

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.	

LOCATION OF RELEASE

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

NATURE OF RELEASE

Type of Release: Natural Gas and Condensate	Volume of Release: 17.57 MCF Gas; 5-10 BBLs Liquids	Volume Recovered: None
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 10/15/2015 @ 1:00 p.m.	Date and Hour of Discovery: 10/15/2015 @ 1:30 p.m.
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 10/26/2015 @ 7:43 a.m.	
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>	OIL CONSERVATION DIVISION	
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 cursive script, appearing to read 'Rane Deechilly', written over a horizontal line.

Ranee Deechilly
Environmental Scientist

A handwritten signature in cursive script, 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 ENMRD 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 (μL), which exceeds the WQCC GQS of 10 μL .
- The laboratory analysis of W-1 indicates a toluene concentration of 980 μL , which exceeds the WQCC GQS of 750 μL .
- The laboratory analysis of W-1 indicates an ethylbenzene concentration of 81 μL , which is below the WQCC GQS of 750 μL .
- The laboratory analysis of W-1 indicates a total xylenes concentration of 490 μL , which is below the WQCC GQS of 620 μL .

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 μ /L, which exceeds the WQCC GQS of 10 μ /L. In addition, the water sample exhibits a toluene concentration of 980 μ /L, which exceeds the WQCC GQS of 750 μ /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.

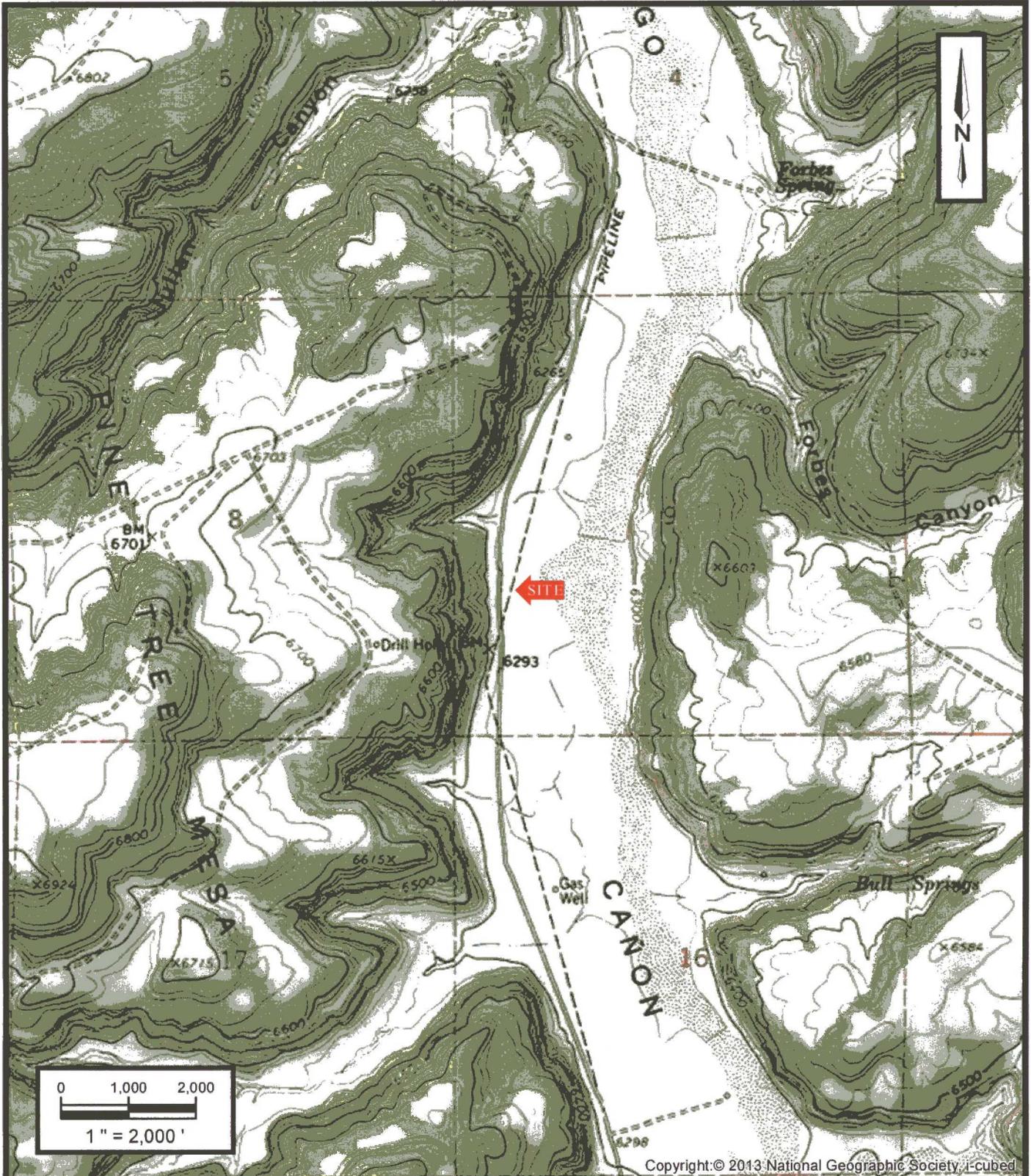
Based on field observations and laboratory analytical results, no additional investigation or corrective action with respect to soil impact appears warranted at this time. However, further groundwater evaluation is warranted.

