

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pJK1424832159

3RP - 1011
ENTERPRISE PRODUCTS OPERATING, LLC

3R-1011

Release Report/ General Correspondence

Enterprise SJ

Date: Jul-Sep 2016

OIL CONS. DIV DIST. 3

District I 1625 N. French Dr., Hobbs, NM 88240 811 S. First St., Artesia, NM 88210 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural** Resources

JUI 28 2016

Form C-141 Revised August 8, 2011

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

1220 South St. Francis Dr. Santa Fe. NM 87505

Oil Conservation Division

Release Notification and Corrective Action OPERATOR Initial Report Name of Company: Enterprise Field Services LLC Contact: Thomas Long Telephone No. 505-599-2286 Address: 614 Reilly Ave, Farmington, NM 87401 Facility Type: Natural Gas Gathering Pipeline Facility Name: Trunk 3A Surface Owner: BLM Mineral Owner: BLM Serial Number: NM 0011010 LOCATION OF RELEASE East West **Unit Letter** Section Township Range Feet from North/South Feet from County 28N 12W the 389 10 Line the 65 Line San Juan Latitude 36.67456 Longitude -108.09921 NATURE OF RELEASE Type of Release: Natural Gas and Condensate Volume of Release 3.28 MCF Volume Recovered: None Gas: 10-15 BBLS condensate Source of Release: Internal Corrosion of the Pipeline Date and Hour of Occurrence: Date and Hour of Discovery: 4/23/2016 @ 11:45p.m. 4/23/2016 @ 12:40 p.m. Was Immediate Notice Given? If YES, To Whom? Cory Smith - NMOCD, Katherina Diemer - BLM, NRC Yes □ No □ Not Required By Whom? Thomas Long Date and Time 4/23/2016 @ 6:29 p.m. Was a Watercourse Reached? If YES, Volume ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully,* Fluids released flowed down rills and entered an ephemeral wash, Describe Cause of Problem and Remedial Action: On April 23, 2016, Enterprise technician discovered a gas leak from on the Trunk 3A pipeline. The pipeline was isolated, blown down, locked out and tagged out. Fluids released flowed down rills and entered an ephemeral wash. Repairs and remediation was complete on April 29, 2016. Describe Area Affected and Cleanup Action: The contaminant mass was removed by mechanical excavation. The final excavation measured approximately 37 feet long by 16 feet wide by 17 feet deep. Approximately 431 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party corrective action report is included with this "Final" C-141. 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. OIL CONSERVATION DIVISION Signature: Printed Name: Jon E. Fields Approved by Environmental Specialist: **A1796** Title: Director, Field Environmental Approval Date: **Expiration Date:** E-mail Address:jefields@eprod.com Conditions of Approval: Attached NCS1149331407 Date: Phone: (713)381-6684 Attach Additional Sheets If Necessary



CORRECTIVE ACTION REPORT

Property:

Trunk 3A (April 2016) Pipeline Release NW 1/4, S10 T28N R12W San Juan County, New Mexico

> July 12, 2016 Apex Project No. 725040112152

> > Prepared for:

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

Prepared by:

Ranee Deechilly Project Scientist

Kyle Summers, CPG Branch Manager/Senior Geologist

umms

TABLE OF CONTENTS

1.0	INTRO 1.1 1.2	DUCTION
2.0	SITE R	ANKING1
3.0	RESPO 3.1 3.2 3.3	Soil Excavation Activities 2 Soil Sampling Program 3 Laboratory Analytical Methods 3
4.0	DATA 4.1	EVALUATION
5.0	FINDIN	IGS AND RECOMMENDATIONS4
6.0	STANI	DARD OF CARE, LIMITATIONS, AND RELIANCE
LIST	OF AP	PENDICES
Appe	endix A	: Figure 1 – Topographic Map Figure 2 – Site Vicinity Map Figure 3 – Site Map with Soil Analytical Results Figure 4 – Site Map with Flow Path Soil Analytical Results
Appe	endix B	: Executed C-138 Solid Waste Acceptance Form
Appe	endix C	: Photographic Documentation
Appe	endix D	: Table
Appe	endix E	: Laboratory Analytical Reports & Chain of Custody Documentation



CORRECTIVE ACTION REPORT

Trunk 3A (April 2016) Pipeline Release NW 1/4, S10 T28N R12W San Juan County, New Mexico

Apex Project No. 725040112152

1.0 INTRODUCTION

1.1 Site Description & Background

The Trunk 3A pipeline release Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the northwest (NW) ¼ of Section 10, Township 28 North, Range 12 West, in rural San Juan County, New Mexico (36.67456N, 108.09921W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land managed by the Bureau of Land Management (BLM). The Site is surrounded by native vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise natural gas pipeline which traverses the area from north to south.

A surface release on the Trunk 3A pipeline was discovered on April 23, 2016. The surface expression of the release was identified by soil discoloration at the ground surface and two flow paths diverging east and west from the point of release. On April 26, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The release, which resulted from corrosion of the pipeline, was repaired by cleaning and clamping the pipe.

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 action 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 utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



Ranking	g Criteria	GARLES STATES	Ranking Score
	<50 feet	20	
Depth to Groundwater	50 to 99 feet	10	20
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water	Yes 20		0
source, or; <200 feet from private domestic water source.	No	0	
	<200 feet	20	
Distance to Surface Water Body	200 to 1,000 feet	10	20
	>1,000 feet	0	
Total Ran	king Score		40

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 40. This ranking is based on the following:

- No water wells were identified on the Office of the State Engineer (OSE) website. Based
 on distance to the ephemeral "blue line" wash, the depth to groundwater at the Site may
 be less than 50 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 result in a wellhead protection area ranking of "0".
- A portion of the flow path reached a dry ephemeral wash that is identified as a "blue line" on the United States Geological Society topographic map. This information supports a distance to surface water ranking of "20".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

A surface release on the Trunk 3A pipeline was discovered on April 23, 2016. The surface expression of the release was identified by soil discoloration at the ground surface and two flow paths diverging east and west from the point of release. On April 26, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The release, which resulted from corrosion of the pipeline, was repaired by cleaning and clamping the pipe. During corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Kyle Summers, an Apex environmental professional, provided environmental support.

The two flows paths were hand shoveled to remove hydrocarbon-affected soils, and four (4) confirmation flow path soil samples (FP-1 through FP-4) were collected for laboratory analysis to evaluate the initial hand shoveling efforts. Subsequent analytical results indicated that the southern-most portion of the east flow path still exhibited evidence of hydrocarbon impact. The southern-most portion of the west flow path was not sampled during this initial sampling phase due to elevated photoionization detector (PID) readings.

The primary pipeline excavation activities began on April 27, 2016 and were completed on April 29, 2016. Eight (8) confirmation soil samples (S-1 through S-8) were collected from the sidewalls and base of the excavation for laboratory analysis. Analytical results indicated that the north wall

Enterprise Field Services, LLC Corrective Action Report Trunk 3A (April 2016) Pipeline Release July 12, 2016



(S-3) still exhibited evidence of hydrocarbon impact, and on May 1, 2016 the north wall was over-excavated to remove remaining hydrocarbon-affected material, and confirmation soil sample (S-9) was collected from the over-excavated portion for laboratory analysis.

On June 8, 2016 the southern-most portions of the east and west flow path were further remediated by hand shoveling (outside of the ROW) and backhoe excavation (within the ROW), and five samples (FP-2R, FP-5 through FP-8) were collected for laboratory analysis.

The final primary excavation measured approximately 37 feet long by 16 feet at the maximum extents, with a total depth of approximately 17 feet bgs. Each flow path measured between 200 and 250 feet in length.

The lithology encountered during the completion of corrective action activities consisted of unconsolidated silty sands underlain by sandy shale/mudstone.

A total of approximately 431 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 form is provided in Appendix B. The primary 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 primary excavation in relation to the Enterprise pipelines (Appendix A). Figure 4 is a site map that indicates the approximate location of the flow paths in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of the impacted soils with a PID fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of nine (9) confirmation samples (S-1 through S-9) from the sidewalls and base of the primary excavation and nine (9) confirmation samples (FP-1 through FP-8, and FP-2R) from the flow paths for laboratory analysis. Soils associated with confirmation samples S-3 and FP-2 were removed by over-excavation.

Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final primary excavation dimensions (Appendix A). Figure 4 depicts the approximate location of the flow paths and shows the final soil sample locations.

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

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using 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 NMAC 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 practical quantitation limits (PQLs) associated with the final confirmation samples (S-1, S-2, S-4 through C-9, and FP-1, FP-2R, and FP-3 through FP-8) collected from the excavated area and flow paths to the OCD *RALs* for sites having a total ranking score of "40". Soils associated with confirmation samples S-3 and FP-2 were removed by over-excavation and transported to Envirotech for disposal/treatment, and are not included in the following discussion.

- The laboratory analyses of the confirmation samples collected from the soils remaining in
 place exhibited benzene concentrations from below the PQLs to 0.032 milligram per
 kilogram (mg/kg) (S-4), which are below the OCD RAL of 10 mg/kg.
- The laboratory analyses of the confirmation samples collected from the soils remaining in
 place exhibited total BTEX concentrations ranging from below the PQLs to 0.108 mg/kg
 (S-4), which are below the OCD RAL of 50 mg/kg.
- The laboratory analyses of confirmation samples collected from the soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below PQLs to 18 mg/kg (S-6 and FP-1), which are below the OCD RAL of 100 mg/kg for a Site ranking of "40".

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

5.0 FINDINGS AND RECOMMENDATIONS

The Trunk 3A pipeline release Site is located within the Enterprise pipeline ROW in the NW ¼ of Section 10, Township 28 North, Range 12 West, in rural San Juan 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 gathering facilities, including the Enterprise natural gas pipeline which traverses the area from north to south.

A surface release on the Trunk 3A pipeline was discovered on April 23, 2016. The surface expression of the release was identified by soil discoloration at the ground surface and two flow paths diverging east and west from the point of release. On April 26, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The release, which resulted from corrosion of the pipeline, was repaired by cleaning and clamping the pipe.

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.

Enterprise Field Services, LLC Corrective Action Report Trunk 3A (April 2016) Pipeline Release July 12, 2016



- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sands underlain by sandy shale/mudstone.
- The final primary excavation measured approximately 37 feet long by 16 feet at the maximum extents, with a total depth of approximately 17 feet bgs. Each flow path measured between 200 and 250 feet in length.
- Prior to backfilling, nine (9) confirmation soil samples from the primary excavation and nine (9) confirmation samples from the flow paths were collected from for laboratory analyses. Soils associated with soil samples S-3 and FP-2 were removed by over-excavation. Based on analytical results, soils remaining in place do not exhibit BTEX or TPH GRO/DRO concentrations above the OCD RALs for a site ranking of "40".
- A total of approximately 431 cubic yards of hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, NM for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to the approximate surrounding grade.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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.

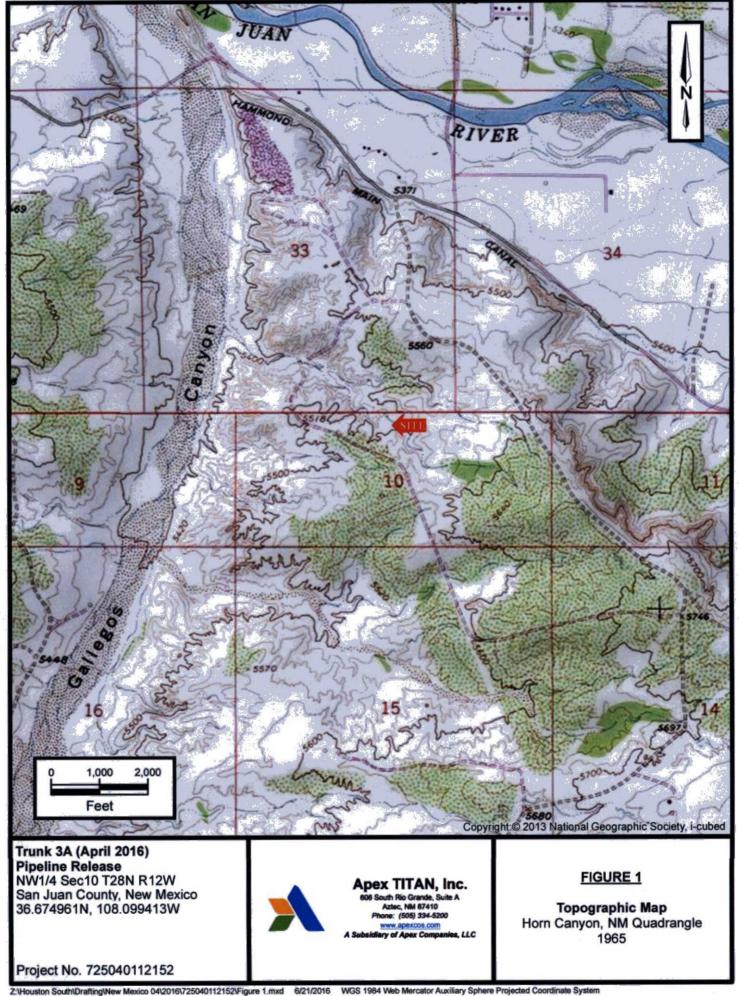
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence 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.

