

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

OIL CONS. DIV DIST. 3

JAN 19 2016

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office  
in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral K-31	Facility Type: Natural Gas Gathering Pipeline

Surface Owner: BLM	Mineral Owner: BLM	API No.
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**LOCATION OF RELEASE**

Unit Letter <b>L</b>	Section <b>9</b>	Township <b>25N</b>	Range <b>6W</b>	Feet from the <b>1674</b>	North/South Line <b>South</b>	Feet from the <b>684</b>	East/West Line <b>West</b>	County <b>Rio Arriba</b>
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Latitude 36.41141 Longitude 107.47916

**NATURE OF RELEASE**

Type of Release: Natural Gas and Condensate	Volume of Release: <b>17.57 MCF Gas; 5-10 BBLS Liquids</b>	Volume Recovered: <b>None</b>
Source of Release: Internal Corrosion	Date and Hour of Occurrence: <b>10/15/2015 @ 1:00 p.m.</b>	Date and Hour of Discovery: <b>10/15/2015 @ 1:30 p.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy Notification Cory Smith – NMOCD; Katherina Diemer - BLM	
By Whom? Thomas Long	Date and Hour <b>10/26/2015 @ 7:43 a.m.</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action: On October 15, 2015, Enterprise technicians discovered a natural gas leak in the Lateral K-31 right of way. The pipeline was isolated, depressurized, locked out and tagged out. Repairs and remediation were completed on October 28, 2015.

Describe Area Affected and Cleanup Action Taken: The soil contaminant mass was removed by mechanical excavation. The final excavation measured approximately 49 feet long by 16 feet wide ranging from 4 to 12 feet below ground surface where groundwater was encountered. Approximately 260 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation approved land farm facility. Results from the excavation water sample indicate benzene and toluene concentrations exceed New Mexico Water Quality Control Commission standards. A third party corrective action report is included with this "Final Soils" C-141. Additional groundwater delineation is required.

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: <i>Jon Fields</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Director, Field Environmental	Approval Date: <u>1/19/2017</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>1-13-2016</u> Phone: (713)381-6684	<u>NCS1534128324</u>	

\* Attach Additional Sheets If Necessary

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## **CORRECTIVE ACTION REPORT**

Property:

**Lateral K-31 (October 2015) Pipeline Release  
SW 1/4, S9 T25N R6W  
Rio Arriba County, New Mexico**

December 14, 2015  
Apex Project No. 7250415025

Prepared for:

**Enterprise Field Services, LLC  
614 Reilly Avenue  
Farmington, NM 87401  
Attn: Mr. Thomas Long**

Prepared by:

A handwritten signature in dark ink, appearing to read 'Rane Deechilly', written over a horizontal line.

Ranee Deechilly  
Environmental Scientist

A handwritten signature in dark ink, appearing to read 'Kyle Summers', written over a horizontal line.

Kyle Summers, CPG  
Branch Manager/Senior Geologist

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## **CORRECTIVE ACTION REPORT**

### **Lateral K-31 (October 2015) Pipeline Release**

SW 1/4, S9 T25N R6W  
Rio Arriba County, New Mexico

**Apex Project No. 7250415025**

## **1.0 INTRODUCTION**

### **1.1 Site Description & Background**

The Lateral K-31 pipeline release site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the southwest (SW) ¼ of Section 9 in Township 25 North and Range 6 West in rural Rio Arriba County, New Mexico (36.41141N, 107.47916W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land managed by the United States Bureau of Land Management (BLM). The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

On October 15, 2015, a natural gas pipeline release was reported by Enterprise personnel. On October 22, 2015, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential hydrocarbon impact. The pipeline was subsequently repaired by replacing approximately 40 feet of pipe. Natural gas was released from the pipeline as a result of internal corrosion. The surface expression of the release was characterized by minimally distressed vegetation in the immediate vicinity of the release.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

### **1.2 Project Objective**

The primary objective of the corrective actions was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* (RALs) using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

## **2.0 SITE RANKING**

In accordance with the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State Engineer (OSE) to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			30

Based on Apex's evaluation of the scoring criteria, the Site would earn a maximum Total Ranking Score of "30". This ranking is based on the following:

- Groundwater was encountered during excavation activities at approximately 10 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site. These proximities, or lack thereof, result in a wellhead protection area ranking of "0".
- The release point is located approximately 850 feet from the main Largo Wash cut-bank, resulting in a distance to surface water ranking of "10".

### 3.0 RESPONSE ACTIONS

#### 3.1 Soil Excavation Activities

Beginning on October 22, 2015, Enterprise initiated excavation activities at the Site to repair the subsurface leak, and remediate potential hydrocarbon impact. The pipeline was subsequently repaired by replacing approximately 40 feet of pipe. Natural gas was released from the pipeline as a result of internal corrosion. The surface expression of the release was characterized by minimal distressed vegetation in the immediate vicinity of the release. During corrective action activities, Halo Services, Inc., provided heavy equipment and labor support. Kyle Summers an Apex environmental professional, provided environmental support.

On October 22 and October 23, 2015, confirmation soil samples CS-1 through CS-11 were collected from the sidewalls and base of the excavation. In addition, three (3) soil samples (SP-2 through SP-4) were collected from the stockpiled spoils to determine the potential to reuse a portion of the soils as backfill material. Stockpile SP-1 was designated for disposal/remediation based on elevated photoionization detector (PID) readings and therefore was not sampled for laboratory analysis. Subsequent analytical results for the three sampled (3) stockpiles indicated that soils associated with sample SP-2 still exhibited evidence of hydrocarbon impact above OCD guidelines. Stockpiles SP-1 and SP-2 were transported to the OCD-approved landfarm for disposal/remediation.

Excavation activities resumed at the Site on October 27, 2015 and were completed on October 28, 2015. Confirmation soil samples CS-12 through CS-14 were collected from the remaining untested portions of the excavation, and after sitting open overnight, apparent groundwater accumulated to approximately 10 feet bgs in the central (deeper) portion of the excavation floor. One (1) water sample was subsequently collected from the accumulated water for laboratory analysis. The final excavation measured approximately 49 feet long by 16 feet wide at the

maximum extents, with a total depth ranging from four (4) feet to twelve (12) feet bgs. After the water sample was collected, the deeper portion of the excavation was partially backfilled with clean fill, providing a safe work environment for the completion of pipeline repairs.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sand.

A total of approximately 260 cubic yards of hydrocarbon affected soils were transported to the Envirotech Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 form is provided in Appendix B. The excavation was backfilled with clean imported fill and contoured to surrounding grade.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

### **3.2 Water and Soil Sampling Program**

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to evaluate volatile organic compounds (VOCs) and aid in determining the excavation limits.

Apex's soil sampling program included the collection of fourteen (14) confirmation soil samples (CS-1 through CS-14) from the resulting excavation, and three (3) stockpile soil samples (SP-2 through SP-4) for laboratory analysis. Stockpiles SP-1 and SP-2 were transported to the OCD-approved landfarm for disposal/remediation. Figure 3 depicts the approximate location of the excavated area and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

A water sample was collected from the open excavation utilizing a bailer, and was subsequently submitted for laboratory analysis to evaluate the potential for groundwater impact at the Site.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, for analysis.

### **3.3 Laboratory Analytical Methods**

The water sample, confirmation soil samples, and stockpile samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing Environmental Protection Agency (EPA) SW-846 Method #8021. The confirmation soil samples and stockpile samples were also analyzed for total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

## **4.0 DATA EVALUATION**

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules,

specifically New Mexico Administrative Code 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

#### 4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or laboratory reporting limits associated with the final confirmation samples (CS-1 through CS-14) and stockpiles samples for soils remaining at the Site (SP-3 and SP-4) to the OCD *RALs* for sites having a total ranking score of "30". Stockpiles SP-1 and SP-2 were removed by excavation and transported to Envirotech for disposal/treatment, and are not included in the following discussion.

- The laboratory analyses of confirmation samples collected from soils remaining in place and the reused spoils indicated benzene concentrations ranging from below the laboratory reporting limits to 0.20 milligram per kilogram (mg/kg) (CS-8 and CS-9), which are below the OCD *RAL* of 10 mg/kg.
- The laboratory analyses of the confirmation samples collected from soils remaining in place and the reused spoils indicate total BTEX concentrations ranging from below the laboratory reporting limits to 0.92 mg/kg (CS-8), which are below the OCD *RAL* of 50 mg/kg.
- The laboratory analyses of the confirmation samples collected from soils remaining in place and the reused spoils indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 6.7 mg/kg (CS-7), which are below the OCD *RAL* of 100 mg/kg for a Site ranking of "30".

The soils from stockpiles SP-1 and SP-2 were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation.

Confirmation sample results are provided in Table 1 in Appendix D.

#### 4.2 Water Sample

Apex compared the BTEX concentrations associated with the water sample collected from the open excavation to the New Mexico Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

- The laboratory analysis of the water sample (W-1) indicates a benzene concentration of 250 micrograms per liter ( $\mu\text{L}$ ), which exceeds the WQCC GQS of 10  $\mu\text{L}$ .
- The laboratory analysis of W-1 indicates a toluene concentration of 980  $\mu\text{L}$ , which exceeds the WQCC GQS of 750  $\mu\text{L}$ .
- The laboratory analysis of W-1 indicates an ethylbenzene concentration of 81  $\mu\text{L}$ , which is below the WQCC GQS of 750  $\mu\text{L}$ .
- The laboratory analysis of W-1 indicates a total xylenes concentration of 490  $\mu\text{L}$ , which is below the WQCC GQS of 620  $\mu\text{L}$ .

