	1	4oz		X							X		5/25/07	1355
125992	W. Wall, 13'	1	4oz		X							X		5/25/07	1352
125993	S. Wall, 12'	1	4oz		X							X		5/25/07	1359

ANALYSIS REQUEST (Circle or Specify Method No.)

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

Relinquished by: Date: 5-30-07 Time: 800
Received by: Date: 5-31-07 Time: 10:50
Relinquished by: Date: 5-31-07 Time: 1104
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: 5/31/07 Time: 11:04

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 4°
Log-In-Review AB

REMARKS: all tests - Midland

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

Carrier #

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

ORIGINAL COPY

Summary Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 5, 2007

Work Order: 7053107

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125955	NE FLR-12'	soil	2007-05-30	16:40	2007-05-31
125957	SE FLR-12'	soil	2007-05-30	16:37	2007-05-31

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
125955 - NE FLR-12'	<50.0	<1.00
125957 - SE FLR-12'	<50.0	<1.00

Sample: 125955 - NE FLR-12'

Param	Flag	Result	Units	RL
Chloride		**59.3**	mg/Kg	2.00

Sample: 125957 - SE FLR-12'

Param	Flag	Result	Units	RL
Chloride		**84.0**	mg/Kg	2.00

TRACEANALYSIS, INC.

3701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•376•1996 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
6701 Basin Street, Suite A Midland, Texas 79703 432•689•6301 FAX 432•689•6313
3015 Parris Parkway Suite 110 Ft. Worth, Texas 76132 817•201•5260

E-Mail: info@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 5, 2007

Work Order: 7053107

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease
Project Number: Apache Elliot Federal

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125955	NE FLR-12'	soil	2007-05-30	16:40	2007-05-31
125957	SE FLR-12'	soil	2007-05-30	16:37	2007-05-31

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 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Apache Elliot Federal Lease were received by TraceAnalysis, Inc. on 2007-05-31 and assigned to work order 7053107. Samples for work order 7053107 were received intact at a temperature of 4 deg C.

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

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

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7053107 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: 125955 - NE FLR-12'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37817	Date Analyzed:	2007-06-05	Analyzed By:	AR
Prep Batch:	32758	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**59.3**	mg/Kg	25	2.00

Sample: 125955 - NE FLR-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37759	Date Analyzed:	2007-05-31	Analyzed By:	AG
Prep Batch:	32716	Sample Preparation:	2007-05-31	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		104	mg/Kg	1	150	69	61.7 - 143.2

Sample: 125955 - NE FLR-12'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37777	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.774	mg/Kg	1	1.00	77	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.942	mg/Kg	1	1.00	94	67.5 - 140.3

Sample: 125957 - SE FLR-12'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37817	Date Analyzed:	2007-06-05	Analyzed By:	AR
Prep Batch:	32758	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**84.0**	mg/Kg	25	2.00

Sample: 125957 - SE FLR-12'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37759	Date Analyzed:	2007-05-31	Analyzed By:	AG
Prep Batch:	32716	Sample Preparation:	2007-05-31	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		104	mg/Kg	1	150	69	61.7 - 143.2

Sample: 125957 - SE FLR-12'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37777	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.772	mg/Kg	1	1.00	77	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.938	mg/Kg	1	1.00	94	67.5 - 140.3

Method Blank (1) QC Batch: 37759

QC Batch:	37759	Date Analyzed:	2007-05-31	Analyzed By:	AG
Prep Batch:	32716	QC Preparation:	2007-05-31	Prepared By:	MS

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		112	mg/Kg	1	150	75	61.7 - 143.2

Method Blank (1) QC Batch: 37777

QC Batch:	37777	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32707	QC Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
GRO		0.752	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.886	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.810	mg/Kg	1	1.00	81	67.5 - 140.3