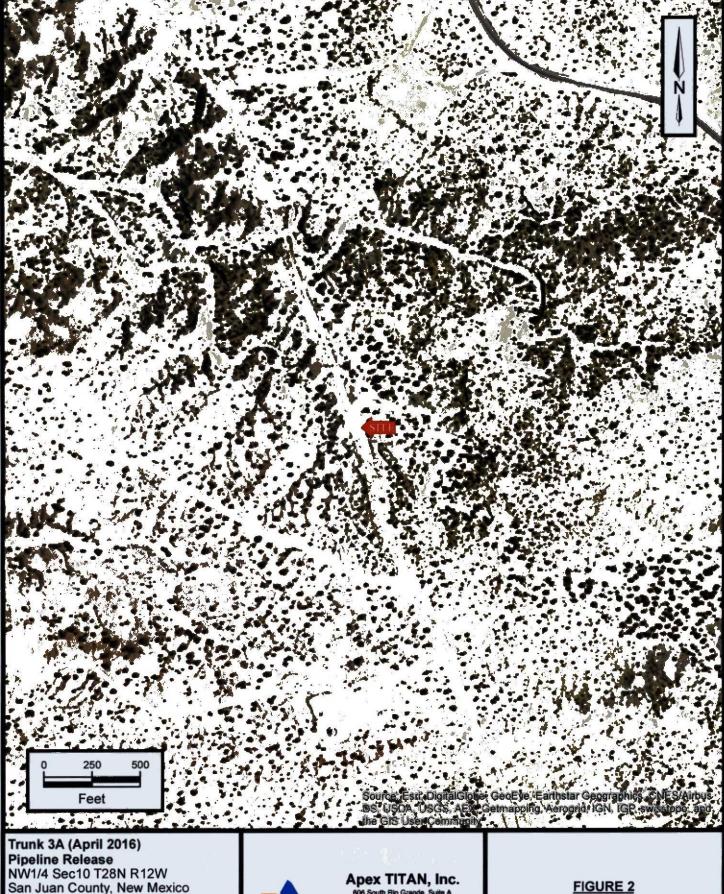
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution 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.



APPENDIX A

Figures





NW1/4 Sec10 T28N R12W San Juan County, New Mexico 36.674961N, 108.099413W

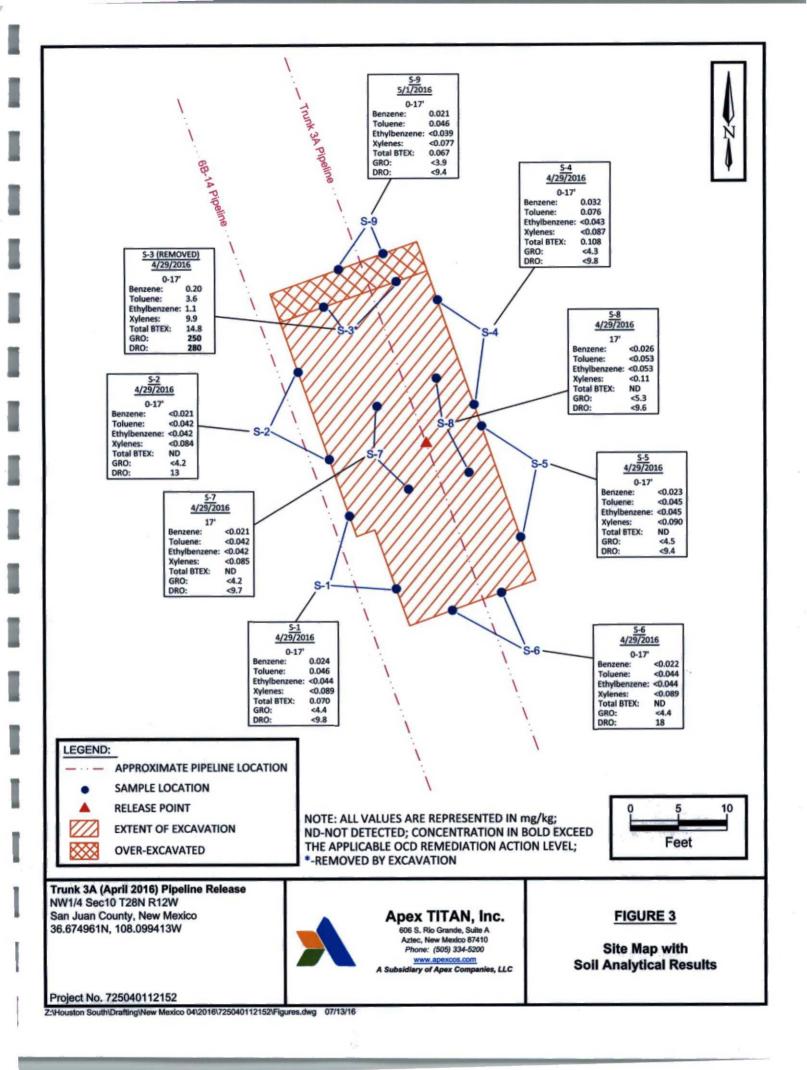


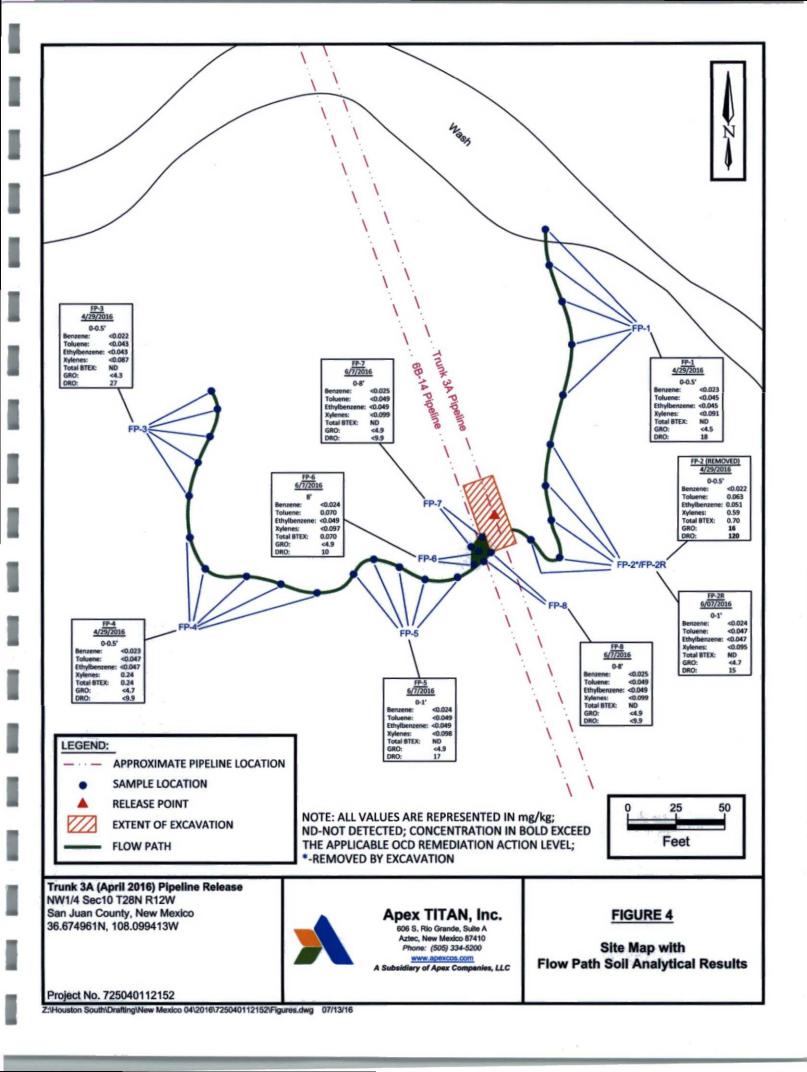
Apex TITAN, Inc.

06 South Rio Grande, Suite A Aztec, NM 87410 Phone: (505) 334-5200 llary of Apex Companies, LLC

Site Vicinity Map

Project No. 725040112152







APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

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 97857-0773 Form C-138 Revised August 1, 2011

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	REQUEST FOR ALTROVAL TO ACCEL I SOLID WASTE
1.	Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 April 2016
2.	Originating Site: Trunk 3A Pipeline
3.	Location of Material (Street Address, City, State or ULSTR): Unit Letter D Section 10 Township 28 North Range 12 West; 36.67456, -108.09921; San Juan County, NM
4. 5.	Source and Description of Waste: Hydrocarbon impacted soil associated with a pipeline release. Estimated Volume 100 (yd) bbls Known Volume (to be entered by the operator at the end of the haul) 395 (yd) bbls
5.	GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
	Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby
cer	PRINT & SIGN NAME tify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 gulatory 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
	Jan Ly 4-26-16 , representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
	nerator Signature
cor	replete the required testing/sign the Generator Waste Testing Certification.
ı.	, representative for Envirotech, Inc. do hereby certify that
rep	resentative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples
of t	we been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
19.	15.36 NMAC.
6.	Transporter: West States Energy Contractors, HEL, Dong Fonta, Flaing M
	Permitted Surface Waste Management Facility
	e and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011 ress of Facility: Hilltop, NM
Meth	nod of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other
Vas	te Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
RIN	NT NAME: Greg Crabtree TITLE: Environmental Manager DATE: 4/27/16
iiGì	NATURE: TELEPHONE NO.: 505-632-0615

District.1
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

9 7057- 0773 Form C-138
Revised August 1, 2011
*Surface Waste Management Facility Operator

*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 Avenue, Farmington, NM 87401
2.	Originating Site: Trunk 3A Pipeline June 2016
3.	Location of Material (Street Address, City, State or ULSTR): Unit Letter D Section 10 Township 28 North Range 12 West; 36.67456, -108.09921; San Juan County, NM
4. 5.	Source and Description of Waste: Hydrocarbon impacted soil associated with a pipeline release. Estimated Volume 100 (yd) bbls Known Volume (to be entered by the operator at the end of the haul) yd bbls
5.	GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
	Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby
cer	tify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 ulatory 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, <u>d</u>	6-6-16, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
	nerator Signature Inplete the required testing/sign the Generator Waste Testing Certification.
	Hy Congressentative for Envirotech, Inc. do hereby certify that
	resentative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples
of t	be been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
	15.36 NMAC. Transporter: West States Energy Contractors
Vam	D Permitted Surface Waste Management Facility e and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011 ress of Facility: Hilltop, NM
Meth	nod of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other
Was	te Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
PRIN	NT NAME: Greg Crabbee TITLE: Environmental Manage DATE: 6/1/16
	NATURE: TELEPHONE NO.: 505-632-0615



APPENDIX C

Photographic Documentation



Photograph 1

View of the release area, facing northwest.



Photograph 2

View of in-process corrective action activities, facing northwest.



Photograph 3

View of in-process corrective action activities, facing northwest.





Photograph 4

View of the final excavation, facing northwest.



Photograph 5

View of the east release flow path, facing northwest.



Photograph 6

View of the west release flow path, facing south.





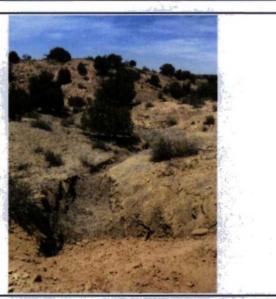
Photograph 7

View of the west release flow path, facing southeast.



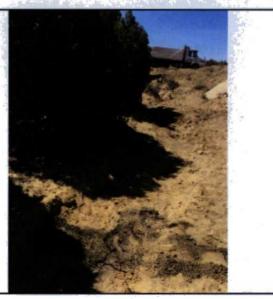
Photograph 8

View of the remediated west flow path, facing southwest.