It should be noted that due to the potential of "mixing/blending" with overburden soils during excavation activities, open excavation water sample analyses are not always indicative of actual groundwater concentrations in the area.

Water sample results are provided in Table 2 in Appendix D.

## 5.0 FINDINGS AND RECOMMENDATIONS

The Lateral K-31 pipeline release site is located within the Enterprise ROW in the SW  $\frac{1}{4}$  of Section 9 in Township 25 North and Range 6 West in rural Rio Arriba County, New Mexico. The Site is located on land managed by the BLM. The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately north to south.

On October 15, 2015, a natural gas pipeline release was reported by Enterprise personnel. On October 22, 2015, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential hydrocarbon impact. The pipeline was subsequently repaired by replacing approximately 40 feet of pipe. Natural gas was released from the pipeline as a result of internal corrosion. The surface expression of the release was characterized by distressed vegetation in the immediate vicinity of the release.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD *RALs* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sand.
- The final excavation measured approximately 49 feet long by 16 feet wide at the maximum extents, with total depths ranging of approximately four (4) to twelve (12) feet bgs.
- Prior to backfilling, fourteen (14) confirmation samples soil samples were collected from the resulting final excavation for laboratory analyses. In addition, three (3) stockpile soil samples were collected from the excavation spoils to determine the potential to reuse a portion of the soils as backfill material. Stockpiles SP-1 and SP-2 were transported to the OCD-approved landfarm for disposal/remediation. Based on analytical results, soils remaining on Site do not exhibit COC concentrations above the OCD *RALs* for a Site ranking of "40".
- One (1) water sample was collected from the accumulated water in the excavation base for laboratory analysis. **The laboratory analysis of the water sample indicates a benzene concentration of 250  $\mu$ /L, which exceeds the WQCC GQS of 10  $\mu$ /L. In addition, the water sample exhibits a toluene concentration of 980  $\mu$ /L, which exceeds the WQCC GQS of 750  $\mu$ /L.**
- A total of approximately 260 cubic yards of hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with clean imported fill, and contoured to surrounding grade.

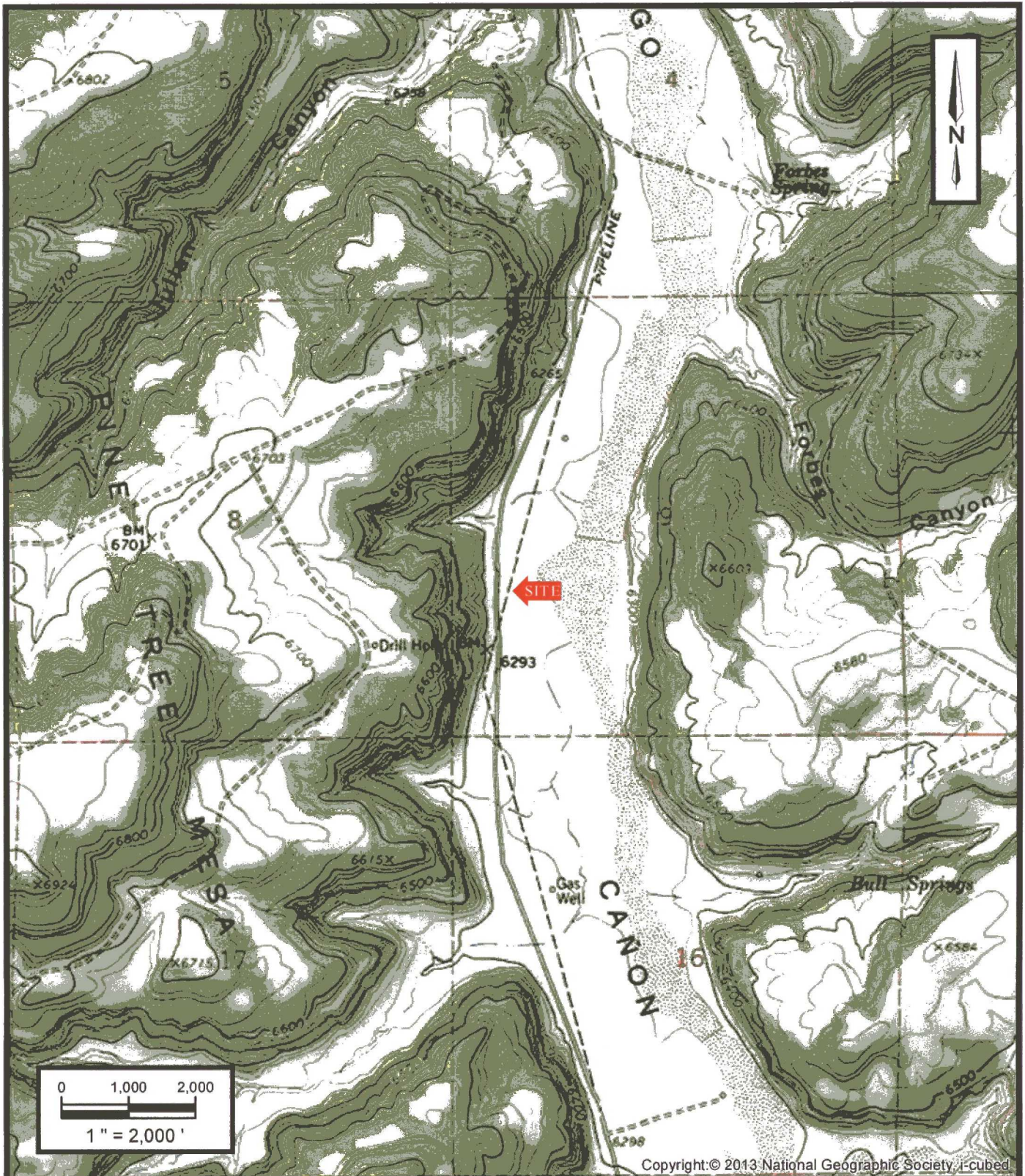
**Based on field observations and laboratory analytical results, no additional investigation or corrective action with respect to soil impact appears warranted at this time. However, further groundwater evaluation is warranted.**

## **6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE**

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.



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**Lateral K-31 (October 2015)**  
**Pipeline Release**  
 SW1/4 Sec9 T25N R6W  
 Rio Arriba County, New Mexico  
 36.41141N, 107.47916W