Method Blank (1) QC Batch: 37817

QC Batch: 37817 | Date Analyzed: 2007-06-05 | Analyzed By: AR
Prep Batch: 32758 | QC Preparation: 2007-06-05 | Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 37759 | Date Analyzed: 2007-05-31 | Analyzed By: AG
Prep Batch: 32716 | QC Preparation: 2007-05-31 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	237	mg/Kg	1	250	<13.4	95	62.5 - 135.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	195	mg/Kg	1	250	<13.4	78	62.5 - 135.4	19	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	105	102	mg/Kg	1	150	70	68	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch: 37777 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32707 | QC Preparation: 2007-06-01 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.18	mg/Kg	1	10.0	<0.739	82	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.90	mg/Kg	1	10.0	<0.739	79	57.7 - 102.5	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.15	1.14	mg/Kg	1	1.00	115	114	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.907	0.904	mg/Kg	1	1.00	91	90	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 37817 | Date Analyzed: 2007-06-05 | Analyzed By: AR
Prep Batch: 32758 | QC Preparation: 2007-06-05 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	102	mg/Kg	1	100	<0.500	102	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<0.500	103	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 125955

QC Batch: 37759 | Date Analyzed: 2007-05-31 | Analyzed By: AG
Prep Batch: 32716 | QC Preparation: 2007-05-31 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	352	mg/Kg	1	250	<13.4	141	29.7 - 168.6

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [1]	240	mg/Kg	1	250	<13.4	96	29.7 - 168.6	38	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	122	128	mg/Kg	1	150	81	85	43.4 - 193.9

Matrix Spike (MS-1) Spiked Sample: 125955

QC Batch: 37777 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32707 | QC Preparation: 2007-06-01 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.37	mg/Kg	1	10.0	0.993	54	10 - 141.5

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

[1]RPD is out of control limits. Use LCS/LCSD to demonstrate analysis is under control •

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	5.98	mg/Kg	1	10.0	0.993	50	10 - 141.5	6	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.700	0.708	mg/Kg	1	1	70	71	40 - 125.3
4-Bromofluorobenzene (4-BFB)	0.992	0.979	mg/Kg	1	1	99	98	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 125955

QC Batch: 37817 | Date Analyzed: 2007-06-05 | Analyzed By: AR
Prep Batch: 32758 | QC Preparation: 2007-06-05 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	2590	mg/Kg	25	2500	59.289	101	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	2610	mg/Kg	25	2500	59.289	102	85 - 115	1	20

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

Standard (ICV-1)

QC Batch: 37759 | Date Analyzed: 2007-05-31 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	259	104	85 - 115	2007-05-31

Standard (CCV-1)

QC Batch: 37759 | Date Analyzed: 2007-05-31 | Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	85 - 115	2007-05-31

Standard (ICV-1)

QC Batch: 37777 | Date Analyzed: 2007-06-01 | Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2007-06-01

Standard (CCV-1)

QC Batch: 37777 Date Analyzed: 2007-06-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	85 - 115	2007-06-01

Standard (ICV-1)

QC Batch: 37817 Date Analyzed: 2007-06-05 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2007-06-05

Standard (CCV-1)

QC Batch: 37817 Date Analyzed: 2007-06-05 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.4	98	85 - 115	2007-06-05

LAB Order ID # 7053107 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: NOVA ENVIRONMENTAL — Phone #:

Address: (Street, City, Zip) — Fax #:

Contact Person: Ron Rounsaville — E-mail: rrounsaville@novatraining.cc

Invoice to: (if different from above)

Project #: — Project Name: APACHE ELLIOTT FEDERAL LEASE

Project Location (including state): 5 Mi. N of Eunice, NM — Sampler Signature: Ron Rounsaville

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125954	NW FLR - 12'	1	4oz		X							X		5/30/07	1630
125955	NE FLR - 12'	1	"		X							X		"	1640
125956	SW FLR - 12'	1	"		X							X		"	1634
125957	SE FLR - 12'	1	"		X							X		"	1637

ANALYSIS REQUEST (Circle or Specify Method No.)

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

Relinquished by: Ron Rounsaville Date: 5/30/07 Time: 1944 — Received by: Todd Todd Date: 5-31-07 Time: 945

Relinquished by: Todd Todd Date: 5-31 Time: 950 — Received by: Helen Shelton Date: 5/31/07 Time: 9:50

Relinquished by: Date: Time: — Received at Laboratory by: Date: Time:

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp. 4 °C
Log-In-Review KB

REMARKS: Run BTEX 8021B on the HIGHEST TPH GRO sample.