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.



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

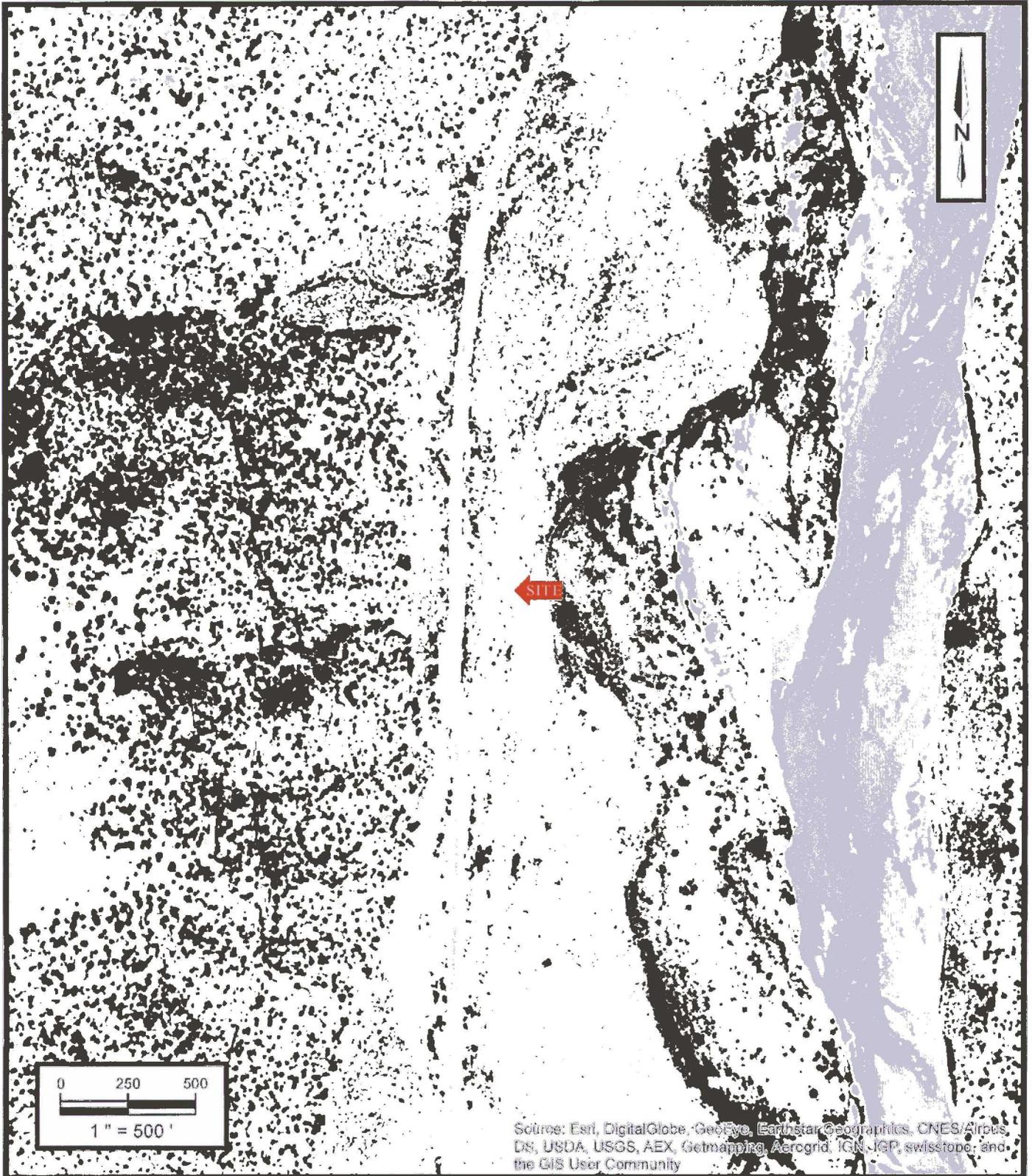
Project No. 7250415025



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, NM 87410
 Phone: (505) 334-5200
 www.apexcos.com
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