Project No. 7250415025



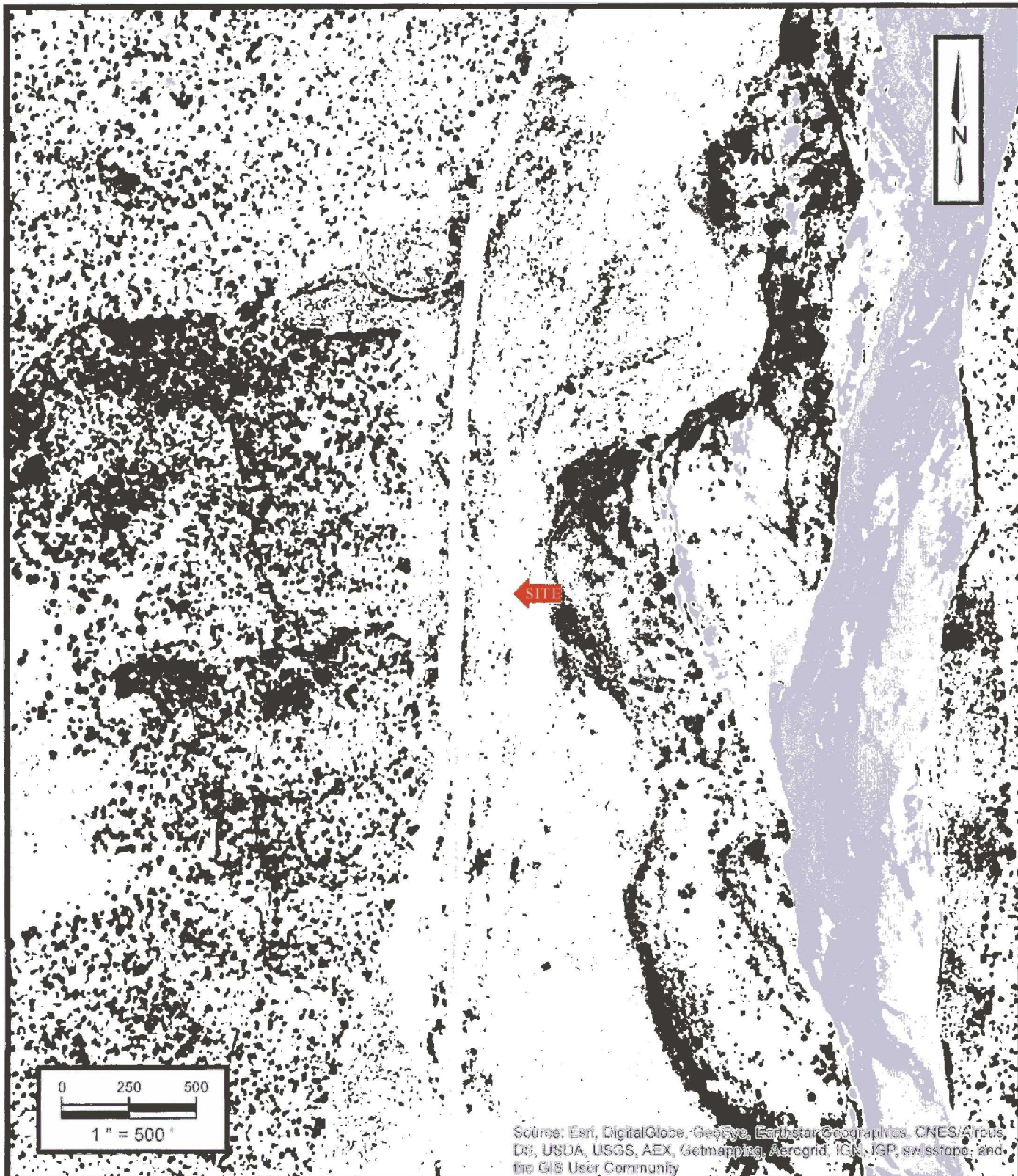
**Apex TITAN, Inc.**

606 South Rio Grande, Suite A  
 Aztec, NM 87410  
 Phone: (505) 334-5200  
 www.apexcos.com

A Subsidiary of Apex Companies, LLC

**FIGURE 1**

**Topographic Map**  
 Gonzales Mesa, NM Quadrangle  
 1963



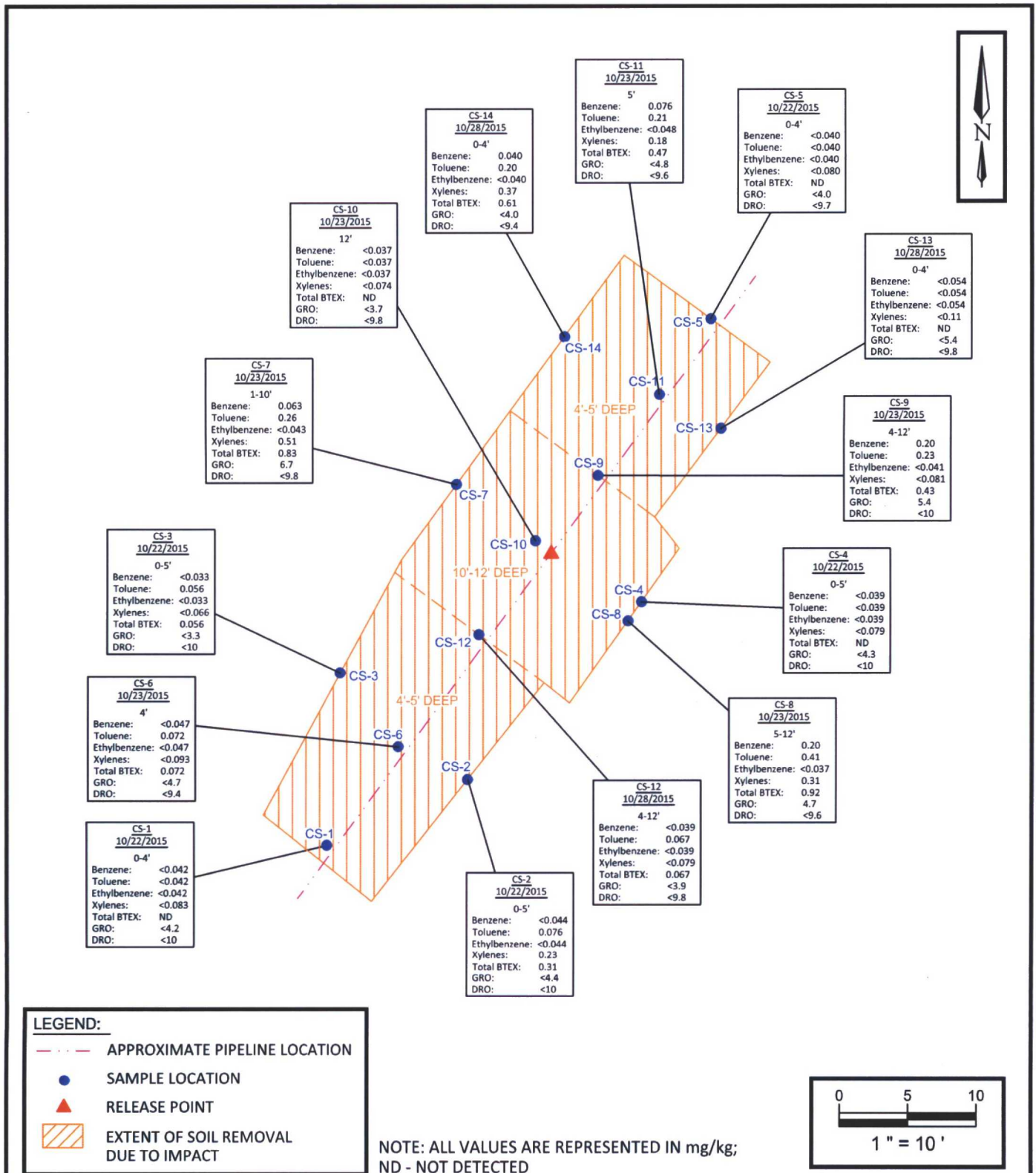
Lateral K-31 (October 2015)  
 Pipeline Release  
 SW1/4 Sec9 T25N R6W  
 Rio Arriba County, New Mexico  
 36.41141N, 107.47916W



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**FIGURE 2**  
 Site Vicinity Map

Project No. 7250415025



**Lateral K-31 (October 2015)**  
**Pipeline Release**  
 SW1/4 Sec9 T25N R6W  
 Rio Arriba County, New Mexico  
 36.41141N, 107.47916W



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**FIGURE 3**  
**Site Map with**  
**Soil Analytical Results**

Project No. 7250415025

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1 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 97057-0753  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised 08/01/11

\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:  
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site: Lateral K-31

Oct./Nov. 2015

3. Location of Material (Street Address, City, State or ULSTR):  
UL L Section 9 T 25N R 6W, GPS 36.41141, -107.479160, Rio Arriba, NM

4. Source and Description of Waste:

Source: Natural Gas Pipeline Release

Description: Hydrocarbon impacted soils associated with remediation activities for a natural gas pipeline release.

Estimated Volume 100 yd<sup>3</sup> bbls Known Volume (to be entered by the operator at the end of the haul) 260 yd<sup>3</sup> bbls

### 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Field Services, LLC do hereby

Generator Signature

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☒ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

### GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

I, Eric Giese, representative for Envirotech Inc. do hereby certify that

Representative/Agent Signature

representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Crossfire, Ibarra, Catant, BET, Riehl, Lobato, Envirotech, Ternco

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility \* Permit #: NM 01-0011

Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Eric Giese

SIGNATURE: Eric Giese

Surface Waste Management Facility Authorized Agent

TITLE: Landfarm Administrator DATE: 10/27/15

TELEPHONE NO.:

505-632-0615

**Photograph 1**

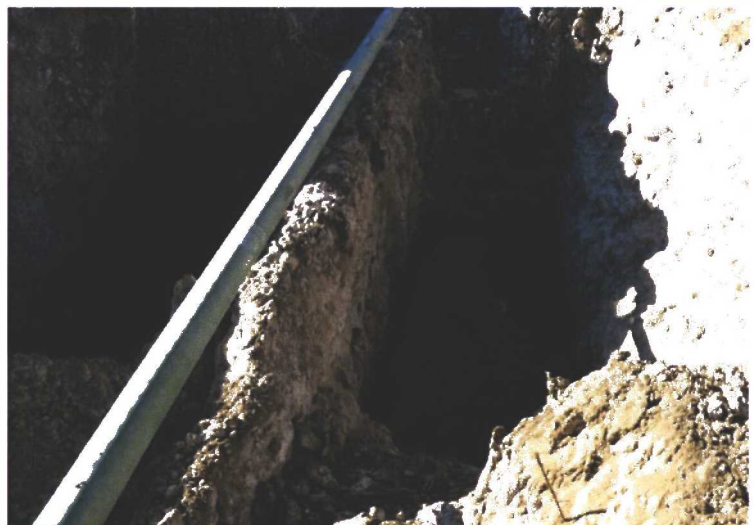
View of the initial excavation and source area, facing north. Liquids are from rain event.

**Photograph 2**

View of the initial excavation and repaired pipe, facing north.

**Photograph 3**

View of central excavation prior to water sample collection and final cleanout of soil directly beneath pipeline.



**Photograph 4**

After all sampling was complete, the lower portion of the excavation was backfilled to reduce sloughing (safety concerns).

**Photograph 5**

View of partially backfilled excavation, facing north.





**TABLE 2**  
**K-31 (October 2015) Pipeline Release**  
**GROUNDWATER ANALYTICAL SUMMARY**

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards		10	750	750	620
W-1	10.27.15	<b>250</b>	<b>980</b>	81	490

Note: Concentrations in **bold** and yellow exceed the applicable New Mexico WQCC Groundwater Quality Standards