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

all tests - Midland

Carrier # Courier

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C. 4-HS

ORIGINAL COPY

Summary Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 7, 2007

Work Order: 7060124

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126130	East Wall, 14'	soil	2007-05-31	14:15	2007-06-01
126131	Backfill-1	soil	2007-05-31	18:20	2007-06-01
126132	Backfill-2	soil	2007-05-31	18:22	2007-06-01

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
126130 - East Wall, 14'	<50.0	**10.1**
126131 - Backfill-1	<50.0	**3.09**
126132 - Backfill-2	<50.0	**1.82**

Sample: 126130 - East Wall, 14'

Param	Flag	Result	Units	RL
Chloride		**170**	mg/Kg	2.00

Sample: 126131 - Backfill-1

Param	Flag	Result	Units	RL
Chloride		**121**	mg/Kg	2.00

Sample: 126132 - Backfill-2

Param	Flag	Result	Units	RL
Chloride		**84.0**	mg/Kg	2.00

TRACEANALYSIS, INC.
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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 7, 2007

Work Order: 7060124

Project Location: 5 miles NE of Eunice, N.M.
Project Name: Apache Elliot Federal Lease
Project Number: Apache Elliot Federal

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126130	East Wall, 14'	soil	2007-05-31	14:15	2007-06-01
126131	Backfill-1	soil	2007-05-31	18:20	2007-06-01
126132	Backfill-2	soil	2007-05-31	18:22	2007-06-01

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

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Apache Elliot Federal Lease were received by TraceAnalysis, Inc. on 2007-06-01 and assigned to work order 7060124. Samples for work order 7060124 were received intact at a temperature of 4 deg C.

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

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

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7060124 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: 126130 - East Wall, 14'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37817	Date Analyzed:	2007-06-05	Analyzed By:	AR
Prep Batch:	32758	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**170**		mg/Kg	25	2.00

Sample: 126130 - East Wall, 14'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37769	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32725	Sample Preparation:	2007-06-01	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		109	mg/Kg	1	150	73	32.9 - 167

Sample: 126130 - East Wall, 14'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37779	Date Analyzed:	2007-06-02	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**10.1**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.629	mg/Kg	1	1.00	63	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.947	mg/Kg	1	1.00	95	67.5 - 140.3

Sample: 126131 - Backfill-1

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37817	Date Analyzed:	2007-06-05	Analyzed By:	AR
Prep Batch:	32758	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**121**		mg/Kg	25	2.00

Sample: 126131 - Backfill-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37769	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32725	Sample Preparation:	2007-06-01	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		112	mg/Kg	1	150	75	32.9 - 167

Sample: 126131 - Backfill-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37779	Date Analyzed:	2007-06-02	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	**3.09**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.774	mg/Kg	1	1.00	77	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	67.5 - 140.3

Sample: 126132 - Backfill-2

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37817	Date Analyzed:	2007-06-05	Analyzed By:	AR
Prep Batch:	32758	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**84.0**	mg/Kg	25	2.00

Sample: 126132 - Backfill-2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37769	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32725	Sample Preparation:	2007-06-01	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		118	mg/Kg	1	150	79	32.9 - 167

Sample: 126132 - Backfill-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37779	Date Analyzed:	2007-06-02	Analyzed By:	AG
Prep Batch:	32707	Sample Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	**1.82**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.780	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.963	mg/Kg	1	1.00	96	67.5 - 140.3

Method Blank (1) QC Batch: 37769

QC Batch:	37769	Date Analyzed:	2007-06-01	Analyzed By:	AG
Prep Batch:	32725	QC Preparation:	2007-06-01	Prepared By:	MS

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		112	mg/Kg	1	150	75	44.7 - 133.6

Method Blank (1) QC Batch: 37779

QC Batch:	37779	Date Analyzed:	2007-06-02	Analyzed By:	AG
Prep Batch:	32707	QC Preparation:	2007-06-01	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
GRO		0.912	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.884	mg/Kg	1	1.00	88	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.838	mg/Kg	1	1.00	84	67.5 - 140.3