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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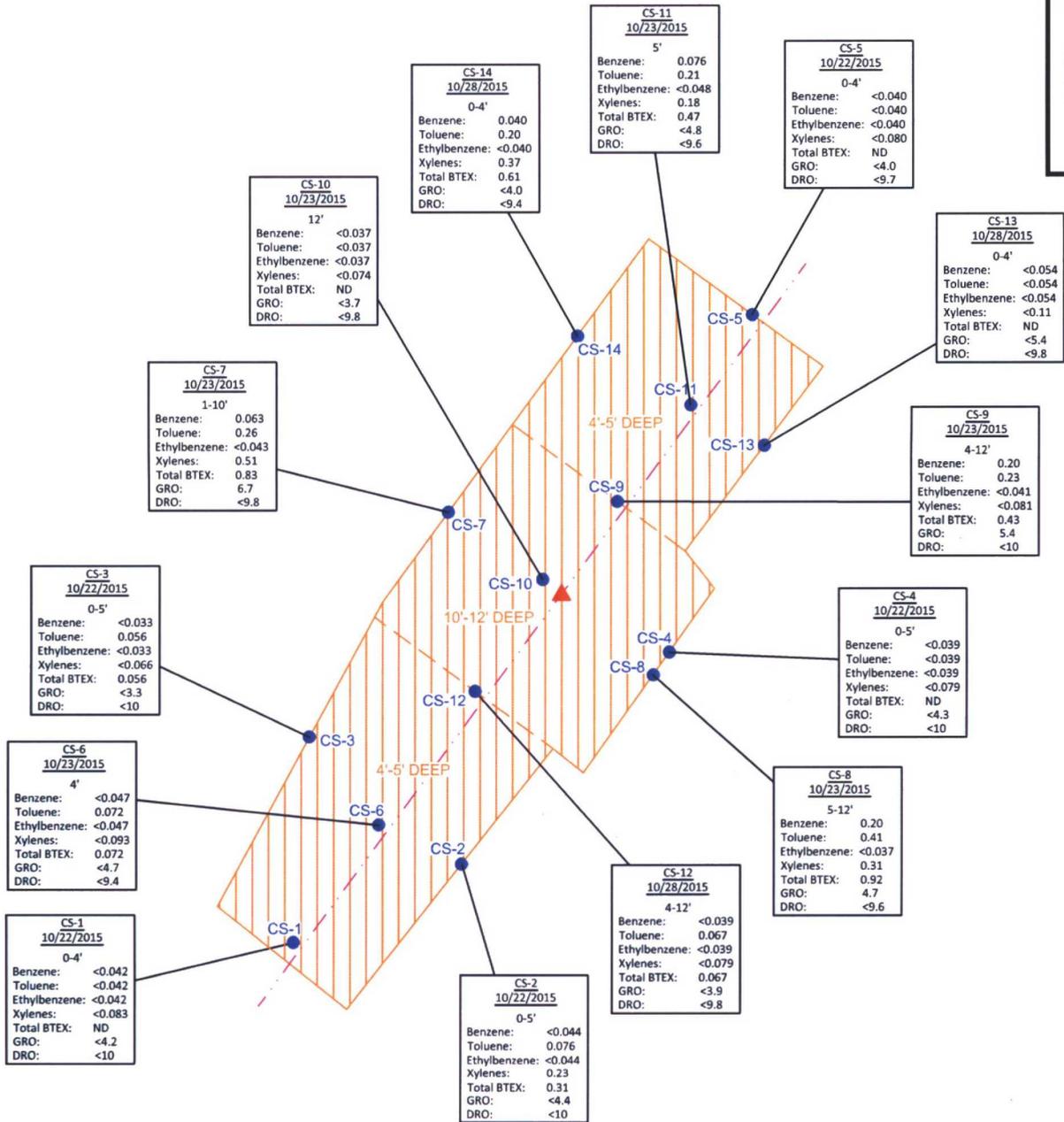
Phone: (505) 894-5357

www.apexcos.com

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FIGURE 2
 Site Vicinity Map

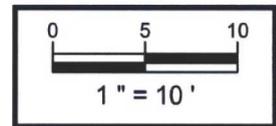
Project No. 7250415025



LEGEND:

- APPROXIMATE PIPELINE LOCATION
- SAMPLE LOCATION
- RELEASE POINT
- EXTENT OF SOIL REMOVAL DUE TO IMPACT

NOTE: ALL VALUES ARE REPRESENTED IN mg/kg;
ND - NOT DETECTED



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:

ce: Natural Gas Pipeline Release

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

Estimated Volume 100 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 260 yd³ bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, James 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, James 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, Cotant, 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

TITLE: Landfarm Administrator DATE: 10/27/15

SIGNATURE: Eric Giese

TELEPHONE NO.:

Surface Waste Management Facility Authorized Agent

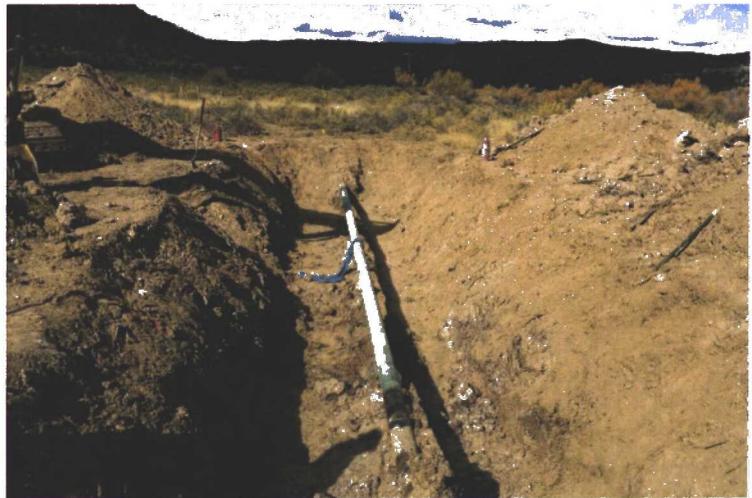
505-632-0615

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	250	980	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

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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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, 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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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	Page 2 of 8
	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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							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
EPA METHOD 8015D: GASOLINE RANGE							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
EPA METHOD 8021B: VOLATILES							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
	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.

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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-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.
- 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 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.
- 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

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 *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° 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? Yes No
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

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 <u>Aztec</u>		Laboratory: <u>Hall</u> Address: <u>ABQ</u>		ANALYSIS REQUESTED <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; font-weight: bold; margin-top: 20px;"> APEX B201 TITAN GROUND BOIS </div>										Lab use only Due Date:	
		Contact: <u>Freeman</u> Phone:												Temp. of coolers when received (C°): <u>1, 2</u>	
Project Manager <u>Summers</u>		PO/SO #:		1 2 3 4 5		Page <u>1</u> of									
Sampler's Name <u>Kyle 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	CoEd	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	10/22	1300	X		CS-1								1510A81-001		
		1315			CS-2								-02		
		1330			CS-3								-03		
		1400			CS-4								-04		
		1410			CS-5								-05		
NCS JCS															
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>RB21200</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

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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							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
EPA METHOD 8015D: GASOLINE RANGE							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
EPA METHOD 8021B: VOLATILES							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
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		

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							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
EPA METHOD 8015D: GASOLINE RANGE							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
EPA METHOD 8021B: VOLATILES							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
	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. | 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-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 | |



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° 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? Yes No
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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			



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

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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, 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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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	

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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
	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.

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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-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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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-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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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	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.
- 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 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.
- 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: 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° 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? Yes No # of preserved bottles checked for pH: _____
(Note discrepancies on chain of custody) (<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? Yes No Checked by: _____
(If no, notify customer for authorization.)

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	16	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location <u>AZTEC</u>		Laboratory: <u>Hall</u> Address: <u>ABQ</u>		ANALYSIS REQUESTED <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; font-weight: bold;"> BTEX 8021 TPH GROINED 8015 </div>										Lab use only Due Date:						
		Contact: <u>FREEMAN</u> Phone:												Temp. of coolers when received (C°): <u>1.6</u>						
Project Manager <u>SUMMERS</u>		PO/SO #:		Proj. No.					Project Name <u>N-31 (Oct 2015)</u>					No/Type of Containers					Page <u>1</u> of <u>1</u>	
Sampler's Name <u>Nick Summers</u>		Sampler's Signature <u>[Signature]</u>																		
Matrix	Date	Time	COED	G-DR-1	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)							
S	10/23	1300	X		CS-6								1510B54-001							
		1315			CS-7								-002							
		1400			CS-8								-003							
		1410			CS-9								-004							
		1430			CS-10								-005							
		1450			CS-11								-006							
					NCS KS															
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>Some 003</u>																				
Relinquished by (Signature)			Date: <u>10/23/15</u> Time: <u>1515</u>		Received by (Signature)			Date: <u>10/23/15</u> Time: <u>1715</u>		NOTES: <u>RUSH</u> <u>Bill Tom Long</u> <u>N22745</u>										
Relinquished by (Signature)			Date: <u>10/23/15</u> Time: <u>1800</u>		Received by (Signature)			Date: <u>10/23/15</u> Time: <u>1800</u>												
Relinquished by (Signature)			Date: <u>10/23/15</u> Time: <u>1840</u>		Received by (Signature)			Date: <u>10/24/15</u> Time: <u>0900</u>												
Relinquished by (Signature)			Date:		Received by (Signature)			Date:												