NA = Not Analyzed

NE = Not Established

<1.0 = the numeral (in this case "1.0") identifies the laboratory PQL

**TABLE 1**  
K-31 (October 2015) Pipeline Release  
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100	
Stockpile Samples for Soils Transported to Envirotech for Treatment/Disposal									
SP-1	10.22.15	Stockpile	Not Analyzed - Elevated PID Reading						
SP-2	10.22.15	Stockpile	0.30	2.5	1.6	18	22	270	140
Stockpile Samples for Soils Used for Backfill									
SP-3	10.22.15	Stockpile	<0.041	<0.041	<0.041	<0.081	ND	<4.1	<9.9
SP-4	10.22.15	Stockpile	<0.046	<0.046	<0.046	<0.092	ND	<4.6	<9.8
Excavation Confirmation Samples									
CS-1	10.22.15	0-4	<0.042	<0.042	<0.042	<0.083	ND	<4.2	<10
CS-2	10.22.15	0-5	<0.044	0.076	<0.044	0.23	0.31	<4.4	<10
CS-3	10.22.15	0-5	<0.033	0.056	<0.033	<0.066	0.056	<3.3	<10
CS-4	10.22.15	0-5	<0.039	<0.039	<0.039	<0.079	ND	4.3	<10
CS-5	10.22.15	0-4	<0.040	<0.040	<0.040	<0.080	ND	<4.0	<9.7
CS-6	10.23.15	4	<0.047	0.072	<0.047	<0.093	0.072	<4.7	<9.4
CS-7	10.23.15	1-10	0.063	0.26	<0.043	0.51	0.83	6.7	<9.8
CS-8	10.23.15	5-12	0.20	0.41	<0.037	0.31	0.92	4.7	<9.6
CS-9	10.23.15	4-12	0.20	0.23	<0.041	<0.081	0.43	5.4	<10
CS-10	10.23.15	12	<0.037	<0.037	<0.037	<0.074	ND	<3.7	<9.8
CS-11	10.23.15	5	0.076	0.21	<0.048	0.18	0.47	<4.8	<9.6
CS-12	10.28.15	4-12	<0.039	0.067	<0.039	<0.079	0.067	<3.9	<9.8
CS-13	10.28.15	0-4	<0.054	<0.054	<0.054	<0.11	ND	<5.4	<9.8
CS-14	10.28.15	0-4	0.040	0.20	<0.040	0.37	0.61	<4.0	<9.4

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

ND = Not Detected above the Laboratory Reporting Limits

NE = Not established



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

October 27, 2015

Kyle Summers  
APEX TITAN  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX

RE: K-31 (Oct 2015)

OrderNo.: 1510A81

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/23/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1510A81

Date Reported: 10/27/2015

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX TITAN**Client Sample ID:** CS-1**Project:** K-31 (Oct 2015)**Collection Date:** 10/22/2015 1:00:00 PM**Lab ID:** 1510A81-001**Matrix:** SOIL**Received Date:** 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2015 10:04:04 AM	21995
Surr: DNOP	93.2	70-130		%REC	1	10/23/2015 10:04:04 AM	21995
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	10/23/2015 10:37:44 AM	21928
Surr: BFB	86.4	75.4-113		%REC	1	10/23/2015 10:37:44 AM	21928
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.042		mg/Kg	1	10/23/2015 10:37:44 AM	21928
Toluene	ND	0.042		mg/Kg	1	10/23/2015 10:37:44 AM	21928
Ethylbenzene	ND	0.042		mg/Kg	1	10/23/2015 10:37:44 AM	21928
Xylenes, Total	ND	0.083		mg/Kg	1	10/23/2015 10:37:44 AM	21928
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	10/23/2015 10:37:44 AM	21928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1510A81

Date Reported: 10/27/2015

**CLIENT:** APEX TITAN**Client Sample ID:** CS-2**Project:** K-31 (Oct 2015)**Collection Date:** 10/22/2015 1:15:00 PM**Lab ID:** 1510A81-002**Matrix:** SOIL**Received Date:** 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2015 10:25:18 AM	21995
Surr: DNOP	91.4	70-130		%REC	1	10/23/2015 10:25:18 AM	21995
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	10/23/2015 11:01:04 AM	21928
Surr: BFB	92.9	75.4-113		%REC	1	10/23/2015 11:01:04 AM	21928
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.044		mg/Kg	1	10/23/2015 11:01:04 AM	21928
Toluene	0.076	0.044		mg/Kg	1	10/23/2015 11:01:04 AM	21928
Ethylbenzene	ND	0.044		mg/Kg	1	10/23/2015 11:01:04 AM	21928
Xylenes, Total	0.23	0.087		mg/Kg	1	10/23/2015 11:01:04 AM	21928
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/23/2015 11:01:04 AM	21928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1510A81

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-3

Project: K-31 (Oct 2015)

Collection Date: 10/22/2015 1:30:00 PM

Lab ID: 1510A81-003

Matrix: SOIL

Received Date: 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2015 10:46:39 AM	21995
Surr: DNOP	96.0	70-130		%REC	1	10/23/2015 10:46:39 AM	21995
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/23/2015 11:24:21 AM	21928
Surr: BFB	87.9	75.4-113		%REC	1	10/23/2015 11:24:21 AM	21928
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.033		mg/Kg	1	10/23/2015 11:24:21 AM	21928
Toluene	0.056	0.033		mg/Kg	1	10/23/2015 11:24:21 AM	21928
Ethylbenzene	ND	0.033		mg/Kg	1	10/23/2015 11:24:21 AM	21928
Xylenes, Total	ND	0.066		mg/Kg	1	10/23/2015 11:24:21 AM	21928
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	10/23/2015 11:24:21 AM	21928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

# Analytical Report

Lab Order 1510A81

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-4

Project: K-31 (Oct 2015)

Collection Date: 10/22/2015 2:00:00 PM

Lab ID: 1510A81-004

Matrix: SOIL

Received Date: 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2015 11:07:50 AM	21995
Surr: DNOP	96.5	70-130		%REC	1	10/23/2015 11:07:50 AM	21995
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	4.3	3.9		mg/Kg	1	10/23/2015 11:47:38 AM	21928
Surr: BFB	101	75.4-113		%REC	1	10/23/2015 11:47:38 AM	21928
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.039		mg/Kg	1	10/23/2015 11:47:38 AM	21928
Toluene	ND	0.039		mg/Kg	1	10/23/2015 11:47:38 AM	21928
Ethylbenzene	ND	0.039		mg/Kg	1	10/23/2015 11:47:38 AM	21928
Xylenes, Total	ND	0.079		mg/Kg	1	10/23/2015 11:47:38 AM	21928
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/23/2015 11:47:38 AM	21928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1510A81

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-5

Project: K-31 (Oct 2015)

Collection Date: 10/22/2015 2:10:00 PM

Lab ID: 1510A81-005

Matrix: SOIL

Received Date: 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/23/2015 11:29:08 AM 21995	
Surr: DNOP	93.0	70-130		%REC	1	10/23/2015 11:29:08 AM 21995	
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	10/23/2015 12:10:56 PM 21928	
Surr: BFB	88.4	75.4-113		%REC	1	10/23/2015 12:10:56 PM 21928	
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.040		mg/Kg	1	10/23/2015 12:10:56 PM 21928	
Toluene	ND	0.040		mg/Kg	1	10/23/2015 12:10:56 PM 21928	
Ethylbenzene	ND	0.040		mg/Kg	1	10/23/2015 12:10:56 PM 21928	
Xylenes, Total	ND	0.080		mg/Kg	1	10/23/2015 12:10:56 PM 21928	
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	10/23/2015 12:10:56 PM 21928	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1510A81

27-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	MB-21995		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 21995		RunNo: 29746					
Prep Date:	10/23/2015		Analysis Date: 10/23/2015		SeqNo: 906086		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		93.7	70	130			

Sample ID	LCS-21995		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 21995		RunNo: 29746					
Prep Date:	10/23/2015		Analysis Date: 10/23/2015		SeqNo: 906089		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	57.4	139			
Surr: DNOP	4.5		5.000		90.1	70	130			

Sample ID	1510A81-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	CS-1		Batch ID: 21995		RunNo: 29746					
Prep Date:	10/23/2015		Analysis Date: 10/23/2015		SeqNo: 906244		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.5	47.71	0	96.8	42.3	146			
Surr: DNOP	4.3		4.771		90.3	70	130			

Sample ID	MB-21955		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 21955		RunNo: 29745					
Prep Date:	10/21/2015		Analysis Date: 10/23/2015		SeqNo: 906245		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		114	70	130			

Sample ID	1510A81-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	CS-1		Batch ID: 21995		RunNo: 29746					
Prep Date:	10/23/2015		Analysis Date: 10/23/2015		SeqNo: 906335		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	51.98	0	97.2	42.3	146	8.95	28.9	
Surr: DNOP	4.7		5.198		90.7	70	130	0	0	

Sample ID	LCS-21955		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 21955		RunNo: 29745					
Prep Date:	10/21/2015		Analysis Date: 10/23/2015		SeqNo: 906757		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		120	70	130			

### Qualifiers:

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1510A81

27-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	MB-21928	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID: 21928			RunNo: 29756					
Prep Date:	10/20/2015	Analysis Date: 10/23/2015			SeqNo: 906440		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.2	75.4	113			

Sample ID	LCS-21928		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 21928		RunNo: 29756					
Prep Date:	10/20/2015		Analysis Date: 10/23/2015		SeqNo: 906441		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	79.6	122			
Surr: BFB	920		1000		91.8	75.4	113			

Sample ID	MB-21980	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID: 21980			RunNo: 29756					
Prep Date:	10/22/2015	Analysis Date: 10/23/2015			SeqNo: 906456		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		86.7	75.4	113			

Sample ID	LCS-21980	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID: 21980			RunNo: 29756					
Prep Date:	10/22/2015	Analysis Date: 10/23/2015			SeqNo: 906457		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		94.6	75.4	113			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510A81

27-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	MB-21928	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 21928			RunNo: 29756					
Prep Date:	10/20/2015	Analysis Date: 10/23/2015			SeqNo: 906475		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	LCS-21928		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 21928		RunNo: 29756					
Prep Date:	10/20/2015		Analysis Date: 10/23/2015		SeqNo: 906476		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	0.97	0.050	1.000	0	96.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	MB-21980		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 21980		RunNo: 29756					
Prep Date:	10/22/2015		Analysis Date: 10/23/2015		SeqNo: 906486		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-21980		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 21980		RunNo: 29756					
Prep Date:	10/22/2015		Analysis Date: 10/23/2015		SeqNo: 906487		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

## Qualifiers:

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |                                                   |

# Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1510A81

RcptNo: 1

Received by/date: \_\_\_\_\_

Logged By: Anne Thorne 10/23/2015 7:00:00 AM

Completed By: Anne Thorne 10/23/2015

Reviewed By: *[Signature]* 10/23/15

*[Signature]*

*[Signature]*

## Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

## Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

## Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_


Client Instructions: \_\_\_\_\_

17. Additional remarks: \_\_\_\_\_

## 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

CHAIN OF CUSTODY RECORD

  
**APEX**  
Office Location Aztec

Laboratory: Hell  
Address: ABQ  
Contact: Freeman  
Phone: \_\_\_\_\_  
PO/SO #: \_\_\_\_\_

Project Manager Summers  
Sampler's Name Kyle Summers  
Sampler's Signature [Signature]

Proj. No. \_\_\_\_\_  
Project Name R-31 (Oct 2015)  
No/Type of Containers \_\_\_\_\_

ANALYSIS REQUESTED

1

2

3

4

5

Temp. of coolers when received (C°): 1, 2

Page 1 of \_\_\_\_\_

Matrix	Date	Time	Coed	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	10/22	1300	X		CS-1						1		1510A81-C01
		1315			CS-2								-C02
		1330			CS-3								-C03
		1400			CS-4								-C04
		1410			CS-5								-C05
<del>NFS</del> <del>ICS</del>													

Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☒ 100% Rush

Relinquished by (Signature) [Signature] Date: 10/22/15 Time: 1732

Relinquished by (Signature) [Signature] Date: 10/22/15 Time: 2050

Relinquished by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by (Signature) [Signature] Date: 11/22/15 Time: 1732

Received by (Signature) [Signature] Date: 10/23/15 Time: 0700

Received by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

NOTES: RUSH  
Bill Tom Long  
RB21200

Matrix Container    WW - Wastewater    W - Water    S - Soil    SD - Solid    L - Liquid    A - Air Bag    C - Charcoal tube    SL - sludge    O - Oil  
VOA - 40 ml vial    A/G - Amber / Or Glass 1 Liter    250 ml - Glass wide mouth    P/O - Plastic or other \_\_\_\_\_



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 27, 2015

Kyle Summers  
APEX TITAN  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX

RE: K-31 (Oct 2015)

OrderNo.: 1510A82

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/23/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1510A82

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SP-2

Project: K-31 (Oct 2015)

Collection Date: 10/22/2015 2:45:00 PM

Lab ID: 1510A82-001

Matrix: SOIL

Received Date: 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: KJH
Diesel Range Organics (DRO)	140	9.8		mg/Kg	1	10/23/2015 3:58:00 PM	21995
Surr: DNOP	121	70-130		%REC	1	10/23/2015 3:58:00 PM	21995
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	270	36		mg/Kg	10	10/23/2015 12:34:18 PM	21928
Surr: BFB	183	75.4-113	S	%REC	10	10/23/2015 12:34:18 PM	21928
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	0.30	0.18		mg/Kg	10	10/23/2015 12:34:18 PM	21928
Toluene	2.5	0.36		mg/Kg	10	10/23/2015 12:34:18 PM	21928
Ethylbenzene	1.6	0.36		mg/Kg	10	10/23/2015 12:34:18 PM	21928
Xylenes, Total	18	0.72		mg/Kg	10	10/23/2015 12:34:18 PM	21928
Surr: 4-Bromofluorobenzene	118	80-120		%REC	10	10/23/2015 12:34:18 PM	21928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 6
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

# Analytical Report

Lab Order 1510A82

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SP-3

Project: K-31 (Oct 2015)

Collection Date: 10/22/2015 3:00:00 PM

Lab ID: 1510A82-002

Matrix: SOIL

Received Date: 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/23/2015 10:52:00 AM 21995	
Surr: DNOP	100	70-130		%REC	1	10/23/2015 10:52:00 AM 21995	
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	10/23/2015 12:57:42 PM 21928	
Surr: BFB	93.7	75.4-113		%REC	1	10/23/2015 12:57:42 PM 21928	
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.041		mg/Kg	1	10/23/2015 12:57:42 PM 21928	
Toluene	ND	0.041		mg/Kg	1	10/23/2015 12:57:42 PM 21928	
Ethylbenzene	ND	0.041		mg/Kg	1	10/23/2015 12:57:42 PM 21928	
Xylenes, Total	ND	0.081		mg/Kg	1	10/23/2015 12:57:42 PM 21928	
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/23/2015 12:57:42 PM 21928	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 6
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **1510A82**Date Reported: **10/27/2015****CLIENT:** APEX TITAN**Client Sample ID:** SP-4**Project:** K-31 (Oct 2015)**Collection Date:** 10/22/2015 3:30:00 PM**Lab ID:** 1510A82-003**Matrix:** SOIL**Received Date:** 10/23/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/23/2015 11:18:52 AM	21995
Surr: DNOP	116	70-130		%REC	1	10/23/2015 11:18:52 AM	21995
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/23/2015 1:21:06 PM	21928
Surr: BFB	90.6	75.4-113		%REC	1	10/23/2015 1:21:06 PM	21928
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.046		mg/Kg	1	10/23/2015 1:21:06 PM	21928
Toluene	ND	0.046		mg/Kg	1	10/23/2015 1:21:06 PM	21928
Ethylbenzene	ND	0.046		mg/Kg	1	10/23/2015 1:21:06 PM	21928
Xylenes, Total	ND	0.092		mg/Kg	1	10/23/2015 1:21:06 PM	21928
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	10/23/2015 1:21:06 PM	21928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1510A82

27-Oct-15

Client: APEX TITAN

Project: K-31 (Oct 2015)

Sample ID	MB-21995		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 21995		RunNo: 29746					
Prep Date:	10/23/2015		Analysis Date: 10/23/2015		SeqNo: 906086		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		93.7	70	130			

Sample ID	LCS-21995		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 21995		RunNo: 29746					
Prep Date:	10/23/2015		Analysis Date: 10/23/2015		SeqNo: 906089		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	57.4	139			
Surr: DNOP	4.5		5.000		90.1	70	130			

Sample ID	MB-21955		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 21955		RunNo: 29745					
Prep Date:	10/21/2015		Analysis Date: 10/23/2015		SeqNo: 906245		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		114	70	130			

Sample ID	LCS-21955		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 21955		RunNo: 29745					
Prep Date:	10/21/2015		Analysis Date: 10/23/2015		SeqNo: 906757		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		120	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510A82

27-Oct-15

Client: APEX TITAN

Project: K-31 (Oct 2015)

Sample ID	MB-21928		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	21928		RunNo:	29756				
Prep Date:	10/20/2015		Analysis Date:	10/23/2015		SeqNo:	906440		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	860		1000		86.2	75.4	113				

Sample ID	LCS-21928		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 21928		RunNo: 29756					
Prep Date:	10/20/2015		Analysis Date: 10/23/2015		SeqNo: 906441		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	79.6	122			
Surr: BFB	920		1000		91.8	75.4	113			

Sample ID	MB-21980		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	21980		RunNo:	29756				
Prep Date:	10/22/2015		Analysis Date:	10/23/2015		SeqNo:	906456		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	870		1000		86.7	75.4	113				

Sample ID	LCS-21980		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 21980		RunNo: 29756					
Prep Date:	10/22/2015		Analysis Date: 10/23/2015		SeqNo: 906457		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		94.6	75.4	113			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1510A82

27-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	<b>MB-21928</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>21928</b>		RunNo:	<b>29756</b>			
Prep Date:	<b>10/20/2015</b>		Analysis Date:	<b>10/23/2015</b>		SeqNo:	<b>906475</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	<b>LCS-21928</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>21928</b>		RunNo:	<b>29756</b>			
Prep Date:	<b>10/20/2015</b>		Analysis Date:	<b>10/23/2015</b>		SeqNo:	<b>906476</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	0.97	0.050	1.000	0	96.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	<b>MB-21980</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>21980</b>		RunNo:	<b>29756</b>			
Prep Date:	<b>10/22/2015</b>		Analysis Date:	<b>10/23/2015</b>		SeqNo:	<b>906486</b>		Units: <b>%REC</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	<b>LCS-21980</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>21980</b>		RunNo:	<b>29756</b>			
Prep Date:	<b>10/22/2015</b>		Analysis Date:	<b>10/23/2015</b>		SeqNo:	<b>906487</b>		Units: <b>%REC</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1510A82

RcptNo: 1

Received by/date: \_\_\_\_\_

Logged By: Anne Thorne

10/23/2015 7:00:00 AM

*Anne Thorne*

Completed By: Anne Thorne

10/23/2015

*Anne Thorne*

Reviewed By: *[Signature]*

10/23/15

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (If applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_


Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec</u>		Laboratory: <u>Hall</u> Address: <u>ABQ</u>		ANALYSIS REQUESTED <div style="transform: rotate(-45deg); display: inline-block; border: 1px solid black; padding: 5px;">           APEX 8021            TPH GRO/PRO 8015         </div>										Lab use only Due Date:								
		Contact: <u>Freeman</u> Phone: _____ PO/SO #: _____												Temp. of coolers when received (C°): <u>1.2</u> <div style="display: flex; justify-content: space-around; font-size: small;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span> </div> Page <u>1</u> of <u>1</u>								
Project Manager <u>Summers</u>		Sampler's Name <u>Ryle Summers</u>		Sampler's Signature <u>[Signature]</u>																		
Proj. No. _____		Project Name <u>R-31 (Oct 2015)</u>		No/Type of Containers _____																		
Matrix	Date	Time	Comp	Bar-G	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only) <u>1510A82-CU</u> <u>-002</u> <u>-003</u>									
<u>S</u>	<u>10/22/15</u>	<u>1445</u>	<u>X</u>		<u>SP-2</u>						<u>1</u>											
<u>↓</u>	<u>↓</u>	<u>1500</u>	<u>↓</u>		<u>SP-3</u>								<u>↓</u>									
<u>↓</u>	<u>↓</u>	<u>1530</u>	<u>↓</u>		<u>SN-4</u>								<u>↓</u>									
<div style="transform: rotate(-45deg); display: inline-block; border: 1px solid black; padding: 10px;">           NER            R-31         </div>																						
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush																						
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>10/22/15</u> Time: <u>1732</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>10/22/15</u> Time: <u>1732</u>		NOTES: <u>Rush</u> <u>Bill Tom Long</u> <u>RB 21200</u>														
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>10/22/15</u> Time: <u>2050</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>10/23/15</u> Time: <u>0700</u>																
Relinquished by (Signature) _____		Date: _____ Time: _____		Received by (Signature) _____		Date: _____ Time: _____																
Relinquished by (Signature) _____		Date: _____ Time: _____		Received by (Signature) _____		Date: _____ Time: _____																
Matrix Container		WW - Wastewater VOA - 40 ml vial		W - Water A/G - Amber / Or Glass 1 Liter		S - Soil SD - Solid		L - Liquid 250 ml - Glass wide mouth		A - Air Bag		C - Charcoal tube P/O - Plastic or other		SL - sludge O - Oil								



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 27, 2015

Kyle Summers  
APEX TITAN  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX

RE: K-31 (Oct 2015)

OrderNo.: 1510B54

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/24/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1510B54

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-6

Project: K-31 (Oct 2015)

Collection Date: 10/23/2015 1:00:00 PM

Lab ID: 1510B54-001

Matrix: MEOH (SOIL)

Received Date: 10/24/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/26/2015 10:52:57 AM	22013
Surr: DNOP	155	70-130	S	%REC	1	10/26/2015 10:52:57 AM	22013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/26/2015 8:47:30 AM	R29787
Surr: BFB	88.0	75.4-113		%REC	1	10/26/2015 8:47:30 AM	R29787
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	10/26/2015 8:47:30 AM	A29787
Toluene	0.072	0.047		mg/Kg	1	10/26/2015 8:47:30 AM	A29787
Ethylbenzene	ND	0.047		mg/Kg	1	10/26/2015 8:47:30 AM	A29787
Xylenes, Total	ND	0.093		mg/Kg	1	10/26/2015 8:47:30 AM	A29787
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	10/26/2015 8:47:30 AM	A29787

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1510B54

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-7

Project: K-31 (Oct 2015)

Collection Date: 10/23/2015 1:15:00 PM

Lab ID: 1510B54-002

Matrix: MEOH (SOIL)

Received Date: 10/24/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/26/2015 10:38:56 AM	22013
Surr: DNOP	89.3	70-130		%REC	1	10/26/2015 10:38:56 AM	22013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	6.7	4.3		mg/Kg	1	10/26/2015 9:10:54 AM	R29787
Surr: BFB	95.0	75.4-113		%REC	1	10/26/2015 9:10:54 AM	R29787
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.063	0.043		mg/Kg	1	10/26/2015 9:10:54 AM	A29787
Toluene	0.26	0.043		mg/Kg	1	10/26/2015 9:10:54 AM	A29787
Ethylbenzene	ND	0.043		mg/Kg	1	10/26/2015 9:10:54 AM	A29787
Xylenes, Total	0.51	0.086		mg/Kg	1	10/26/2015 9:10:54 AM	A29787
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/26/2015 9:10:54 AM	A29787

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1510B54

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-8

Project: K-31 (Oct 2015)

Collection Date: 10/23/2015 2:00:00 PM

Lab ID: 1510B54-003

Matrix: MEOH (SOIL)

Received Date: 10/24/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/26/2015 11:00:13 AM	22013
Surr: DNOP	91.4	70-130		%REC	1	10/26/2015 11:00:13 AM	22013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	4.7	3.7		mg/Kg	1	10/26/2015 9:34:18 AM	R29787
Surr: BFB	90.2	75.4-113		%REC	1	10/26/2015 9:34:18 AM	R29787
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.20	0.037		mg/Kg	1	10/26/2015 9:34:18 AM	A29787
Toluene	0.41	0.037		mg/Kg	1	10/26/2015 9:34:18 AM	A29787
Ethylbenzene	ND	0.037		mg/Kg	1	10/26/2015 9:34:18 AM	A29787
Xylenes, Total	0.31	0.074		mg/Kg	1	10/26/2015 9:34:18 AM	A29787
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/26/2015 9:34:18 AM	A29787

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 9
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1510B54

Date Reported: 10/27/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-9

Project: K-31 (Oct 2015)

Collection Date: 10/23/2015 2:10:00 PM

Lab ID: 1510B54-004

Matrix: MEOH (SOIL)

Received Date: 10/24/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/26/2015 11:21:36 AM	22013
Surr: DNOP	93.7	70-130		%REC	1	10/26/2015 11:21:36 AM	22013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	5.4	4.1		mg/Kg	1	10/26/2015 9:57:50 AM	R29787
Surr: BFB	89.6	75.4-113		%REC	1	10/26/2015 9:57:50 AM	R29787
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.20	0.041		mg/Kg	1	10/26/2015 9:57:50 AM	A29787
Toluene	0.23	0.041		mg/Kg	1	10/26/2015 9:57:50 AM	A29787
Ethylbenzene	ND	0.041		mg/Kg	1	10/26/2015 9:57:50 AM	A29787
Xylenes, Total	ND	0.081		mg/Kg	1	10/26/2015 9:57:50 AM	A29787
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	10/26/2015 9:57:50 AM	A29787

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 9
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

**Analytical Report**

Lab Order 1510B54

Date Reported: 10/27/2015

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX TITAN**Client Sample ID:** CS-10**Project:** K-31 (Oct 2015)**Collection Date:** 10/23/2015 2:30:00 PM**Lab ID:** 1510B54-005**Matrix:** MEOH (SOIL)**Received Date:** 10/24/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/26/2015 11:42:55 AM	22013
Surr: DNOP	92.6	70-130		%REC	1	10/26/2015 11:42:55 AM	22013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/26/2015 10:21:14 AM	R29787
Surr: BFB	87.3	75.4-113		%REC	1	10/26/2015 10:21:14 AM	R29787
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.037		mg/Kg	1	10/26/2015 10:21:14 AM	A29787
Toluene	ND	0.037		mg/Kg	1	10/26/2015 10:21:14 AM	A29787
Ethylbenzene	ND	0.037		mg/Kg	1	10/26/2015 10:21:14 AM	A29787
Xylenes, Total	ND	0.074		mg/Kg	1	10/26/2015 10:21:14 AM	A29787
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/26/2015 10:21:14 AM	A29787

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report**

Lab Order 1510B54

Date Reported: 10/27/2015

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX TITAN**Client Sample ID:** CS-11**Project:** K-31 (Oct 2015)**Collection Date:** 10/23/2015 2:50:00 PM**Lab ID:** 1510B54-006**Matrix:** MEOH (SOIL)**Received Date:** 10/24/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/26/2015 12:04:22 PM 22013	
Surr: DNOP	87.3	70-130		%REC	1	10/26/2015 12:04:22 PM 22013	
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/26/2015 10:44:36 AM R29787	
Surr: BFB	90.6	75.4-113		%REC	1	10/26/2015 10:44:36 AM R29787	
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.076	0.048		mg/Kg	1	10/26/2015 10:44:36 AM A29787	
Toluene	0.21	0.048		mg/Kg	1	10/26/2015 10:44:36 AM A29787	
Ethylbenzene	ND	0.048		mg/Kg	1	10/26/2015 10:44:36 AM A29787	
Xylenes, Total	0.18	0.096		mg/Kg	1	10/26/2015 10:44:36 AM A29787	
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	10/26/2015 10:44:36 AM A29787	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1510B54

27-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	MB-22013	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	22013	RunNo:	29779					
Prep Date:	10/26/2015	Analysis Date:	10/26/2015	SeqNo:	907195	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	14		10.00		139	70	130			S

Sample ID	LCS-22013	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	22013	RunNo:	29779					
Prep Date:	10/26/2015	Analysis Date:	10/26/2015	SeqNo:	907623	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	57.4	139			
Surr: DNOP	5.6		5.000		111	70	130			

Sample ID	1510B54-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	CS-6	Batch ID:	22013	RunNo:	29779					
Prep Date:	10/26/2015	Analysis Date:	10/26/2015	SeqNo:	907624	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.6	47.85	0	105	42.3	146			
Surr: DNOP	5.3		4.785		111	70	130			

Sample ID	1510B54-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	CS-6	Batch ID:	22013	RunNo:	29779					
Prep Date:	10/26/2015	Analysis Date:	10/26/2015	SeqNo:	907625	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.4	46.99	0	96.2	42.3	146	10.2	28.9	
Surr: DNOP	4.9		4.699		105	70	130	0	0	

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510B54

27-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R29787	RunNo:	29787					
Prep Date:		Analysis Date:	10/26/2015	SeqNo:	907561	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.7	75.4	113			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R29787	RunNo:	29787					
Prep Date:		Analysis Date:	10/26/2015	SeqNo:	907562	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.1	79.6	122			
Surr: BFB	950		1000		94.8	75.4	113			

Sample ID	1510B54-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	CS-6	Batch ID:	R29787	RunNo:	29787					
Prep Date:		Analysis Date:	10/26/2015	SeqNo:	907564	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.34	1.905	106	62.5	151			
Surr: BFB	880		933.7		94.5	75.4	113			