Method Blank (1) QC Batch: 37817

QC Batch: 37817 | Date Analyzed: 2007-06-05 | Analyzed By: AR
Prep Batch: 32758 | QC Preparation: 2007-06-05 | Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 37769 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32725 | QC Preparation: 2007-06-01 | Prepared By: MS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	289	mg/Kg	1	250	<14.6	116	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	277	mg/Kg	1	250	<14.6	111	47.5 - 144.1	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	116	110	mg/Kg	1	150	77	73	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 37779 | Date Analyzed: 2007-06-02 | Analyzed By: AG
Prep Batch: 32707 | QC Preparation: 2007-06-01 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.21	mg/Kg	1	10.0	<0.739	82	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.51	mg/Kg	1	10.0	<0.739	95	57.7 - 102.5	15	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.15	1.13	mg/Kg	1	1.00	115	113	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.911	0.981	mg/Kg	1	1.00	91	98	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 37817 | Date Analyzed: 2007-06-05 | Analyzed By: AR
Prep Batch: 32758 | QC Preparation: 2007-06-05 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	102	mg/Kg	1	100	<0.500	102	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<0.500	103	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 126052

QC Batch: 37769 | Date Analyzed: 2007-06-01 | Analyzed By: AG
Prep Batch: 32725 | QC Preparation: 2007-06-01 | Prepared By: MS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	332	mg/Kg	1	250	<14.6	133	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	342	mg/Kg	1	250	<14.6	137	11.7 - 152.3	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	112	112	mg/Kg	1	150	75	75	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 126051

QC Batch: 37779 | Date Analyzed: 2007-06-02 | Analyzed By: AG
Prep Batch: 32707 | QC Preparation: 2007-06-01 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.94	mg/Kg	1	10.0	4.53	44	10 - 141.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.63	mg/Kg	1	10.0	4.53	31	10 - 141.5	16	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.661	0.648	mg/Kg	1	1	66	65	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.07	1.07	mg/Kg	1	1	107	107	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 125955

QC Batch: 37817 Date Analyzed: 2007-06-05 Analyzed By: AR
Prep Batch: 32758 QC Preparation: 2007-06-05 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	2590	mg/Kg	25	2500	59.289	101	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	2610	mg/Kg	25	2500	59.289	102	85 - 115	1	20

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

Standard (CCV-1)

QC Batch: 37769 Date Analyzed: 2007-06-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	269	108	85 - 115	2007-06-01

Standard (CCV-2)

QC Batch: 37769 Date Analyzed: 2007-06-01 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	254	102	85 - 115	2007-06-01

Standard (ICV-1)

QC Batch: 37779 Date Analyzed: 2007-06-02 Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	85 - 115	2007-06-02

Standard (CCV-1)

QC Batch: 37779 Date Analyzed: 2007-06-02 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.928	93	85 - 115	2007-06-02

Standard (ICV-1)

QC Batch: 37817 Date Analyzed: 2007-06-05 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2007-06-05

Standard (CCV-1)

QC Batch: 37817 Date Analyzed: 2007-06-05 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.4	98	85 - 115	2007-06-05

LAB Order ID # 70600124 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: NOVA ENVIRONMENTAL Phone #: 520-7720
Address: (Street, City, Zip) Fax #:
Contact Person: Ron Rounsaville E-mail: rrounsaville@novatraining.cc
Invoice to: (If different from above)
Project #: Project Name: APACHE ELLIOTT FEDERAL
Project Location (including state): Eunice NM Sampler Signature: Ron Rounsaville

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
126130	EAST WALL, 14'	1	4oz		X							X		5/31/07	1415
126131	BACKFILL - 1	1	4oz		X							X		5/31/07	1820
126132	BACKFILL - 2	1	4oz		X							X		5/31/07	1822

ANALYSIS REQUEST (Circle or Specify Method No.)