Photograph 9

View of the remediated east flow path, facing south.





APPENDIX D

Table



TABLE 1 Trunk 3A (April 2016) 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)
	Charles and the second	Natural Resources	10	NE	NE	NE	50	1	00
				Samples Rem	oved by Excavation				
FP-2	4.29.16	0 to 0.5	<0.022	0.063	0.051	0.59	0.70	16	120
S-3	4.29.16	0 to 17	0.20	3.6	1.1	9.9	15	250	280
				Flow P	ath Samples				ALIES CONST
FP-1	4.29.16	0 to 0.5	<0.023	<0.045	<0.045	<0.091	ND	<4.5	18
FP-2R	6.07.16	0 to 1	<0.024	<0.047	<0.047	<0.095	ND	<4.7	15
FP-3	4.29.16	0 to 0.5	<0.022	< 0.043	<0.043	<0.087	ND	<4.3	27
FP-4	4.29.16	0 to 0.5	<0.023	<0.047	<0.047	0.24	0.24	<4.7	<9.9
FP-5	6.07.16	0 to 1	<0.024	< 0.049	<0.049	<0.098	ND	<4.9	17
FP-6	6.07.16	8	<0.024	0.070	<0.049	<0.097	0.070	<4.9	10
FP-7	6.07.16	0 to 8	<0.025	< 0.049	<0.049	<0.099	ND	<4.9	<9.9
FP-8	6.07.16	0 to 8	<0.025	< 0.049	<0.049	< 0.099	ND	<4.9	<9.9
BEAN WEB				Excavation Co	onfirmation Samples				
S-1	4.29.16	0 to 17	0.024	0.046	<0.044	<0.089	0.070	<4.4	<9.8
S-2	4.29.16	0 to 17	<0.021	<0.042	<0.042	<0.084	ND	<4.2	13
S-4	4.29.16	0 to 17	0.032	0.076	<0.043	<0.087	0.108	<4.3	<9.8
S-5	4.29.16	0 to 17	<0.023	<0.045	<0.045	<0.090	ND	<4.5	<9.4
S-6	4.29.16	0 to 17	<0.022	<0.044	<0.044	<0.089	ND	<4.4	18
S-7	4.29.16	17	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<9.7
S-8	4.29.16	17	<0.026	<0.053	<0.053	<0.11	ND	<5.3	<9.6
S-9	5.1.16	0 to 17	0.021	0.046	<0.039	<0.077	0.067	<3.9	<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



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 02, 2016

Kyle Summers
APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 3A April 2016

OrderNo.: 1604D26

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/30/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

suly

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1604D26

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-1

Project:

Trunk 3A April 2016

Collection Date: 4/29/2016 9:10:00 AM

Lab ID:

1604D26-001

Matrix: MEOH (SOIL)

Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/30/2016 9:18:52 AM	25085
Surr: DNOP	95.9	70-130	%Rec	1	4/30/2016 9:18:52 AM	25085
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	4/30/2016 9:41:24 AM	25083
Surr: BFB	98.9	80-120	%Rec	1	4/30/2016 9:41:24 AM	25083
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	0.024	0.022	mg/Kg	1	4/30/2016 9:41:24 AM	25083
Toluene	0.046	0.044	mg/Kg	1	4/30/2016 9:41:24 AM	25083
Ethylbenzene	ND	0.044	mg/Kg	1	4/30/2016 9:41:24 AM	25083
Xylenes, Total	ND	0.089	mg/Kg	1	4/30/2016 9:41:24 AM	25083
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/30/2016 9:41:24 AM	25083

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

- 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 Page 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-2

Project: Trunk 3A April 2016 Collection Date: 4/29/2016 9:15:00 AM

Lab ID: 1604D26-002 Matrix: MEOH (SOIL) Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	JME
Diesel Range Organics (DRO)	13	9.3	mg/Kg	1	4/30/2016 9:40:28 AM	25085
Surr: DNOP	92.5	70-130	%Rec	1	4/30/2016 9:40:28 AM	25085
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	4/30/2016 10:04:51 AM	25083
Surr: BFB	97.6	80-120	%Rec	1	4/30/2016 10:04:51 AM	25083
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.021	mg/Kg	1	4/30/2016 10:04:51 AM	25083
Toluene	ND	0.042	mg/Kg	1	4/30/2016 10:04:51 AM	25083
Ethylbenzene	ND	0.042	mg/Kg	1	4/30/2016 10:04:51 AM	25083
Xylenes, Total	ND	0.084	mg/Kg	1	4/30/2016 10:04:51 AM	25083
Surr: 4-Bromofluorobenzene	98.9	80-120	%Rec	1	4/30/2016 10:04:51 AM	25083

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

- 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 Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1604D26

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-3

Project: Trunk 3A April 2016 Collection Date: 4/29/2016 9:20:00 AM

Lab ID: 1604D26-003 Matrix: MEOH (SOIL) Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;				Analyst	JME
Diesel Range Organics (DRO)	280	9.6		mg/Kg	1	4/30/2016 10:01:56 AM	25085
Surr: DNOP	95.5	70-130		%Rec	1	4/30/2016 10:01:56 AM	25085
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	250	20		mg/Kg	5	4/30/2016 10:28:26 AM	25083
Surr: BFB	386	80-120	s	%Rec	5	4/30/2016 10:28:26 AM	25083
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.20	0.10		mg/Kg	5	4/30/2016 10:28:26 AM	25083
Toluene	3.6	0.20		mg/Kg	5	4/30/2016 10:28:26 AM	25083
Ethylbenzene	1.1	0.20		mg/Kg	5	4/30/2016 10:28:26 AM	25083
Xylenes, Total	9.9	0.41		mg/Kg	5	4/30/2016 10:28:26 AM	25083
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	5	4/30/2016 10:28:26 AM	25083

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

- 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 Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1604D26

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-4

Project: T

Trunk 3A April 2016

Collection Date: 4/29/2016 9:25:00 AM

Lab ID: 1604D

1604D26-004

Matrix: MEOH (SOIL) Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/30/2016 10:44:58 AM	25085
Surr: DNOP	89.6	70-130	%Rec	1	4/30/2016 10:44:58 AM	25085
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	4/30/2016 10:52:10 AM	25083
Surr: BFB	106	80-120	%Rec	1	4/30/2016 10:52:10 AM	25083
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.032	0.022	mg/Kg	1	4/30/2016 10:52:10 AM	25083
Toluene	0.076	0.043	mg/Kg	1	4/30/2016 10:52:10 AM	25083
Ethylbenzene	ND	0.043	mg/Kg	1	4/30/2016 10:52:10 AM	25083
Xylenes, Total	ND	0.087	mg/Kg	1	4/30/2016 10:52:10 AM	25083
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/30/2016 10:52:10 AM	25083

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

- 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 Page 4 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-5

Project:

Trunk 3A April 2016

Collection Date: 4/29/2016 9:30:00 AM

Lab ID:

1604D26-005

Matrix: MEOH (SOIL)

Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analys	t: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/30/2016 11:06:40 AI	M 25085
Surr: DNOP	93.5	70-130	%Rec	1	4/30/2016 11:06:40 Al	M 25085
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	4/30/2016 11:15:55 Al	M 25083
Surr: BFB	98.6	80-120	%Rec	1	4/30/2016 11:15:55 Al	M 25083
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	4/30/2016 11:15:55 Al	A 25083
Toluene	ND	0.045	mg/Kg	1	4/30/2016 11:15:55 Al	A 25083
Ethylbenzene	ND	0.045	mg/Kg	1	4/30/2016 11:15:55 Al	A 25083
Xylenes, Total	ND	0.090	mg/Kg	1	4/30/2016 11:15:55 Al	A 25083
Surr: 4-Bromofluorobenzene	98.3	80-120	%Rec	1	4/30/2016 11:15:55 Al	A 25083

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

- 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 Page 5 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/2/2016

4/30/2016 11:39:36 AM 25083

4/30/2016 11:39:36 AM 25083

CLIENT: APEX TITAN

Client Sample ID: S-6

Project: Lab ID:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Trunk 3A April 2016

1604D26-006

Collection Date: 4/29/2016 9:35:00 AM

Received Date: 4/30/2016 8:03:00 AM

Analyses Result PQL Qual Units DF Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME mg/Kg 4/30/2016 11:28:40 AM 25085 Diesel Range Organics (DRO) 18 10 Surr: DNOP 92.0 4/30/2016 11:28:40 AM 25085 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND 4/30/2016 11:39:36 AM 25083 Gasoline Range Organics (GRO) 4.4 mg/Kg Surr: BFB 97.9 %Rec 4/30/2016 11:39:36 AM 25083 80-120 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.022 mg/Kg 4/30/2016 11:39:36 AM 25083 ND 0.044 4/30/2016 11:39:36 AM 25083 Toluene mg/Kg ND 4/30/2016 11:39:36 AM 25083 Ethylbenzene 0.044 mg/Kg

0.089

80-120

mg/Kg

%Rec

ND

97.6

Matrix: MEOH (SOIL)

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range E
- Analyte detected below quantitation limits Page 6 of 11 J
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/2/2016

CLIENT: APEX TITAN

Client Sample ID: S-7

Project:

Trunk 3A April 2016

Collection Date: 4/29/2016 9:40:00 AM

Lab ID:

1604D26-007

Matrix: MEOH (SOIL)

Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analysi	: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/30/2016 11:50:27 AN	25085
Surr: DNOP	91.6	70-130	%Rec	1	4/30/2016 11:50:27 AM	25085
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	4/30/2016 12:03:20 PM	25083
Surr: BFB	100	80-120	%Rec	- 1	4/30/2016 12:03:20 PM	25083
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.021	mg/Kg	1	4/30/2016 12:03:20 PM	25083
Toluene	ND	0.042	mg/Kg	1	4/30/2016 12:03:20 PM	25083
Ethylbenzene	ND	0.042	mg/Kg	1	4/30/2016 12:03:20 PM	25083
Xylenes, Total	ND	0.085	mg/Kg	1	4/30/2016 12:03:20 PM	25083
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/30/2016 12:03:20 PM	25083

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

- * 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 Page 7 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-8

Project:

Trunk 3A April 2016

Collection Date: 4/29/2016 9:45:00 AM

Lab ID:

1604D26-008

Matrix: MEOH (SOIL)

Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analys	t: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/30/2016 12:12:10 PI	M 25085
Surr: DNOP	90.5	70-130	%Rec	1	4/30/2016 12:12:10 PI	M 25085
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.3	mg/Kg	1	4/30/2016 12:26:57 PI	M 25083
Surr: BFB	99.5	80-120	%Rec	1	4/30/2016 12:26:57 PI	M 25083
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.026	mg/Kg	1	4/30/2016 12:26:57 PI	M 25083
Toluene	ND	0.053	mg/Kg	1	4/30/2016 12:26:57 PI	M 25083
Ethylbenzene	ND	0.053	mg/Kg	1	4/30/2016 12:26:57 PI	M 25083
Xylenes, Total	ND	0.11	mg/Kg	1	4/30/2016 12:26:57 PI	M 25083
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	4/30/2016 12:26:57 PI	M 25083

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

- * 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 Page 8 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1604D26

02-May-16

Client:

APEX TITAN

Project:

Trunk 3A April 2016

Sample ID MB-25085

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 25085

RunNo: 33883

Analysis Date: 4/30/2016

10

Prep Date: 4/30/2016

SeqNo: 1044127

Units: mg/Kg

130

HighLimit

Qual

Diesel Range Organics (DRO)

Result ND 9.0

10.00

90.1

70

65.8

33.9

70

70

RPDLimit

Sample ID LCS-25085

SampType: LCS

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

Client ID: LCSS

Surr: DNOP

Batch ID: 25085

RunNo: 33883

Prep Date: 4/30/2016

Analysis Date: 4/30/2016

SeqNo: 1044133

Units: mg/Kg

PQL SPK value SPK Ref Val %REC Diesel Range Organics (DRO) 47 10 50.00 93.7

4.4

LowLimit

HighLimit

%RPD 136

RPDLimit Qual

Surr: DNOP

5.000

87.8

130

Sample ID 1604D26-001AMS

SampType: MS

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 33883

Client ID: S-1

Batch ID: 25085

Result

5.309

5.309

Units: mg/Kg

Analyte

Prep Date: 4/30/2016

Analysis Date: 4/30/2016

SeqNo: 1044531

Diesel Range Organics (DRO)