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

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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: K-31 (Oct 2015)
Lab ID: 1510C80-001

Client Sample ID: W-1
Collection Date: 10/27/2015 9:00:00 AM
Received Date: 10/28/2015 8:34:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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#: 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
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 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **APEX AZTEC** Work Order Number: **1510C80** Rep/No: **1**

Received by/date: *[Signature]* **10/25/15**

Logged By: **Lindsay Mangin** 10/26/2015 8:34:00 AM *[Signature]*

Completed By: **Lindsay Mangin** 10/26/2015 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° 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	2.2	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location <u>Aztec</u>		Laboratory: <u>Hall</u> Address: <u>AGQ</u>		ANALYSIS REQUESTED (Diagonal lines)		Lab use only Due Date:							
		Contact: <u>Freeman</u> Phone:				Temp. of coolers when received (C°): <u>2.2</u>							
Project Manager <u>Summers</u>		PO/SO #:		(Diagonal lines)		Page <u>1</u> of <u>1</u>							
Sampler's Name <u>[Signature]</u>		Sampler's Signature <u>Ryle Summers</u>				(Diagonal lines)		1 2 3 4 5					
Proj. No.		Project Name <u>N-31 (Oct 2015)</u>		No/Type of Containers				Lab Sample ID (Lab Use Only)					
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
 N/A N/C 													
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>10/27/15</u> Time: <u>1710</u>		Received by (Signature)			Date: <u>10/27/15</u> Time: <u>1710</u>		NOTES: <u>Rush</u> <u>Bill Tom Long</u> <u>N22745</u>			
Relinquished by (Signature)			Date: <u>10/27/15</u> Time: <u>1832</u>		Received by (Signature)			Date: <u>10/28/15</u> Time: <u>0834</u>					
Relinquished by (Signature)			Date:		Received by (Signature)			Date:					
Relinquished by (Signature)			Date:		Received by (Signature)			Date:					

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

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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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 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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Analyst: TOM							
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
EPA METHOD 8015D: GASOLINE RANGE							
Analyst: NSB							
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
EPA METHOD 8021B: VOLATILES							
Analyst: NSB							
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.

<p>Qualifiers:</p> <ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> 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, Inc.

Analytical Report
 Lab Order **1510D67**
 Date Reported: **10/30/2015**

CLIENT: APEX TITAN
Project: K-31 (Oct 2015)
Lab ID: 1510D67-003

Client Sample ID: CS-14
Collection Date: 10/28/2015 11:00:00 AM
Matrix: MEOH (SOIL) **Received Date:** 10/29/2015 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.
- 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
- RI 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 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.
- 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: **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° 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 # 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

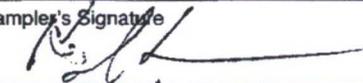
Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

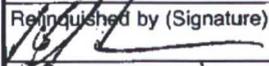
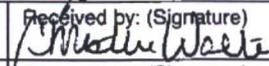
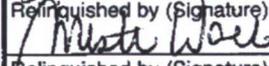
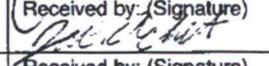
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location <u>Aztec</u>		Laboratory: <u>Hall</u> Address: <u>ABC</u>		ANALYSIS REQUESTED (Diagonal lines with text: APEX 8021 TTH GRO/DRO 8015)		Lab use only Due Date:	
		Contact: <u>Freeman</u> Phone:				Temp. of coolers when received (C°): <u>1.1</u>	
Project Manager <u>Summers</u>		PO/ISO #:				1 2 3 4 5 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	COED	G	Par	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								1510DU7-001
↓	↓	1030	↓			C.S-13								-002
↓	↓	1100	↓			C.S-14								-003
(Large diagonal line with handwritten text: N/A, N.C.)														

Turn around time Normal 25% Rush 50% Rush 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>Bill Tom Lowy</u> <u>N22745</u>
Relinquished by (Signature): 	Date: <u>10/23/15</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 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