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

Relinquished by: Ron Rounsaville Date: 5/31/07 Time: 2010
Received by: Rolleen Haskell Date: 5/31/07 Time: 2010

Relinquished by: Rolleen Haskell Date: 6/1/07 Time: 1000
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Date: 6-1-07 Time: 10:00

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 3 °
Log-In-Review

REMARKS: all tests - midland

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

Carrier # Courier

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C. 3-HS

ORIGINAL COPY

APPENDIX B:
Site Photographs

NOVA
safety and environmental

Photographic Documentation

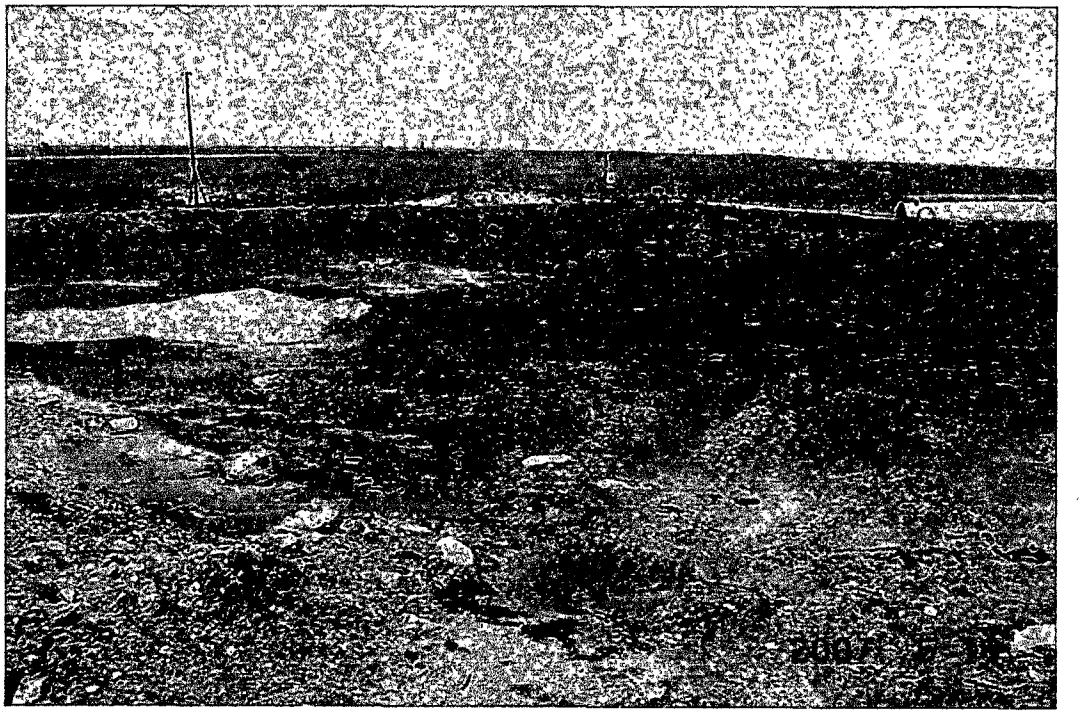
Client: Apache Corporation
Site Location: Lea County, New Mexico
Photograph Date: As Noted

Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Elliott Federal Lease

Photograph No. 1

Date: 05/10/07

Direction: Northwest

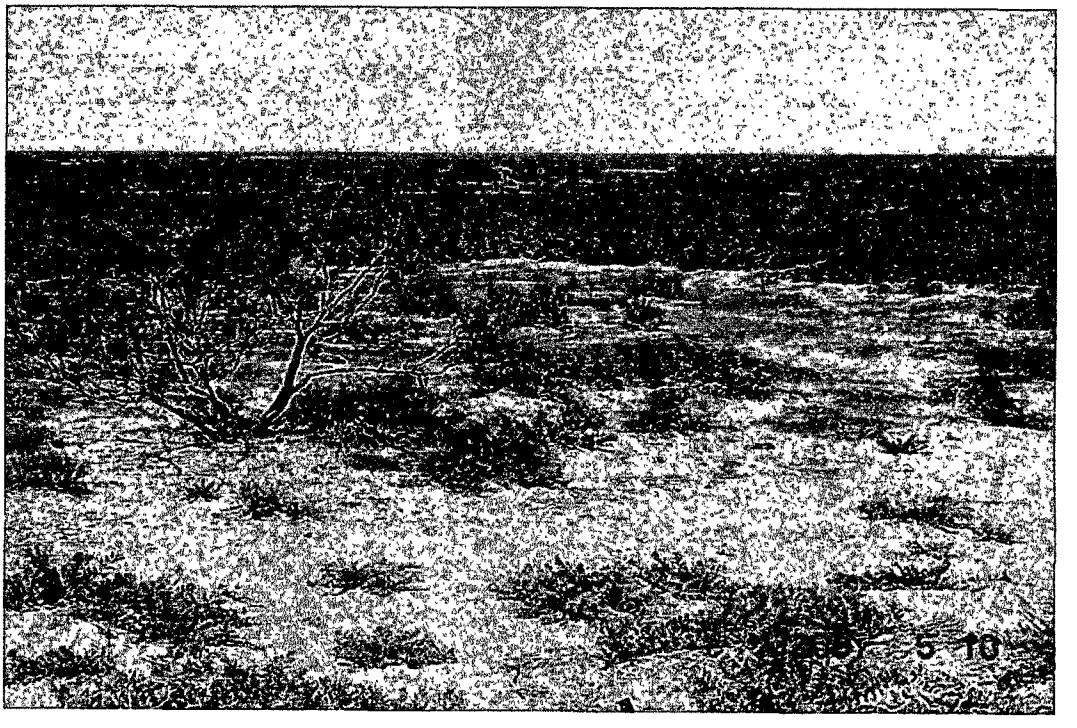


Description: View of tank battery after equipment removal and prior to excavation activities.

Photograph No. 2

Date: 05/10/07

Direction: West



Description: View of asphaltene impacted soil area located west of the former tank battery.

NOVA
safety and environmental

Photographic Documentation

Client: Apache Corporation
Site Location: Lea County, New Mexico
Photograph Date: As Noted

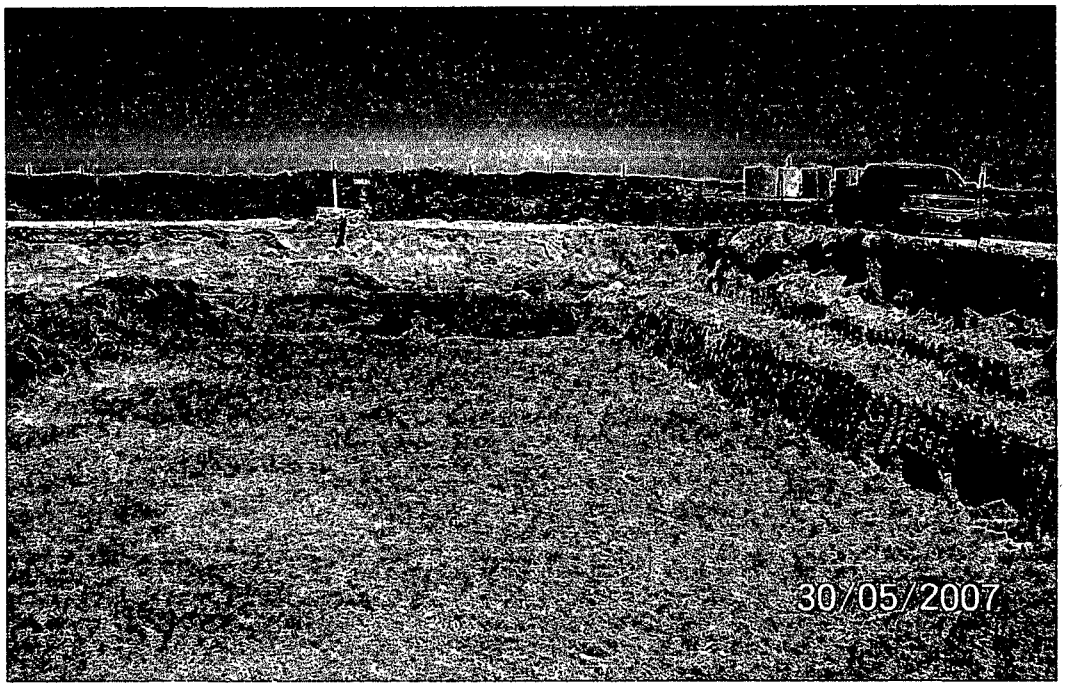
Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Elliott Federal Lease

Photograph No. 3

Date: 05/10/07

Direction: East

Description: View of former tank battery excavation area.