PQL SPK value SPK Ref Val 69 9.2 46.00 4.600

%REC LowLimit 138

HighLimit 141

130

RPDLimit Qual

Qual

Surr: DNOP

4.3

92.8

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

Client ID: S-1

SampType: MSD Batch ID: 25085

RunNo: 33883

Prep Date: 4/30/2016

Sample ID 1604D26-001AMSD

Analysis Date: 4/30/2016

SeqNo: 1044532

Units: mg/Kg

Analyte Diesel Range Organics (DRO)

PQL 49 9.6

48.03

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Surr: DNOP

4.3 4.803 91.1 89.9 33.9 70

141 130 33.2 0

20 0

Qualifiers:

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

Page 9 of 11

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1604D26

02-May-16

Client:

APEX TITAN

Project:

Trunk 3A April 2016

Sample ID MB-25083

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

80

80

Client ID: PBS

Batch ID: 25083

RunNo: 33902

Prep Date: 4/29/2016

Analysis Date: 4/30/2016

SegNo: 1044407

Units: mg/Kg

120

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

Gasoline Range Organics (GRO) Surr: BFB

ND 5.0

970

1100

1000

1000

97.1

HighLimit %RPD Qual

Sample ID LCS-25083

SampType: LCS

RunNo: 33902

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 25083

Prep Date: 4/29/2016

Analysis Date: 4/30/2016

SeqNo: 1044408

106

Units: mg/Kg

120

120

Result 24 Gasoline Range Organics (GRO)

PQL 5.0 25.00

SPK value SPK Ref Val %REC LowLimit 94.7

HighLimit

%RPD **RPDLimit** Qual

RPDLimit

Surr: BFB

Sample ID 1604D26-001AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-1

Batch ID: 25083

PQL

RunNo: 33902

143

120

Prep Date:

Analysis Date: 4/30/2016

SeaNo: 1044410

Units: mg/Kg HighLimit

Analyte Gasoline Range Organics (GRO)

22 940

Result

SPK value SPK Ref Val 44 22 20

888.1

%REC 0 98.7

593 80

LowLimit

%RPD **RPDLimit** Qual

Surr: BFB

Sample ID 1604D26-001AMSD

SampType: MSD

PQL

44

TestCode: EPA Method 8015D: Gasoline Range RunNo: 33902

106

Client ID: S-1 Prep Date:

Batch ID: 25083

95.5

107

Analyte

Result

Analysis Date: 4/30/2016

SeqNo: 1044411

Units: mg/Kg HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Surr. BFB

21 950 22.20 888.1

SPK value SPK Ref Val %REC

59.3 80

LowLimit

120

3.29 0

%RPD

20 0

Qualifiers:

H

R

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Page 10 of 11

- Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1604D26

02-May-16

Client:

APEX TITAN

Project:

Trunk 3A April 2016

Sample ID MB-25083

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

Batch ID: 25083

RunNo: 33902

Prep Date: 4/29/2016 Analysis Date: 4/30/2016

PQL

SeqNo: 1044432

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit Qual

Qual

RPDLimit

Analyte Benzene Toluene

Xylenes, Total

Ethylbenzene

ND 0.025 ND 0.050 ND 0.050 ND 0.10

98.6

80

120

Sample ID LCS-25083

Prep Date: 4/29/2016

Client ID: LCSS

Surr: 4-Bromofluorobenzene

SampType: LCS

0.99

RunNo: 33902

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 8021B: Volatiles

Batch ID: 25083

Analysis Date: 4/30/2016 SeqNo: 1044433

Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	
Benzene	0.86	0.025	1.000	0	86.4	75.3	123	
Toluene	0.86	0.050	1.000	0	85.6	80	124	
Ethylbenzene	0.84	0.050	1.000	0	84.0	82.8	121	
Xylenes, Total	2.5	0.10	3.000	0	83.9	83.9	122	
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120	

1.000

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Page 11 of 11

- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified



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 Numb	er: 1604D26		RcptNo:	1
Received by/date: (# 01/20/14				
Logged By: Lindsay Mangin 4/30/2016 8:03:00 A	м	of youngo		
Completed By: Lindsay Mangin 4/30/2016 8:12:46 A	м	ALMIO		
Reviewed By: AB 4/30/16 084		000		
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			
<u>Log In</u>				
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 🗹	# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	for pH:	or >12 unless note
(Note discrepancies on chain of custody)		No 🗆	Adjusted?	or >12 unless note
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆		
14. Is it clear what analyses were requested?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:		Phone Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	l east Pata I	Signed By	ı	
1 3.8 Good Yes	Sea Date	Signed by		

CHAIN OF CUSTODY RECORD Lab use only ANALYSIS Laboratory: Hall Due Date: REQUESTED APEX Temp, of coolers. when received (C°):5, 8 Phone: 5 Project Manager PO/SO#: Trunk 3A (April 2016 No/Type of Containers Avg 11L Slass Jar Pro Matrix Time Identifying Marks of Sample(s) Lab Sample ID (Lab Use Only) 29/4 0910 5-1 0915 0920 0925 0930 0935 200% Rush 20+ 430 Turn around time ☐ 25% Rush ☐ 50% Rush MON-AFE#N 25372 Saturday Results □ Normal Received by: (Signature) Relinquished by (Signature) Time: 1408 Refinquished by (Signature) Date: 1/24/16 Received by: (Signature) Date: Time: 280 Received by (Signature) Relinquished by (Signature) Time: Time: Relinquished by (Signature) Date: Time: Received by: (Signature) Date: Time:

C - Charcoal tube

P/O - Plastic or other

SL - sludge

0.01

A - Air Bag

250 ml - Glass wide mouth

L - Liquid

W - Water S - Soil SD -A/G - Amper / Or Glass 1 Liter

SD - Solid

Matrix

Container

WW - Wastewater

VOA - 40 ml vial



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

May 02, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A

Aztec, NM 87410 TEL: (903) 821-5603

FAX

RE: Trunk 3A April 2016

OrderNo.: 1604D27

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/30/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1604D27

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: FP-1

Project:

Trunk 3A April 2016

enent Sample 1D: 11-1

Collection Date: 4/29/2016 10:15:00 AM

Lab ID: 160

1604D27-001

Matrix: MEOH (SOIL)

Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	18	9.2	mg/Kg	1	4/30/2016 2:22:59 PM	25085
Surr: DNOP	93.6	70-130	%Rec	1	4/30/2016 2:22:59 PM	25085
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	4/30/2016 4:45:12 PM	25083
Surr: BFB	101	80-120	%Rec	1	4/30/2016 4:45:12 PM	25083
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	4/30/2016 4:45:12 PM	25083
Toluene	ND	0.045	mg/Kg	1	4/30/2016 4:45:12 PM	25083
Ethylbenzene	ND	0.045	mg/Kg	1	4/30/2016 4:45:12 PM	25083
Xylenes, Total	ND	0.091	mg/Kg	1	4/30/2016 4:45:12 PM	25083
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/30/2016 4:45:12 PM	25083

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

- 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 Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1604D27

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Project:

Lab ID:

Trunk 3A April 2016

1604D27-002

Client Sample ID: FP-2

cheme Sample 115.11 2

Collection Date: 4/29/2016 10:20:00 AM

Matrix: MEOH (SOIL) Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3				Analyst	JME
Diesel Range Organics (DRO)	120	9.2		mg/Kg	1	4/30/2016 2:44:50 PM	25085
Surr: DNOP	101	70-130		%Rec	1	4/30/2016 2:44:50 PM	25085
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	16	4.4		mg/Kg	1	4/30/2016 5:08:34 PM	25083
Surr: BFB	177	80-120	S	%Rec	1	4/30/2016 5:08:34 PM	25083
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.022		mg/Kg	1	4/30/2016 5:08:34 PM	25083
Toluene	0.063	0.044		mg/Kg	1	4/30/2016 5:08:34 PM	25083
Ethylbenzene	0.051	0.044		mg/Kg	1	4/30/2016 5:08:34 PM	25083
Xylenes, Total	0.59	0.088		mg/Kg	1	4/30/2016 5:08:34 PM	25083
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	4/30/2016 5:08:34 PM	25083

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

- 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 Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1604D27

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: FP-3

Project:

Trunk 3A April 2016

Collection Date: 4/29/2016 10:25:00 AM

Lab ID: 16

1604D27-003

Matrix: MEOH (SOIL)

Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	27	9.6	mg/Kg	1	4/30/2016 3:06:35 PM	25085
Surr: DNOP	86.6	70-130	%Rec	1	4/30/2016 3:06:35 PM	25085
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	4/30/2016 5:31:58 PM	25083
Surr: BFB	104	80-120	%Rec	1	4/30/2016 5:31:58 PM	25083
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	4/30/2016 5:31:58 PM	25083
Toluene	ND	0.043	mg/Kg	1	4/30/2016 5:31:58 PM	25083
Ethylbenzene	ND	0.043	mg/Kg	1	4/30/2016 5:31:58 PM	25083
Xylenes, Total	ND	0.087	mg/Kg	1	4/30/2016 5:31:58 PM	25083
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	4/30/2016 5:31:58 PM	25083

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

- 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 Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1604D27

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: FP-4

Project:

Trunk 3A April 2016

Collection Date: 4/29/2016 10:30:00 AM

Lab ID:

1604D27-004

Matrix: MEOH (SOIL)

Received Date: 4/30/2016 8:03:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/30/2016 3:28:26 PM	25085
Surr: DNOP	97.2	70-130	%Rec	1	4/30/2016 3:28:26 PM	25085
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/30/2016 5:55:25 PM	25083
Surr: BFB	103	80-120	%Rec	1	4/30/2016 5:55:25 PM	25083
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	4/30/2016 5:55:25 PM	25083
Toluene	ND	0.047	mg/Kg	1	4/30/2016 5:55:25 PM	25083
Ethylbenzene	ND	0.047	mg/Kg	1	4/30/2016 5:55:25 PM	25083
Xylenes, Total	0.24	0.093	mg/Kg	1	4/30/2016 5:55:25 PM	25083
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	4/30/2016 5:55:25 PM	25083

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

- 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 Page 4 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604D27

02-May-16

Client:

APEX TITAN

Project:

Trunk 3A April 2016

Sample ID MB-25085

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 25085

RunNo: 33883

Prep Date: 4/30/2016

Analysis Date: 4/30/2016

Units: mg/Kg

Analyte

SeqNo: 1044127

SPK value SPK Ref Val %REC LowLimit

HighLimit

Qual

RPDLimit

Diesel Range Organics (DRO)

9.0

10.00

90.1

%RPD

Surr: DNOP

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

130

Sample ID LCS-25085

Client ID: LCSS

Batch ID: 25085

PQL

10

RunNo: 33883

LowLimit

70

Prep Date: 4/30/2016

Analysis Date: 4/30/2016

SeqNo: 1044133

Units: mg/Kg

Analyte Diesel Range Organics (DRO) Result 47 SPK value SPK Ref Val 50.00

%REC 93.7

65.8

%RPD **RPDLimit** Qual

4.4

5.000

87.8

70

136 130

Page 5 of 7

Surr: DNOP

HighLimit

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604D27

02-May-16

Client:

APEX TITAN

Project:

Trunk 3A April 2016

Sample ID MB-25083

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 25083

RunNo: 33902

Prep Date: 4/29/2016 Analysis Date: 4/30/2016

PQL

5.0

SeqNo: 1044407

Units: mg/Kg

Analyte

ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

120

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

970

1000

97.1

80

%RPD

Sample ID LCS-25083

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 25083

RunNo: 33902

Prep Date: 4/29/2016

Analysis Date: 4/30/2016

5.0

SeaNo: 1044408

Units: mg/Kg

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

Result PQL

25.00

SPK value SPK Ref Val

94.7

%REC

80

120

Surr: BFB

24 1100

1000

106

80

120

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

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

0.86

0.86

0.84

2.5

1.1

0.025

0.050

0.050

0.10

1.000

1.000

1.000

3.000

1.000

WO#:

1604D27

02-May-16

Client:

APEX TITAN

Project:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Trunk 3A April 2016

Traine 3			
Sample ID MB-25083	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles	
Client ID: PBS	Batch ID: 25083	RunNo: 33902	
Prep Date: 4/29/2016	Analysis Date: 4/30/2016	SeqNo: 1044432 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Benzene	ND 0.025		
Toluene	ND 0.050		
Ethylbenzene	ND 0.050		
Xylenes, Total	ND 0.10		
Surr: 4-Bromofluorobenzene	0.99 1.000	98.6 80 120	
Sample ID LCS-25083	SampType: LCS	TestCode: EPA Method 8021B: Volatiles	
Client ID: LCSS	Batch ID: 25083	RunNo: 33902	
Prep Date: 4/29/2016	Analysis Date: 4/30/2016	SeqNo: 1044433 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual

0

0

0

0

86.4

85.6

84.0

83.9

105

75.3

82.8

83.9

80

80

123

124

121

122

120

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

Page 7 of 7



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

APEX AZTEC Work Order Number: 1604D27 RcptNo: 1 Client Name: 04/20/16 Received by/date: 4/30/2016 8:03:00 AM Logged By: Lindsay Mangin 4/30/2016 8:19:14 AM **Lindsay Mangin** Completed By: 4/30/16 0845 Reviewed By: A)B Chain of Custody No 🗌 Not Present Yes 1. Custody seals intact on sample bottles? Yes V No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No L NA L Yes V 4. Was an attempt made to cool the samples? No 🗌 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes V Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? Yes V No 🗌 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes | No V 9. Was preservative added to bottles? Yes 🗌 No 🗌 No VOA Vials 10. VOA vials have zero headspace? Yes 🗆 No V 11. Were any sample containers received broken? # of preserved bottles checked Yes V No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13 Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 14, Is it clear what analyses were requested? Checked by: No 🗌 Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16, Was client notified of all discrepancies with this order? Person Notified: Date Via: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C | Condition | Seal Infact | Seal No | Seal Date Good

				CHAIN OF CUSTODY RECORD
APEX Office Location Aztec Project Manager K. Su m	# PO/SO#:	dy Freeman 1745-3975	ANALYSIS REQUESTED	Lab use only Due Date: Temp. of coolers when received (C*): S. S 1 2 3 4 5 Page of
Sampler's Name	Sampler's Signature		20 C	
Proj. No. Project Name	3A (April 201	No/Type of Containers	30	
CG		Pro	6 K	Lab Sample ID (Lab Use Only)
	EN-1		XX	1604027-001
	P-2			1604027-001 -002 -003
	P-3			-003
V V 1030 + F	P-4	4	Ψ γ	-004
	NE	4		
	NI			
	1041			
Turn around time	The same of the sa	% Rush Sat 4/30		
Retinbushed by (Signature)	Time: Received b	ov: (Signature) Date: 4/29/L	Time: NOTES PROD	N25372
Relinquished by (Signature) Relinquished by (Signature) Dat	911 1744	by: (Signature) Date:	Time: Monday	N25372 Results
Relinquished by (Signature) Date	te: Time: Received b	oy. (Signature) Date:	Time:	
	- Water S - Soil SD - Solid 5 - Amber / Or Glass 1 Liler	L - Liquid A - Air Bag C - Cha 250 ml - Glass wide mouth P/O - P	rcoal tube SL - sludge D - Oil astic or other	



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

May 04, 2016

Kyle Summers

APEX TITAN

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 3A

OrderNo.: 1605064

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/3/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1605064

Date Reported: 5/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-9

Project: Trunk 3A

Collection Date: 5/1/2016 8:00:00 AM

Lab ID:

1605064-001

Matrix: MEOH (SOIL)

Received Date: 5/3/2016 8:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analyst	: КЈН
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/3/2016 12:45:38 PM	25118
Surr: DNOP	74.2	70-130	%Rec	1	5/3/2016 12:45:38 PM	25118
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	5/3/2016 12:35:12 PM	A33952
Surr: BFB	101	80-120	%Rec	1	5/3/2016 12:35:12 PM	A33952
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	0.021	0.019	mg/Kg	1	5/3/2016 12:35:12 PM	B33952
Toluene	0.046	0.039	mg/Kg	1	5/3/2016 12:35:12 PM	B33952
Ethylbenzene	ND	0.039	mg/Kg	1	5/3/2016 12:35:12 PM	B33952
Xylenes, Total	ND	0.077	mg/Kg	1	5/3/2016 12:35:12 PM	B33952
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	5/3/2016 12:35:12 PM	B33952

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

- 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 Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605064

04-May-16

Client:

APEX TITAN

Project:

Trunk 3A

Sample ID LCS-25093

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS

Prep Date: 5/2/2016

Batch ID: 25093

RunNo: 33949

4.3

Analysis Date: 5/3/2016 POL

SeqNo: 1045935

Units: %Rec

Analyte Surr: DNOP Result

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC

LowLimit

65.8

70

HighLimit %RPD 130

Qual

Sample ID LCS-25118

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

85.2

Client ID: LCSS

Batch ID: 25118

PQL

10

RunNo: 33949

97.1

59.5

HighLimit

%RPD

%RPD

%RPD

Prep Date: 5/3/2016

Analysis Date: 5/3/2016

Result

49

3.0

9.5

SeqNo: 1045936

Units: mg/Kg

RPDLimit

RPDLimit

Qual

S

Diesel Range Organics (DRO) Sur: DNOP

Sample ID MB-25093

SampType: MBLK

Batch ID: 25093

5.000

50.00

5.000

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 33949

130

136

130

Prep Date: 5/2/2016

Client ID: PBS

Analysis Date: 5/3/2016

SegNo: 1045937

94.6

Units: %Rec

Analyte Surr: DNOP

SPK value SPK Ref Val %REC

HighLimit

RPDLimit

Qual

Sample ID MB-25118

Client ID: PBS

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 25118

10.00

RunNo: 33949

Prep Date: 5/3/2016

Analysis Date: 5/3/2016

PQL

SeqNo: 1045938

Analyte

10

Units: mg/Kg **HighLimit**

RPDLimit

Qual

Diesel Range Organics (DRO) Surr: DNOP

Result ND 7.2

10.00

71.6

SPK value SPK Ref Val %REC LowLimit

70

130

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Page 2 of 4

- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605064

04-May-16

Client:

APEX TITAN

Project:

Trunk 3A

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: A33952 Analysis Date: 5/3/2016

PQL

5.0

RunNo: 33952

SeqNo: 1046270 Units: mg/Kg

Prep Date: Analyte

Gasoline Range Organics (GRO)

ND 1000

1000

100

80

%RPD **RPDLimit** Qual

Surr: BFB

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 33952

LowLimit

LowLimit

80

120

120

Prep Date:

Client ID: LCSS

Batch ID: A33952 Analysis Date: 5/3/2016

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

SeqNo: 1046271

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO)

PQL SPK value SPK Ref Val %REC 5.0 25.00

1000

88.9 107

80 80 **HighLimit** %RPD 120

RPDLimit Qual

Surr: BFB

Sample ID MB-25102

1100

Result

990

22

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Prep Date: 5/2/2016

PBS

Batch ID: 25102 Analysis Date: 5/3/2016 RunNo: 33952

SeqNo: 1046281

Units: %Rec

HighLimit

120

RPDLimit

Qual

Analyte Surr: BFB

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Sample ID LCS-25102

Batch ID: 25102

RunNo: 33952

99.5

Units: %Rec

Prep Date: 5/2/2016 Analyte

Analysis Date: 5/3/2016 PQL

SeqNo: 1046282

%RPD

%RPD

RPDLimit Qual

Surr: BFB

Result 1100

1000

1000

LowLimit

HighLimit 120

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH Not In Range
- Reporting Detection Limit Sample container temperature is out of limit as specified
- Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605064

04-May-16

Client:

APEX TITAN

Project:

Trunk 3A

Sample ID 5ML RB

SampType: MBLK

PQL

0.025

TestCode: EPA Method 8021B: Volatiles

Client ID: PRS

Batch ID: B33952

RunNo: 33952

HighLimit

Prep Date:

Analysis Date: 5/3/2016

ND

1.0

Result

1.0

0.96

SegNo: 1046344

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

%RPD

RPDLimit

Qual

Analyte Benzene

Toluene Ethylbenzene

0.050 ND ND 0.050

ND 0.10

1.000

103

80

120

Sample ID 100NG BTEX LCS

Surr: 4-Bromofluorobenzene

SampType: LCS

%REC

102

112

TestCode: EPA Method 8021B: Volatiles

Client ID: Prep Date:

Xvlenes, Total

LCSS

Batch ID: B33952

Analysis Date: 5/3/2016

PQL 0.025

0.050

RunNo: 33952 SeqNo: 1046345

LowLimit

Units: mg/Kg

Qual

Analyte Benzene Toluene

Ethylbenzene Xylenes, Total

0.91 0.050 2.7 0.10 1.1

1.000 1.000 3.000 1.000

1.000

SPK value SPK Ref Val

95.5 0 0 90.8 0 89.4

0

75.3 80 82.8

83.9

80

80

123 124 121

122

120

HighLimit

RPDLimit

Surr: 4-Bromofluorobenzene

Sample ID MB-25102

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: Prep Date:

Batch ID: 25102

RunNo: 33952

Units: %Rec

120

5/2/2016

Analysis Date: 5/3/2016 PQL

SeqNo: 1046354

LowLimit

RPDLimit

Result

SPK value SPK Ref Val 1.000

%REC

HighLimit

%RPD

%RPD

%RPD

Qual

Surr: 4-Bromofluorobenzene

1.0

SampType: LCS

104

TestCode: EPA Method 8021B: Volatiles RunNo: 33952

Prep Date:

Client ID: LCSS 5/2/2016

Sample ID LCS-25102

Batch ID: 25102

Analysis Date: 5/3/2016

SegNo: 1046361

104

Units: %Rec

RPDLimit Qual

Analyte

Surr: 4-Bromofluorobenzene

Result 1.0

1.000

SPK value SPK Ref Val

%REC

80

LowLimit

HighLimit 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- ND Not Detected at the Reporting Limit RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

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

Page 4 of 4

- Sample container temperature is out of limit as specified



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	: 16050	64		RcptNo: 1	
Received by/date: AT	05/03/16					
Logged By: Joe Archuleta	5/3/2016 8:05:00 AM			200		
Completed By: Joe Archuleta	5/3/2016 8:24:00 AM			Jean Jean		
Reviewed By:	05/03/16			ŕ		
Chain of Custody	1 1					
Custody seals intact on sample bottle	es?	Yes		No [.]	Not Present	
2. Is Chain of Custody complete?		Yes		No 🗔	Not Present	
3. How was the sample delivered?		Cour	ier			
Log In						
4. Was an attempt made to cool the sa	imples?	Yes		No 🗀	NA []	
5. Were all samples received at a temp	perature of >0° C to 6.0°C	Yes		No []	NA []	
6. Sample(s) in proper container(s)?		Yes		No 🗆		
7. Sufficient sample volume for indicate	ed 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 LJ	No VOA Vials	
11. Were any sample containers receive	ed broken?	Yes		No 🐼	# of preserved	
			-	(7)	bottles checked	
 Does paperwork match bottle labels' (Note discrepancies on chain of cust 		Yes		No I. J	for pH: (<2 or >12 unle	ss no
13. Are matrices correctly identified on C		Yes		No [.]	Adjusted?	
14. Is it clear what analyses were reques		Yes		No TT		
 Were all holding times able to be me (If no, notify customer for authorization) 		Yes		No L	Checked by:	
Special Handling (if applicable)						
16. Was client notified of all discrepance		Yes		No []	NA 🗺	
Person Notified:	Date	er attack for Contra	E			
By Whom:	Via:	☐ eMa	ail [Phone Fax	[] In Person	
Regarding:		Carlotte and Alberta	L-RUMENT OF	COLUMN TO A STATE OF THE PARTY	Children almatian area - topoly legalegous for \$1 limit	
Client Instructions:	TO CHAIR AND A TOTAL PARTIES AND		iki funa milah	The state of the s	indian of distributed distribute of the control of	
17. Additional remarks:						
10 0-1-1-1-1						
18. Cooler Information Cooler No Temp °C Condition	on Seal Intact Seal No	Seal Da	te I	Signed By	1	
Cooler to Fremp C Conditi	on Joen mact Joen 140	Jean Di		Oigiled by	1	

																-					U	IAIN	UF U	19 ICI	UT HE	CUNU
Proje	PEX se Location sect Mana	on A		ec 1N		Addre	0#: _	Alb A.	uqu	uqu		M			REC	LYSII CHES									e: coolers eived (C*)	5
Proj.	No.		Proje	ct Nam		3A	-			No/T	ype of C	Contain	ers		d	8000	7 /	/	//	/	/					
Matrix		Time	Comp	G		Marks of Sar	mple(s)	Start	End	VOA	ANG TEL	250 ml	Glass	D/O	/					1			Lab San	nple ID (L	ab Use O	niy)
5	91/16	0800	X		S	-9							1		X	X					1	1605	06	4 .	-001	
	_	_														+										
					_		1	15	= ,																	
							3	J	1							+	+				+					
								1																		
																-				\vdash	+					
Turn	around time	Nor	mal	T) 269	6 Rush	⊒ 50% Ru	mb 5	100%	Dueb	-	ne D	2														
Relia	pulsyed by	(Signature)		·57	2/14	Time: 758	Beceiv	ved by:	(Signa	iture)		15	Date /2//	6	Tin 75		NOTE	S:								
Relin	buished by	(Signature) (Signature)	elt		te:	Time: 1837 Time:	111	ved by:	1	a	_	0	Date 5/03 Date	116	080	ne:						nlor				
U	¥.	(Signature)			ite:	Time:	1	ved by:			,		Date			ne:			hm	APE	2	253	72			
Matrix Conta	W	W - Wastewa OA - 40 ml vis	ter	W	- Water	S - Soil r / Or Glass 1	SD - So Liter	ilid L	- Liquid	d A	- Air B	ag outh	C:	Char Char	rcoal tul	be other	SL - slu	ıdge	0-0	Dil .						