Sample ID	1510B54-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	CS-6	Batch ID:	R29787	RunNo:	29787					
Prep Date:		Analysis Date:	10/26/2015	SeqNo:	907565	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.34	1.905	107	62.5	151	1.12	22.1	
Surr: BFB	900		933.7		96.0	75.4	113	0	0	

## Qualifiers:

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510B54

27-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	5ML RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: A29787			RunNo: 29787					
Prep Date:		Analysis Date: 10/26/2015			SeqNo: 907590		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID	100NG BTEX LCS	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: A29787			RunNo: 29787					
Prep Date:		Analysis Date: 10/26/2015			SeqNo: 907591		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	1510B54-002AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	CS-7		Batch ID: A29787		RunNo: 29787					
Prep Date:			Analysis Date: 10/26/2015		SeqNo: 907592		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.043	0.8562	0.06342	109	69.6	136			
Toluene	1.1	0.043	0.8562	0.2626	102	76.2	134			
Ethylbenzene	0.84	0.043	0.8562	0.04145	93.7	75.8	137			
Xylenes, Total	3.0	0.086	2.569	0.5090	95.9	78.9	133			
Surr: 4-Bromofluorobenzene	0.97		0.8562		114	80	120			

Sample ID	1510B54-002AMSD	SampType:	MSD	TestCode: EPA Method 8021B: Volatiles						
Client ID:	CS-7	Batch ID:	A29787	RunNo: 29787						
Prep Date:		Analysis Date:	10/26/2015	SeqNo: 907593		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.043	0.8562	0.06342	113	69.6	136	3.51	20	
Toluene	1.2	0.043	0.8562	0.2626	107	76.2	134	3.24	20	
Ethylbenzene	0.88	0.043	0.8562	0.04145	98.1	75.8	137	4.46	20	
Xylenes, Total	3.1	0.086	2.569	0.5090	100	78.9	133	3.46	20	
Surr: 4-Bromofluorobenzene	0.97		0.8562		113	80	120	0	0	

## Qualifiers:

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |                                                   |



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-343-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1510B54

RcptNo: 1

Received by/date:

*[Signature]*

10/24/15

Logged By: Lindsay Mangin

10/24/2015 9:00:00 AM

*[Signature]*

Completed By: Lindsay Mangin

10/24/2015 9:38:42 AM

*[Signature]*

Reviewed By:

*[Signature]*

10/24/15

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:   
( $<2$  or  $>12$  unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:


Client Instructions:

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	16	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec</u>		Laboratory: <u>Hall</u> Address: <u>ABQ</u> Contact: <u>Fredman</u> Phone: _____ PO/SO #: _____		ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">           DTEX 8021            TPH GRODED 8015         </div>		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.6</u> <div style="display: flex; justify-content: space-between;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span> </div> Page <u>1</u> of <u>1</u>																																																																																															
		Project Manager <u>Summers</u> Sampler's Name <u>Nick Summers</u> Sampler's Signature <u>[Signature]</u>		Proj. No. _____ Project Name <u>N-31 (Oct 2015)</u> No/Type of Containers _____		Lab Sample ID (Lab Use Only) <u>1510B54-001</u> <u>-002</u> <u>-003</u> <u>-004</u> <u>-005</u> <u>-006</u>																																																																																															
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Matrix</th> <th>Date</th> <th>Time</th> <th>Code</th> <th>Identifying Marks of Sample(s)</th> <th>Start Depth</th> <th>End Depth</th> <th>VOA</th> <th>A/G 1 L</th> <th>250 ml</th> <th>Glass Jar</th> <th>P/O</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>10/23</td> <td>1300</td> <td>X</td> <td>CS-6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>↓</td> <td>1315</td> <td>↓</td> <td>CS-7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>↓</td> <td>1400</td> <td>↓</td> <td>CS-8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>↓</td> <td>1410</td> <td>↓</td> <td>CS-9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>↓</td> <td>1430</td> <td>↓</td> <td>CS-10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>↓</td> <td>1450</td> <td>↓</td> <td>CS-11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="12" style="text-align: center;"> <u>NES</u>  <u>KS</u> </td> </tr> </tbody> </table>								Matrix	Date	Time	Code	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	5	10/23	1300	X	CS-6								↓	↓	1315	↓	CS-7								↓	↓	1400	↓	CS-8								↓	↓	1410	↓	CS-9								↓	↓	1430	↓	CS-10								↓	↓	1450	↓	CS-11								<u>NES</u> <u>KS</u>									
Matrix	Date	Time	Code	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O																																																																																										
5	10/23	1300	X	CS-6																																																																																																	
↓	↓	1315	↓	CS-7																																																																																																	
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Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>Same Day</u>						NOTES: <u>RUSH</u> <u>Bill Tom Long</u> <u>N22745</u>																																																																																															
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>10/23/15</u> Time: <u>1715</u>		Received by (Signature) <u>[Signature]</u>				Date: <u>10/23/15</u> Time: <u>1715</u>																																																																																													
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>10/23/15</u> Time: <u>1800</u>		Received by (Signature) <u>[Signature]</u>				Date: <u>10/23/15</u> Time: <u>1800</u>																																																																																													
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>10/23/15</u> Time: <u>1840</u>		Received by (Signature) <u>[Signature]</u>				Date: <u>10/24/15</u> Time: <u>0900</u>																																																																																													
Relinquished by (Signature) _____		Date: _____ Time: _____		Received by (Signature) _____				Date: _____ Time: _____																																																																																													

Matrix Container    WW - Wastewater    W - Water    S - Soil    SD - Solid    L - Liquid    A - Air Bag    C - Charcoal tube    SL - sludge    O - Oil  
 VOA - 40 ml vial    A/G - Amber / Or Glass 1 Liter    250 ml - Glass wide mouth    P/O - Plastic or other



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 29, 2015

Kyle Summers  
APEX TITAN  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX

RE: K-31 (Oct 2015)

OrderNo.: 1510C80

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/28/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1510C80

Date Reported: 10/29/2015

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX TITAN**Client Sample ID:** W-1**Project:** K-31 (Oct 2015)**Collection Date:** 10/27/2015 9:00:00 AM**Lab ID:** 1510C80-001**Matrix:** AQUEOUS**Received Date:** 10/28/2015 8:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	250	10		µg/L	10	10/28/2015 9:32:55 AM	R29843
Toluene	980	10		µg/L	10	10/28/2015 9:32:55 AM	R29843
Ethylbenzene	81	10		µg/L	10	10/28/2015 9:32:55 AM	R29843
Xylenes, Total	490	20		µg/L	10	10/28/2015 9:32:55 AM	R29843
Surr: 4-Bromofluorobenzene	123	65-127		%REC	10	10/28/2015 9:32:55 AM	R29843

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 2
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510C80

29-Oct-15

Client: APEX TITAN

Project: K-31 (Oct 2015)

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R29843	RunNo:	29843					
Prep Date:		Analysis Date:	10/28/2015	SeqNo:	909431	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	22		20.00		109	65	127			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R29843	RunNo:	29843					
Prep Date:		Analysis Date:	10/28/2015	SeqNo:	909432	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.9	80	120			
Toluene	20	1.0	20.00	0	99.3	80	120			
Ethylbenzene	18	1.0	20.00	0	91.3	80	120			
Xylenes, Total	53	2.0	60.00	0	88.6	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		120	65	127			

Sample ID	1510C80-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	W-1	Batch ID:	R29843	RunNo:	29843					
Prep Date:		Analysis Date:	10/28/2015	SeqNo:	909510	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	470	10	200.0	246.8	113	50.9	146			
Toluene	1200	10	200.0	978.2	92.7	71.7	136			E
Ethylbenzene	280	10	200.0	80.76	98.5	74.2	132			
Xylenes, Total	1100	20	600.0	486.2	104	75.7	130			
Surr: 4-Bromofluorobenzene	260		200.0		130	65	127			S

Sample ID	1510C80-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	W-1	Batch ID:	R29843	RunNo:	29843					
Prep Date:		Analysis Date:	10/28/2015	SeqNo:	909511	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	470	10	200.0	246.8	110	50.9	146	1.25	20	
Toluene	1200	10	200.0	978.2	87.0	71.7	136	0.986	20	E
Ethylbenzene	280	10	200.0	80.76	98.5	74.2	132	0.00720	20	
Xylenes, Total	1100	20	600.0	486.2	103	75.7	130	0.844	20	
Surr: 4-Bromofluorobenzene	260		200.0		130	65	127	0	0	S

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1510C80

Rep/No: 1

Received by/date:

*[Signature]*

10/28/15

Logged By: Lindsay Mangin

10/28/2015 8:34:00 AM

*[Signature]*

Completed By: Lindsay Mangin

10/28/2015 8:53:51 AM

*[Signature]*

Reviewed By:

*[Signature]*

10/28/15

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_


Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec</u>		Laboratory: <u>Hall</u>		ANALYSIS REQUESTED  <div style="transform: rotate(-90deg); transform-origin: center;">APEX 8021</div>		Lab use only Due Date:	
		Address: <u>ABQ</u>				Temp. of coolers when received (C°): <u>2.2</u>	
Project Manager <u>Summers</u>		Contact: <u>Freeman</u>		Phone: _____		Page <u>1</u> of <u>1</u>	
Sampler's Name <u>[Signature]</u>		Sampler's Signature <u>Ryle Summers</u>		PO/SO #: _____			
Proj. No. _____		Project Name <u>N-31 (Oct 2015)</u>		No/Type of Containers _____			