Photograph No. 4

Date: 05/10/07

Direction: Northwest.

Description: View of asphaltene excavation area following removal of impacted soil.

NOVA
safety and environmental

Photographic Documentation

Client: Apache Corporation
Site Location: Lea County, New Mexico
Photograph Date: As Noted

Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Elliott Federal Lease

Photograph No. 5

Date: 05/30/07

Direction: Northeast.

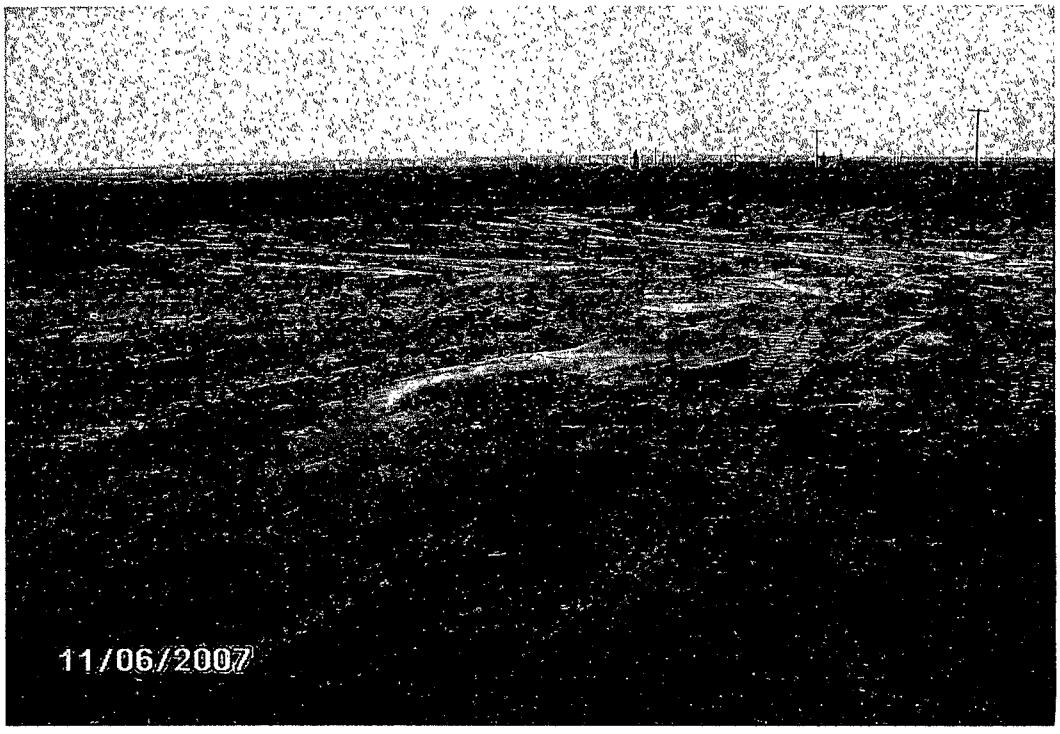
Description: View of tank battery excavation area following backfilling activities.

Photograph No. 6

Date: 05/24/07

Direction: West

Description: View of asphaltene excavation area following backfill placement.



APPENDIX C:
Release Notification and Corrective Action, Form C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact: Larry Johnson (Left message)
Address:	Telephone No.: (505) 393-4480 Ext. 111
Facility Name: Tito F Federal Battery	Facility Type: Oil, GAS, water

Surface Owner: FEDERAL	Mineral Owner	Lease No.: NM# NMLC065525A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
T	1	21S	37E					Lea

Latitude_____ Longitude_____

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 388 / Volume Recovered: 257
Source of Release:	Date and Hour of Occurrence / Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson
By Whom? Xavier Martinez	Date and Hour
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.* Hole in Bottom of tank

Describe Area Affected and Cleanup Action Taken.* Put sand on pad to soak up small amount of oil so we could Remove top soil to Remediate.