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

June 13, 2016

Kyle Summers

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 3A

OrderNo.: 1606345

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/8/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

sold

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1606345

Date Reported: 6/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: FP-2R

Project:

Trunk 3A

Collection Date: 6/7/2016 11:00:00 AM

Lab ID:

1606345-001

Matrix: SOIL

Received Date: 6/8/2016 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3	5. **		Analys	t: JME
Diesel Range Organics (DRO)	15	9.2	mg/Kg	1	6/10/2016 7:16:38 PM	25735
Surr: DNOP	95.9	70-130	%Rec	1	6/10/2016 7:16:38 PM	25735
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/9/2016 3:02:13 PM	25728
Surr: BFB	108	80-120	%Rec	1	6/9/2016 3:02:13 PM	25728
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	6/9/2016 3:02:13 PM	25728
Toluene	ND	0.047	mg/Kg	1	6/9/2016 3:02:13 PM	25728
Ethylbenzene	ND	0.047	mg/Kg	1	6/9/2016 3:02:13 PM	25728
Xylenes, Total	ND	0.095	mg/Kg	1	6/9/2016 3:02:13 PM	25728
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	6/9/2016 3:02:13 PM	25728

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

- 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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1606345

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/13/2016

CLIENT: APEX TITAN

Client Sample ID: FP-5

Project:

Trunk 3A

Collection Date: 6/7/2016 1:00:00 PM

1606345-002 Lab ID:

Matrix: SOIL

Received Date: 6/8/2016 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	17	9.4	mg/Kg	1	6/10/2016 7:38:17 PM	25735
Surr: DNOP	96.9	70-130	%Rec	1	6/10/2016 7:38:17 PM	25735
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/9/2016 5:00:08 PM	25728
Surr: BFB	106	80-120	%Rec	1	6/9/2016 5:00:08 PM	25728
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/9/2016 5:00:08 PM	25728
Toluene	ND	0.049	mg/Kg	1	6/9/2016 5:00:08 PM	25728
Ethylbenzene	ND	0.049	mg/Kg	1	6/9/2016 5:00:08 PM	25728
Xylenes, Total	ND	0.098	mg/Kg	1	6/9/2016 5:00:08 PM	25728
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/9/2016 5:00:08 PM	25728

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 8 J

- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1606345

Date Reported: 6/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: FP-6

Project:

Trunk 3A

Collection Date: 6/7/2016 1:05:00 PM

Lab ID: 1606345-003

Matrix: SOIL

Received Date: 6/8/2016 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analys	t: JME
Diesel Range Organics (DRO)	10	10	mg/Kg	1	6/10/2016 8:00:00 PM	25735
Surr: DNOP	97.9	70-130	%Rec	1	6/10/2016 8:00:00 PM	25735
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/9/2016 5:23:36 PM	25728
Surr: BFB	107	80-120	%Rec	1	6/9/2016 5:23:36 PM	25728
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	6/9/2016 5:23:36 PM	25728
Toluene	0.070	0.049	mg/Kg	1	6/9/2016 5:23:36 PM	25728
Ethylbenzene	ND	0.049	mg/Kg	1	6/9/2016 5:23:36 PM	25728
Xylenes, Total	ND	0.097	mg/Kg	1	6/9/2016 5:23:36 PM	25728
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/9/2016 5:23:36 PM	25728

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

- 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606345

Date Reported: 6/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: FP-7

Project:

Trunk 3A

Collection Date: 6/7/2016 1:10:00 PM

Lab ID:

1606345-004

Matrix: SOIL

Received Date: 6/8/2016 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/10/2016 8:21:52 PM	25735
Surr: DNOP	97.1	70-130	%Rec	1	6/10/2016 8:21:52 PM	25735
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/9/2016 5:47:10 PM	25728
Surr: BFB	106	80-120	%Rec	1	6/9/2016 5:47:10 PM	25728
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/9/2016 5:47:10 PM	25728
Toluene	ND	0.049	mg/Kg	1	6/9/2016 5:47:10 PM	25728
Ethylbenzene	ND	0.049	mg/Kg	1	6/9/2016 5:47:10 PM	25728
Xylenes, Total	ND	0.099	mg/Kg	1	6/9/2016 5:47:10 PM	25728
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/9/2016 5:47:10 PM	25728

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

- 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 Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1606345

Date Reported: 6/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Project: Trunk 3A

Lab ID:

1606345-005

Client Sample ID: FP-8

Collection Date: 6/7/2016 1:15:00 PM

Matrix: SOIL Received Date: 6/8/2016 8:00:00 AM

Analyses	Result	PQL Q	nal Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/10/2016 8:43:29 PM	25735
Surr: DNOP	97.3	70-130	%Rec	1	6/10/2016 8:43:29 PM	25735
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/9/2016 6:10:38 PM	25728
Surr: BFB	103	80-120	%Rec	1	6/9/2016 6:10:38 PM	25728
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/9/2016 6:10:38 PM	25728
Toluene	ND	0.049	mg/Kg	1	6/9/2016 6:10:38 PM	25728
Ethylbenzene	ND	0.049	mg/Kg	1	6/9/2016 6:10:38 PM	25728
Xylenes, Total	ND	0.099	mg/Kg	1	6/9/2016 6:10:38 PM	25728
Surr: 4-Bromofluorobenzene	96.8	80-120	%Rec	1	6/9/2016 6:10:38 PM	25728

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

- 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 Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606345

13-Jun-16

Client:

APEX TITAN

Project:

Client ID:

Trunk 3A

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID MB-25735

Batch ID: 25735

RunNo: 34817

Prep Date: 6/8/2016

PBS

Analysis Date: 6/10/2016 PQL

10

10

SegNo: 1075995

Units: mg/Kg

130

Qual

Analyte Diesel Range Organics (DRO)

ND 12

10.00

SPK value SPK Ref Val

120

LowLimit **HighLimit** %RPD

RPDLimit

Surr: DNOP

SPK value SPK Ref Val %REC

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID LCS-25735

Prep Date: 6/8/2016

Client ID: LCSS

SampType: LCS Batch ID: 25735

RunNo: 34817

70

LowLimit

Units: mg/Kg

Qual

Analyte Diesel Range Organics (DRO) Analysis Date: 6/10/2016 Result **PQL**

SeqNo: 1075996 %REC

%RPD **RPDLimit**

Surr: DNOP

49 5.0 50.00 5.000 97.7 100 62.6 70

124 130

HighLimit

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
- 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
- Analyte detected below quantitation limits J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606345

13-Jun-16

Client:

APEX TITAN

Project:

Client ID:

Surr: BFB

Trunk 3A

Sample ID MB-25728

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 25728

RunNo: 34797

Prep Date: 6/8/2016

PBS

Analysis Date: 6/9/2016

PQL

SegNo: 1074300

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO)

ND 1000 5.0

SPK value SPK Ref Val %REC LowLimit

HighLimit

120

%RPD

1000

102

80

RPDLimit

Sample ID LCS-25728

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 25728

RunNo: 34797

HighLimit

Prep Date: 6/8/2016

Analysis Date: 6/9/2016

SeqNo: 1074301

Units: mg/Kg

%RPD RPDLimit Qual

Analyte

Result PQL SPK value SPK Ref Val 23 25.00 5.0

93.8

%REC LowLimit

80 80

Gasoline Range Organics (GRO) Surr: BFB

1100

1000

111

120 120

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

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank B

Value above quantitation range

Analyte detected below quantitation limits

Page 7 of 8

Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606345

13-Jun-16

Client:

APEX TITAN

Project:

Trunk 3A

Sample ID MB-25728

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

80

Client ID: PBS

Batch ID: 25728

RunNo: 34797

Prep Date:

SPK value SPK Ref Val %REC LowLimit

6/8/2016

Analysis Date: 6/9/2016

SeqNo: 1074316

Units: mg/Kg HighLimit

%RPD

RPDLimit

RPDLimit

Qual

Qual

Analyte	Result	PQL
Benzene	ND	0.025
Toluene	ND	0.050
Ethylbenzene	ND	0.050
Xylenes, Total	ND	0.10
Surr: 4-Bromofluorobenzene	1.0	

Surr: 4-Bromofluorobenzene Sample ID LCS-25728

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

Batch ID: 25728

RunNo: 34797

100

Prep Date: 6/8/2016

Client ID: LCSS

Analysis Date: 6/9/2016

SeqNo: 1074317

Units: mg/Kg

120

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD
Benzene	1.0	0.025	1.000	0	101	75.3	123	
Toluene	0.99	0.050	1.000	0	98.9	80	124	
Ethylbenzene	0.96	0.050	1.000	0	95.8	82.8	121	
Xylenes, Total	2.9	0.10	3.000	0	95.6	83.9	122	
Surr 4-Bromofluorobenzene	1.1		1 000		105	80	120	

1.000

Qualifiers:

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

Page 8 of 8

- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified



Hell Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: APEX.AZTEC Work Order Number	er: 1606345		RcptNo: 1
Received by/date 0008	(0	The state of the s	
ogged By: Ashley Sallegos 6/8/2016 8:00:00 AM	Ψ	A	
		4	
AND ASSESSMENT OF THE PARTY OF		34	
Reviewed By: 9 06/08/16	more part that	-	
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?	Client		
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 🗌	· · · prop
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 🗹	# of preserved
And the state of t	Yes 🗸	No 🗆	bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Tes M.	NO 🖂	(<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:			and the court of t
17. Additional remarks:			
18. Gooler information			
Ccoler No Temp C Condition Scal Intact Scal No	Seal Date	Signed By	
1 1.0 Good Yes			

CHAIN OF CUSTODY RECORD Lab use only ANALYSIS Due Date: REQUESTED Laboratory: Hall Environmental APEX Address: Allaquague, NM Temp. of coolers Aztecnin when received (C"): Office Location 8015 Contact: AFRLMAN Phone: PIEN SOUL KSummers Project Manager PO/SO #: Sampler's Name Sampler's Signature Rance Deednilly (Chad D'Apunti Proj. No. Project Name No/Type of Containers Trunk 3A Grab Start Depth End Depth AG 250 Jan Glass Identifying Marks of Sample(s) Matrix Date Time Lab Sample ID (Lab Use Only) 6714100 1606344-00 FP-2R FP-5 67/16 1300 6714 1305 FP-6 07/10 1310 FP-7 6716 1315 FP-8 Turn around time Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush Relinquished by (Signature) NOTES: Time: Received by: (Signature) Time: Date: 47/16 Mont / Jos Li 615 Bill+o Tom Long Epeop Pelinquished by (Signature) Received by: (Signature) Date: Time: Date: Time: 04/08/1 Relinquished by (Signature) 4/7/1 500 Received by: (Signature) Date: Time: Date: Time: Now AFE N25372 Relinquished by (Signature) Date: Time: Received by: (Signature) Date: Time: C - Charcoal tube P/O - Plastic or other Matrix WW - Wastewater VOA - 40 ml vial W - Water S - Soil SD - Solid A/G - Amber / Cr Glass 1 Liler L - Liquid A - Air Bag 250 ml - Glass wide mouth SL - sludge 0-01 Container