Matrix	Date	Time	Coed	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	10/27	0900		X	W-1			3					1510080-001
<div style="transform: rotate(-45deg); transform-origin: center; font-size: 2em; opacity: 0.5;">NFS NC</div>													

Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush			
Relinquished by (Signature) <u>[Signature]</u>	Date: <u>10/27/15</u>	Time: <u>1710</u>	Received by (Signature) <u>[Signature]</u>
Relinquished by (Signature) <u>[Signature]</u>	Date: <u>10/27/15</u>	Time: <u>1832</u>	Received by (Signature) <u>[Signature]</u>
Relinquished by (Signature) _____	Date: _____	Time: _____	Received by (Signature) _____
Relinquished by (Signature) _____	Date: _____	Time: _____	Received by (Signature) _____

NOTES: Rush  
Bill Town Long  
N22745

Matrix Container    WW - Wastewater    W - Water    S - Soil    SD - Solid    L - Liquid    A - Air Bag    C - Charcoal tube    SL - sludge    O - Oil  
                                  VOA - 40 ml vial    A/G - Amber / Or Glass 1 Liter    250 ml - Glass wide mouth    P/O - Plastic or other



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 30, 2015

Kyle Summers  
APEX TITAN  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX

RE: K-31 (Oct 2015)

OrderNo.: 1510D67

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/29/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1510D67

Date Reported: 10/30/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-12

Project: K-31 (Oct 2015)

Collection Date: 10/28/2015 10:00:00 AM

Lab ID: 1510D67-001

Matrix: MEOH (SOIL)

Received Date: 10/29/2015 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/29/2015 10:37:06 AM	22079
Surr: DNOP	91.6	70-130		%REC	1	10/29/2015 10:37:06 AM	22079
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/29/2015 9:24:16 AM	22060
Surr: BFB	88.2	75.4-113		%REC	1	10/29/2015 9:24:16 AM	22060
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.039		mg/Kg	1	10/29/2015 9:24:16 AM	22060
Toluene	0.067	0.039		mg/Kg	1	10/29/2015 9:24:16 AM	22060
Ethylbenzene	ND	0.039		mg/Kg	1	10/29/2015 9:24:16 AM	22060
Xylenes, Total	ND	0.079		mg/Kg	1	10/29/2015 9:24:16 AM	22060
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	10/29/2015 9:24:16 AM	22060

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 6
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1510D67

Date Reported: 10/30/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-13

Project: K-31 (Oct 2015)

Collection Date: 10/28/2015 10:30:00 AM

Lab ID: 1510D67-002

Matrix: MEOH (SOIL)

Received Date: 10/29/2015 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/29/2015 10:58:10 AM	22079
Surr: DNOP	97.2	70-130		%REC	1	10/29/2015 10:58:10 AM	22079
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	10/29/2015 9:47:41 AM	22060
Surr: BFB	86.7	75.4-113		%REC	1	10/29/2015 9:47:41 AM	22060
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.054		mg/Kg	1	10/29/2015 9:47:41 AM	22060
Toluene	ND	0.054		mg/Kg	1	10/29/2015 9:47:41 AM	22060
Ethylbenzene	ND	0.054		mg/Kg	1	10/29/2015 9:47:41 AM	22060
Xylenes, Total	ND	0.11		mg/Kg	1	10/29/2015 9:47:41 AM	22060
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	10/29/2015 9:47:41 AM	22060

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 6
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1510D67

Date Reported: 10/30/2015

CLIENT: APEX TITAN

Client Sample ID: CS-14

Project: K-31 (Oct 2015)

Collection Date: 10/28/2015 11:00:00 AM

Lab ID: 1510D67-003

Matrix: MEOH (SOIL)

Received Date: 10/29/2015 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/29/2015 11:19:39 AM	22079
Surr: DNOP	92.3	70-130		%REC	1	10/29/2015 11:19:39 AM	22079
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	10/29/2015 10:11:06 AM	22060
Surr: BFB	90.8	75.4-113		%REC	1	10/29/2015 10:11:06 AM	22060
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.040	0.040		mg/Kg	1	10/29/2015 10:11:06 AM	22060
Toluene	0.20	0.040		mg/Kg	1	10/29/2015 10:11:06 AM	22060
Ethylbenzene	ND	0.040		mg/Kg	1	10/29/2015 10:11:06 AM	22060
Xylenes, Total	0.37	0.080		mg/Kg	1	10/29/2015 10:11:06 AM	22060
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	10/29/2015 10:11:06 AM	22060

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RI	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510D67

30-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	MB-22079		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	22079		RunNo:	29870				
Prep Date:	10/29/2015		Analysis Date:	10/29/2015		SeqNo:	909857		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	8.8		10.00		88.3	70	130				

Sample ID	LCS-22079		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 22079		RunNo: 29870					
Prep Date:	10/29/2015		Analysis Date: 10/29/2015		SeqNo: 909858		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.6	57.4	139			
Surr: DNOP	4.4		5.000		87.1	70	130			

Sample ID	MB-22053		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 22053		RunNo: 29870					
Prep Date:	10/28/2015		Analysis Date: 10/29/2015		SeqNo: 910099		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		96.6	70	130			

Sample ID	LCS-22053		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 22053		RunNo: 29870					
Prep Date:	10/28/2015		Analysis Date: 10/29/2015		SeqNo: 910100		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.1	70	130			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510D67

30-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	MB-22060	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	22060	RunNo:	29871					
Prep Date:	10/28/2015	Analysis Date:	10/29/2015	SeqNo:	910476	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.9	75.4	113			

Sample ID	LCS-22060	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	22060	RunNo:	29871					
Prep Date:	10/28/2015	Analysis Date:	10/29/2015	SeqNo:	910477	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	79.6	122			
Surr: BFB	920		1000		91.7	75.4	113			

## Qualifiers:

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RI Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1510D67

30-Oct-15

Client: APEX TITAN  
Project: K-31 (Oct 2015)

Sample ID	MB-22060		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	22060		RunNo:	29871			
Prep Date:	10/28/2015		Analysis Date:	10/29/2015		SeqNo:	910488		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-22060		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	22060		RunNo:	29871			
Prep Date:	10/28/2015		Analysis Date:	10/29/2015		SeqNo:	910489		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	111	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

### Qualifiers:

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S % Recovery outside of range due to dilution or matrix |                                                   |



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1510D67

RcptNo: 1

Received by/date:

JA

10/29/15

Logged By: Ashley Gallegos

10/29/2015 8:15:00 AM

Ag

Completed By: Ashley Gallegos

10/29/2015 8:51:31 AM

Ag

Reviewed By:

CS

10/29/15

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:


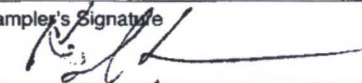
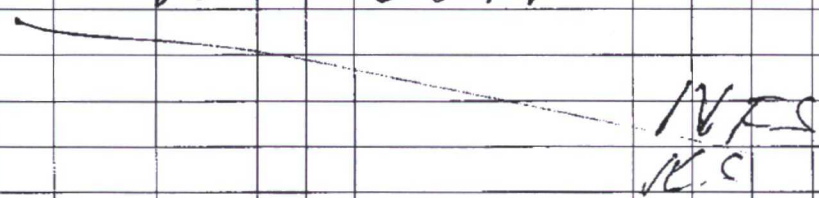
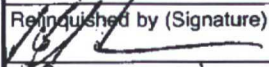
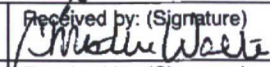
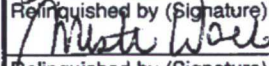
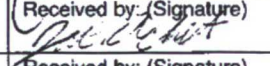
Client Instructions:

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec</u>				Laboratory: <u>Hall</u>				ANALYSIS REQUESTED <div style="transform: rotate(-45deg); display: inline-block;">           APEX 8021            TPA GRO/DRO 8015         </div>										Lab use only Due Date:							
				Address: <u>ABC</u>														Temp. of coolers when received (C°): <u>1.1</u>							
Contact: <u>Freeman</u>				Phone:				<div style="display: flex; justify-content: space-between;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span> </div>																	
Project Manager <u>Summers</u>				PO/ISO #:				Page <u>1</u> of <u>1</u>																	
Sampler's Name <u>Ryle Summers</u>				Sampler's Signature 																					
Proj. No.		Project Name <u>R-31 (Oct 2015)</u>				No/Type of Containers																			
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)												
S	10/28/15	1000	X		C.S-12								X	X	1510DU7-001										
↓	↓	1030	↓		C.S-13								X	X	-002										
↓	↓	1100	↓		C.S-14								X	X	-003										
																									
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush																									
Relinquished by (Signature) 				Date: <u>10/28/15</u>		Time: <u>1547</u>		Received by (Signature) 				Date: <u>10/28/15</u>		Time: <u>1547</u>		NOTES: <u>RUSH</u> <u>B.I. TOM LOWE</u> <u>N22745</u>									
Relinquished by (Signature) 				Date: <u>10/28/15</u>		Time: <u>1740</u>		Received by (Signature) 				Date: <u>10/29/15</u>		Time: <u>09:15</u>											
Relinquished by (Signature)				Date:		Time:		Received by (Signature)				Date:		Time:											
Relinquished by (Signature)				Date:		Time:		Received by (Signature)				Date:		Time:											
Matrix    WW - Wastewater    W - Water    S - Soil    SD - Solid    L - Liquid    A - Air Bag    C - Charcoal tube    SL - sludge    O - Oil Container    VOA - 40 ml vial    A/G - Amber / Or Glass 1 Liter    250 ml - Glass wide mouth    P/O - Plastic or other																									