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

Signature: Xavier Martinez	OIL CONSERVATION DIVISION
Printed Name: Xavier Martinez	Approved by District Supervisor: ENVIROENGR
Title: Engineer	Approval Date: 6.5.07 / Expiration Date: 8.5.07
E-mail Address:	Conditions of Approval: FINAL C-141 RECD 8/4 / Attached ☐
Date: 1-5-07 Phone: (505)394-1503	

* Attach Additional Sheets If Necessary

BLM TRISH BADGEAR INSPECTED SITE & MONITORED CLEANUP

RP# 1423

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artiesa, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 875(

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1120 South St. Francis Dr.
Santa Fe, NM 97505

Form C-141
Revised October 10, 2003

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

Relaese Notification and Corrective Action

OPERATOR

☐ Initial Report ☑ Final Report

Name of Company	Apache Corporation	Contact	Guinn Burks
Address	P. O. Box 728, Crane,TX 79731	Telephone No.	432-556-9143
Facility Name	Elliot Federal Btty	Facility Type	Tank Battery

Surface Owner	NM State	Mineral Owner	BLM	API #	30-025-06332

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	1	21S	37E					

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	388 bbls	Volume Recovered	257 bbls
Source of Release		Daste/Hour of Occurrence	1/5/2007	Date /Hour of Discovery	1-5-07 800
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required		If Yes, To Whom?	Larry Johnson		
By Whom?	Xavier Martinez	Date and Hour	1/5/2007		
Was a Watercourse Reached? ☐ Yes ☐ No		If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, describe Fully*

NA

Describe Cause of Problem and Remedial Action Taken.*

Hole in bottom of tank.

Describe Area Affected and Cleanup Action Taken.*

Put sand on pad to sack up small amount of oil so we could remove top soil to remediate. This battery is scheduled for abandonment.

I herby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform correc

Signature: Guinn Burks		Oil Conservation Division	
Printed Name:	Guinn Burks	Approved by the District Supervisor:	
Title:	Permian Environmental Coordinator	Approval Date	Expiration Date:
Email Address:	guinn.burks@usa.apachecorp.com	Conditions of Approval:	Attached
Date: 7/18/2007	Phone: 432-556-9143		

*Attach Additional Sheets if Necessary

PAT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 875(

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1120 South St. Francis Dr.
Santa Fe, NM 97505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR ☑ Initial Report ☐ Final Report

Name of Company	Apache Corporation	Contact	Guinn Burks
Address	P. O. Box 728, Crane,TX 79731	Telephone No.	432-556-8143
Facility Name	Elliot Federal Bttv	Facility Type	Tank Battery

Surface Owner	NM State	Mineral Owner	BLM	API #	30-025-06332

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	1	21S	37E					

Latitude _____ Longitude _____

NATURE OF RELEASE

FOR FINAL ABANDONMENT OF SITE

Type of Release	Volume of Release	Volume Recovered
Source of Release	Date/Hour of Occurrence	Date /Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If Yes, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, describe Fully*

Describe Cause of Problem and Remedial Action Taken.*

Notice of Closure

Describe Area Affected and Cleanup Action Taken.*

This battery has been taken out of service and all equipment removed. Our intentions are to definate and clean this site to meet NMOCD requirments.

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

Signature: Guinn Burks	**Oil Conservation Division**
Printed Name: Guinn Burks	Approved by the District Supervisor: ENFORCE
Title: Permian Environmental Coordinator	Approval Date 7.3.07 / Expiration Date: 9.3.07
Email Address: guinn.burks@pxe.apachecorp.com	Conditions of Approval: SUBMIT DELINEATION PLAN OF ACTION BY / Attached
Date: 6/11/2007 Phone: 432-556-8143	

*Attach Additional Sheets if Necessary

COORDINATE W/ 1-RP-1423 DATED 1.5.07