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

JUL 1 8 2016 Revised August 8, 2011

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

	2			Sa	inta Fe, NM 8	7505					y 22	
		F	Releas	e Notific	ation and	Corrective	e Actio	on				
					OPERATO	OR	\boxtimes	Initia	Report		Final Repor	
Name of C	Company:	Enterprise	Field Ser	vices LLC		Thomas Long						
		Ave, Farmir			Telephone No. 505-599-2286							
		k MD 16 Inc			Facility Type: Natural Gas Pipeline							
Surface O	wner: BLN	1		Mineral	Owner: BLM			Seria	Number	SN 0	80782	
		100		LOC	ATION OF R	TION OF RELEASE						
Unit Letter	Section	Township	Range	Feet from	North South	Feet from	East	West County				
В	19	30N	10W	the 1323	Line	the 2161	Line		San Ju			
47	-		1	atitude 36.	800683 Longit	ude -107.923	786					
			_	1,4	TURE OF RE							
Type of Re	lease: Hydr	o-Static Test	Water	IVA	Volume o	f Release Estin		Volum	e Recovere	ed: No	ne	
0		10:-				els of potable w		D-t-	- d I.I ef	Disease	Mat.	
Source of F	kelease: Ru	ptured Pipeli	ne			Hour of Occurre @ 9:30 a.m.	ence:		nd Hour of 16 @ 9:30		very:	
Was Immed	diate Notice	Given?				If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer - BLM						
		Ye	s 🗌 No	Not								
Required				2								
By Whom?	Thomas Lo	ong		4	Date and	Time July 5, 20	016@3:18	5 p.m.	r			
Was a Wat	ercourse Re	eached?		.	If YES, V	olume				10		
			Yes	⊠ No								
If a Watere	ourse wee l	mnacted Do	coribo Eul	ly * Approvim	ately 720 barrels	of notable was r	alassad ta	the are	und surfac	o and	flowed	
					ash and flowed ap			uie gio	unu sunac	e allu	llowed	
Describe C	ause of Pro	blem and Re	medial Ac	tion: At appro	ximately 9:30 a.m	. On July 5, 201	16, a ruptu					
					ls of potable was		ground sur	rface an	d flowed s	outhwe	est along the	
right-of-way	entering a	n ephemeral	wash and	flowed appro	ximately 1,500 fe	et.						
Donoriho A	roo Affootos	l and Claanu	n Action:	Entomrico col	lected soil sample	e from the cour	co and flow	u noth c	f the relea	co on	luly 5 2016	
					rrective action rep					se on	July 5, 2016	
		.gp				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
I hereby ce	rtify that the	information	given abo	ve is true and	complete to the b	est of my know	ledge and	unders	and that p	ursuar	t to NMOCD	
rules and re	egulations a	II operators	are require	ed to report an	nd/or file certain re	lease notification	ns and pe	rform co	orrective ac	ctions t	for releases	
					e acceptance of a							
					failed to adequate nent. In addition,							
					eral, state, or loca			0-1411	eport does	HOL 16	lieve ule	
		1 /	///					ATIO	N DIVIS	ION		
Signature:	X	Nu	Val				^	1		1		
Drinted No.	me. Jon E. F	Fields										
Fillited Nat	IIO. OUII E. I	ielus			Approved	by Environmen	tal Specia	listo	_	~		

Date: 7 / 4 - 20 / Phone: (713)381-6684

* Attach Additional Sheets If Necessary

Title: Director, Field Environmental

E-mail Address:jefields@eprod.com

20 Samples Bample 8060 à 6010

Expiration Date:

Attached

Approval Date: 8 4 2010

Conditions of Approval:



OIL CONS. DIV DIST. 3

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 JUL 1 1 2016 Re

Form C-141 Revised August 8, 2011

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

Rel	ease Notifica	ation and Corrective	e Actio	n			
		OPERATOR	\boxtimes	Initial Report	□ F	Final F	Report
Name of Company: Enterprise Field	Services LLC	Contact: Thomas Long		-			
Address: 614 Reilly Ave, Farmington		Telephone No. 505-599	9-2286				
acility Name: Trunk MD 16 Inch		Facility Type: Natural (Gas Pipel	ine			
Surface Owner: BLM	Mineral O	wner: BLM		Serial Number:	SN 080	782	41
	LOCA	TION OF RELEASE					ce

No.				LOC	ATION OF RE	ELEASE			ce
Unit Letter L	Section 30	Township 30N	Range 11W	Feet from the 431	North South Line	Feet from the 1047	East West Line	County San Juan	AC.
		-	L		788716_Longitu	* 4	99		- Morrow
Type of Rel	ease: Hydro	o-Static Test	Water	NA		Release Estim		me Recovered: None	
Source of R	telease: Ru	ptured Pipeli	ne		Date and	Hour of Occurre @ 3:06 p.m.	nce: Date	and Hour of Discovery: /2016 @ 3:06 p.m.	1 9
Was Immed	liate Notice	Given? ⊠ Ye	s 🗆 No	Not		Whom? Vanes			43
By Whom?	Thomas Lo	ong			Date and	Time June 24, 2	2016 @ 6:00 p.	m.	ri C
Was a Wate	ercourse Re		⊠ Yes	□ No	If YES, Vo	lume			
Describe Ar	ea Affected	and Cleanu	p Action: E	Interprise col	ed a flowing south lected soil sample rrective action rep	s from the source	e and flow path	n of the release on June 2 nal." C-141.	3, 2016
rules and re which may e relieve the o ground water	egulations al endanger po operator of I er, surface y	I operators a ublic health o iability should water, human	re require or the envir d their ope n health or	d to report an ronment. The erations have the environm	d/or file certain re e acceptance of a failed to adequate	lease notification C-141 report by sly investigate an NMOCD accepta laws and/or reg	ns and perform the NMOCD m nd remediate co ince of a C-141 ulations.	rstand that pursuant to NI corrective actions for rele arked as "Final Report" d ontamination that pose a t report does not relieve th	eases loes no threat to
Signature:	Sw	E. fin	1			OIL COI	VISERVATIO	ON DIVISION	+po
Printed Nam	ne: Jon E. F	ields	100		Approved	by Environment	al Specialist:	AC =	-
Title: Directo	or, Field En	vironmental			Approval I	Date: 8 4 2	NO Expira	tion Date:	-46
E-mail Addr	ess:jefields	@eprod.com	i		Conditions	of Approval:		Attached	ut
Date: 7/	18/201	6	Phon	e: (713)381-6	6684 110	H61795	3104		· 10

* Attach Additional Sheets If Necessary

not

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

7-14-2016

* Attach Additional Sheets If Necessary

Phone: (713)381-6684

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

JUL 18 2016 Revised August 8, 2011

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

				Sai	nta	Fe, NM 87	505	5					
4	,	F	Releas	e Notific	atio	on and C	orrective	Acti	on				
					C	PERATO	R	Σ	Initia	l Report		Final Repor	
Name of C	company:	Enterprise I	Field Sen	vices LLC		Contact: T	homas Long						
Address: 6	14 Reilly	Ave, Farmin	gton, NM	87401			No. 505-599	-2286					
Facility Na	me: Trunk	MD 16 Inc	h			Facility Type: Natural Gas Pipeline							
Surface O	wner: BLN	ı		Mineral C	Owne	er: BLM	SN 0	80782					
				1.004	TIC	N OF BEI		547					
Unit Letter	Section	Township	Range	Feet from		ON OF REI	Feet from	East	Weet	County			
P	18	30N	10W	the 991	Lir		the 1263	Line	WOOL	San Ju			
		,	La	titude <u>36.88</u>	8070	50 Longitu	de -107 920	570					
				17.8%	. 7	E OF REL		<u> </u>					
Type of Rel	ease: Hydro	o-Static Test	Water	IVAI	UKI		Release Estim	ated	Volume	e Recovere	d Nor		
Type of Kei	ease. Hyur	o-Static Test	vvater				arrels of potal		Volum	Recovere	a. Non		
Source of F	Source of Release: Ruptured Pipeline						our of Occurre 12:51 p.m.	nce:		nd Hour of 16 @ 12:51		ery:	
Was Immed	diate Notice					If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer, BLM							
Required		⊠ Ye	s 📙 No	□ Not		į.							
By Whom?	Thomas Lo	ong				Date and Ti	me July 8, 20	16 @ 1:5	59 p.m.				
Was a Wate	ercourse Re		☐ Yes	⊠ No	1000	If YES, Volu	ime			0			
										-			
		mpacted, Des		The second second second						1.00			
testing of th	e Trunk MD	16 Inch pipe	eline. Appr	tion: At approx roximately 100 ately 500 feet.	-120	ely 5:55 p.m. (barrels of pot	On June 30, 20 able was relea	016, a ru ised to th	pture occ e ground	curred durir d surface a	ng hydr nd flow	o-static ed	
southwest a	along the rig	ht-of-way for	approxim	Approximately ately 500 feet. ole collection.	Ente	erprise collecte	ed soil sample:	s from th	e source	and flow p	ath of t	he release	
rules and re which may relieve the o ground water	egulations al endanger poperator of I er, surface v	Il operators a ublic health o iability should vater, human	re require r the envir d their ope health or	ve is true and of d to report and ronment. The grations have for the environment any other feder	d/or fi acce ailed ent. I	le certain rele ptance of a C to adequately In addition, N	ase notification -141 report by investigate ar MOCD accepta aws and/or reg	ns and po the NMC nd remed ance of a julations.	erform co DCD man liate cont C-141 re	ked as "Fir amination eport does	tions for nal Rep that po- not reli	or releases ort" does not se a threat to	
Signature:	La) F	ell				OIL CO			N DIVIS	ION	5	
Printed Nan	ne: on E. F	ields				Approved by	y Environment	al Specie	alish	2000	کے		
		vironmental					ate:81480		Expiratio	n Date:		1	
E-mail Addr	ess:jefields	@eprod.com				Conditions	1 .1					-	

NVF162020535

Attached

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

* Attach Additional Sheets If Necessary

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

JUL 18 2016 Revised August 8, 2011

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

Release Notification and Corrective Action

					OPER	AIO	₹		🛛 Initial	Report		Final Report	
Name of C	ompany:	Enterprise F	ield Ser	vices LLC	Con	tact: T	homas Long	er e	7.				
Address: 6	14 Reilly A	ve, Farmin	gton, NM	87401	Tele	Telephone No. 505-599-2286							
Facility Na	me: Trunk	MD 16 Inc	h	Ÿ	Faci	ility Ty	e: Natural C	as Pip	eline				
Surface O	wner: BLM			Mineral C	Owner: BL	М			Serial	Number: \$	SN 08	0782	
				LOCA	TION O	F REI	EASE						
Unit Letter B	Section 19	Township 30N	Range 10W	Feet from the 1193	North So Line	uth	Feet from the 2118	East	West	San Jua	n		
			L	atitude 36.8	01030 Lo	ngitud	le <u>-107.9236</u>	60					
				NAT	URE OF	REL	EASE						
Type of Rel	ease: Hydro	-Static Test	Water		Volu	me of F 700 ba	Release Estim rrels of potab		Volume	Recovered	: None	В	
Source of R	elease: Rup	otured Pipelir	ne				our of Occurre 9:45 a.m.	nce:		d Hour of D 6 @ 9:45 a.		ery:	
Was Immed	liate Notice			If YE	S, To V	Vhom? Vanes	sa Field	s, NMOCE); Katherina	Diem	er - BLM		
Required		⊠ Yes	s 🗌 No	☐ Not									
By Whom?	Thomas Lo	ng			Date	and Ti	me July 9, 20	16@11	1:00 p.m.			u .	
Was a Wate	ercourse Re		⊠ Yes	□ No	If YE	S, Volu	ime						
If a Waterco	ourse was Ir	npacted, Des ht-of-way en	scribe Full tering an e	y.* Approxima ephemeral wa:	tely 600-70	0 barre ed appr	s of potable wo	as relea 0 feet.	sed to the	ground sur	face a	nd flowed	
of the Trunk	MD 16 Incl	h pipeline. A	pproximate		arrels of pot	able wa	On July 9, 201 is released to eet.						
							from the source t will be includ				on Ju	ıly 11, 2016	
rules and re which may relieve the o ground water	gulations al endanger pu operator of li er, surface v	l operators a ublic health o lability should vater, human	re require or the envi of their ope of health or	d to report and ronment. The erations have f the environme	d/or file cert acceptance ailed to ade ent. In addi	ain rele of a C equately tion, N	st of my knowle ase notification -141 report by investigate ar MOCD accepta aws and/or reg	the NM the NM nd reme ance of a	perform co OCD mark diate conta a C-141 re	rrective acti ked as "Fina amination th	ons for al Reponant pos	r releases ort" does not se a threat to	
Signature:	To	w Fa	ld				OIL CO	NSER	VATION	DIVISION	N K		
Printed Nan	ne: Jon E. F	ields			Approved by Environmental Specialist								
Title: Directo	or, Field En	vironmental			Approval Date: 84 8016 Expiration Date:						la e		
E-mail Addr	ess:jefields	@eprod.com			Cond	ditions	of Approval:			Attache	d 🗆	. 9	
Date: 7	-14-20	016	Phon	e: (713)381-6	1/12/10/12							Est W	

OIL CONS. DIV DIST. 3

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

Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 JUL 18 2016 Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office

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

-		F	Releas	e Notifica	atio	n and C	orrective	Actio	on				
		•	.0.00			PERATO				Report		Final I	Report
Name of C	ompany:	Enterprise F		Contact: Thomas Long									
Address: 6	14 Reilly A	ve, Farmin	Telephone No. 505-599-2286										
Facility Na	me: Trunk	MD 16 Inc		Facility Type: Natural Gas Pipeline									
Surface O	wner: BLM	20.00	r: BLM			Serial Number: SN 080782 141							
LOCATION OF RELEASE													fice
Unit Letter B						orth South Feet from the 2118			West County San Juan				70.
t av				Latitude 36.	.007	6 Longitud	e107.92376	3					. stirms
				NAT	URE	OF REL	EASE		7				
Type of Rel	ease: Hydro	o-Static Test	Volume of Release Estimated 600-700 barrels of potable water				Volume Recovered: None						
Source of Release: Ruptured Pipeline						7/11/2016 @ 9:45 a.m. 7/11/			7/11/20	and Hour of Discovery: 2016 @ 9:45 a.m.			
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required						If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer - BLM 41							
By Whom?	Thomas Lo	ona	Date and Time July 11, 2016 @ 10:08 a.m.										
Was a Watercourse Reached?						If YES, Volume							
-			Yes	☐ No									
													TAP-LANE
							s of potable wa oximately 2,00		ed to the	ground surf	ace an	nd flow	ed
							On July 11, 201		ure occu	rred during	hydro-	static	36+1
testing of th	e Trunk MD	16 Inch pipe	eline. Appr	oximately 600	-700	barrels of pot	able was release oximately 2,00	sed to the					
£.		0											
Describe Ar with NMOC	ea Affected D witnessin	and Cleanup g sample col	Action: E lection. A	nterprise colle third party corr	ected	soil samples e action repor	from the source t will be include	e and flow ed with th	v path of ne "Final"	the release C-141.	on Jul	ly 11, 2	2016
										anim.		hige Agar	
rules and re which may relieve the o ground water	gulations al endanger pu operator of li er, surface v	I operators a ublic health o iability should vater, human	re required the envir their ope health or	d to report and conment. The rations have fa the environme	l/or fil accer ailed f ent. I	e certain rele ptance of a C- to adequately n addition, NN	at of my knowled ase notification 141 report by investigate and MOCD accepta aws and/or reg	the NMO d remedi nce of a ulations.	rform co CD mark ate conta C-141 re	rrective actions action as "Final amination the port does no	ons for I Repo at pose ot relie	releas rt" doe e a thr	ses es not eat to
Signature:	Va	w Fue	OIL CONSERVATION DIVISION										
Printed Nam	e. Jon E. F	ields	Approved by Environmental Specialist.										
Title: Directo	or, Field Env	vironmental	Approval Date: 8/4/2016 Expiration Date:										
E-mail Addr	ess:jefields(@eprod.com	Conditions of Approval:				Attached AG						
Date: 7	-14-20	0/6	WF162D28758							:D			

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

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

Form C-141

Revised August 8, 2011

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

		F	Releas	e Notifica	atic	on and C	orrective	Acti	on				
					O	PERATOR	3	\triangleright	Initial I	Report		Final Repor	
Name of C	ompany:	Enterprise I	Field Serv	ices LLC		Contact: Th	nomas Long						
		ve, Farmin				Telephone	No. 505-599-	2286					
Facility Na	me: Latera	al 10D-1				Facility Typ	e: Natural Ga	as Gat	hering Pi	peline			
Surface Ov	vner: Nav	ajo Nation/	NAPI	Mineral C)wne	r: Navajo Na	ation/NAPI		Serial I	Number:			
		,				N OF REL	#		1		8 .	1	
Unit Letter	Section	Township	Range	Feet from		orth South	Feet from	East	West	County			
H	12	26N	12W	the 2421	Lir		the 1183	Line		San Jua	n		
	Latitude 36.503232 Longitude -108.058097 OIL CONS. DIV DIST. 3												
				NAT	URI	OF RELE	EASE					- 10	
Type of Rel							elease Unknov		Volume I	Recovered	I None	1110	
Source of R Pipeline	elease: Sus	spected Inter	nal Corros	sion of the		Date and Ho 7/29/2016 @	our of Occurrent 10:30 a.m.	ce:		Hour of E 6 @ 10:30		ery:	
Was Immed	liate Notice			_		If YES, To V	/hom? Cory Sn	nith – N				EPA and	
Required		✓ Ye	s 🗌 No	☐ Not		Mike Freem	an - NAPI						
	Thomas La					Date and Ti	ma 7/20/2016 @	3 44.04	0	IL CONS	. DIV	DIST. 3	
By Whom? Was a Wate						If YES, Volu	ne 7/29/2016 @ me	ו אוו ע	a.m.	ALIC	100	010	
			☐ Yes	⊠ No						AUG	122	סוט	
If a Waterco	ourse was Ir	npacted, De	scribe Full	y.*									
pipeline. Th	e pipeline w		blown dov	vn, locked out			technician disc ofluids were ob						
		and Cleanu luded with th			remo	ve the contam	inant mass by r	nechan	ical excav	ation. A th	ird part	ty corrective	
rules and re which may relieve the o ground water	gulations a endanger poperator of l er, surface v	Il operators a ublic health o iability shoul water, humar	re require or the envir d their ope n health or	d to report and ronment. The erations have for the environment.	l/or fi acce ailed ent.	le certain releat ptance of a C- to adequately in addition, NN	at of my knowled ase notifications 141 report by the investigate and 10CD acceptant was and/or regu	and per ne NMC remed ace of a lations.	erform corr OCD marke iate conta C-141 rep	ective actived as "Finamination the ort does n	ions for al Repo hat pos not relie	or releases ort" does not se a threat to	
Signature:	Ch	18 /					OIL CON	SER\	<u>NOITAN</u>	DIVISH	<u>90</u>		
	//	- July							()	()	<u> </u>		
Printed Nan	ne: Jon E. F	ields				Approved by	Environmenta	Special Special	alist:	سك	~	ン	
Title: Direct	or, Field En	vironmental				Approval Da	te: 8/12/2	016	Expiration	Date:			
E-mail Addr	ress:jefields	@eprod.com				Conditions of	of Approval:	2552	400	Attache	ed 🗆		
Date:	16/2016	,		e: (713)381-66	84	Sample	hea						
* Attach Add	itional She	ets If Neces	ssary			For 13Th	ex, Full B	enge.	TPHIC	nchuchin	3	1	

0

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

AUG 15 2016

Include medials

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505

Oil Conservation Division 1220 South St. Francis Dr.

¥.		F	Releas	e Notific	ation and OPERATO	The same of the same of	Actic		Panet	
Name of C	omnany:	Enterprise F	ield Sen	ices LLC		Thomas Long		milia	Report Final Repo	11
		ve, Farmin				e No. 505-599	-2286			
		uan 28-6#				ype: Natural C		ering l	Pipeline	
Surface O	wner: BLM			Mineral C	Owner: BLM	e	*	Seria	l Number: NM 0045298	
				LOCA	TION OF RE	LEASE				_
Unit Letter P	Section 15	Township 27N	Range 6W	Feet from the 808	North South	Feet from the 715	Line	/est	County San Juan	
			1		56931 Longitu	5/3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	03			
		al Gas and C				Release Unknown			Recovered: None	
Source of R	elease: Sus	spected Inter	nal Corros	sion		Hour of Occurre 1:15 p.m.			nd Hour of Discovery: 6 @ 1:30 p.m.	3,0
Was Immed	iate Notice		s 🗆 No	☐ Not		Whom? Hobso Diemer - BLM	n Sandova	al – Var	essa Fields – NMOCD;	
By Whom?					Date and	Time August 2,	2016 @ 3:	08 p.m.		7
Was a Wate	ercourse Re		⊠ Yes	□ No	If YES, Vo	lume	7		78	
If a Waterco	urse was In	npacted, Des	scribe Full	y.* The gas re	lease site is local	ed in a small ep	hemeral w	ash.	M 2	
#84 pipeline	e. No fluids v	were observe	ed on the	ground surface	e. The pipeline wa	as isolated, blow	n down, lo	ocked o	leak on the San Juan 28-6 ut and tagged out.	
					mediation are in ion report will be				e will remove the contaminant	and the second
rules and re which may relieve the o ground water	gulations al endanger pu operator of li er, surface y	l operators a ublic health o ability should yater, human	re require or the envi of their ope of health or	d to report and conment. The trations have f the environment	d/or file certain re acceptance of a alled to adequate	ease notification C-141 report by ly investigate ar NMOCD accepta	ns and per the NMOO nd remedia ance of a O	form co CD mark ate cont	and that pursuant to NMOCD rrective actions for releases ked as "Final Report" does not amination that pose a threat to port does not relieve the	i i
Signature:	Sw	4. truly	1			OIL CO	NSERV	IOITA	N DIVISION "	
Printed Nan	ne: Jon E. F	ields			Approved	by Environment	al Special	ist:	brosse &	0.0
Title: Direct	or, Environn	nental			Approval I	Date: 8/1912	olle E	xpiratio	n Date:	
E-mail Addr	ess:jefields(@eprod.com	ē.			of Approval:			Attached	
Date: (tional She			e: (713)381-6	684 NV	F162323	3479	21		
					Janho	MICO DI	212 170	16		

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 1625 N. French Dr., Flobbs, NW 66240

District II

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

Form C-141 Revised August 8, 2011

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

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

		44.65	Keleas	e Notific			orrective	Acti					
		Caraca de pol-				ERATO			Initial	Report	\boxtimes	Final Repo	rt
		Enterprise F					homas Long	2222					_
		ve, Farmin					No. 505-599		horina D	inalina			_
racility Iva	ille. ITulik	MID TO IIIC	ii ripeiii	16		acility i y	pe. Natural C	as Gat	nering r	Pipeline al Number: N/A County San Juan Recovered: None Ind Hour of Discovery 1:40 a.m. Powell – NMOCD; Brown AUG 0 8 2016 The found approximate the found approximate peline. Gas loss was recovered and farm facility. It and that pursuant to breed as "Final Report" tamination that pose a peport does not relieve to the power of the pose of the power of the powe		_	
Surface Ov	wner: State	e of New M	exico	Mineral C	Owner:	State of I	lew Mexico		Serial				
12			V	LOCA	ATION	OF RE	LEASE			- 5			
Unit Letter J	Section 36	Township 30N	Range 11W	Feet from the 2203	North Line	South	Feet from the 1608	Line	West		n		
			L	Y.,			le <u>-107.9392</u>	01					
Type of Bol	aaaa: Natur	ol Con and N	latural Co			OF REL		MCE	Volumo	Doggword	l. Mone		_
Type of Rei	ease: Natur	al Gas and N	vaturai Ga	is Liquids	0		Release 22, 00 BBLs Natural		volume	Recovered	: None	•	
	•	eline Rupture	9		6	/8/16 @ 1:			6/8/16 1	:40 a.m.			
Was Immed	liate Notice					f YES, To \ Toley - SLC		ation to E					
Required			s 📙 No	Not	-16	100		21	OIL	CONS. L	וח עול	ST o	
By Whom?							me 6/8/2016 @	0 10:48	a.m.	AUC a		01.3	
Was a Wate	ercourse Re		☐ Yes	⊠ No		YES, Volu	ıme			AUG 08	2016		
If a Waterco	urse was Ir	npacted, Des	scribe Full	y.* Fluids were	e spraye	d into a sn	nall ephemeral	wash to	the south				7
plant. The a	rea supervi of Val-Verd	sor dispatche e plant. Enter	ed technic	ians to check	the Trun	k MD pipe	line corridor. A	gas rele	ase was t	he found a	pproxir	mately 2.6	
created. Flu completed of hydrocarbor	uids from th on June 13, o impacted:	e pipeline rup 2016. The re soil were exc	oture were esidual co avated ar	sprayed appointaminant mas	roximate ss was re to a Nev	ly 350 feet emoved by	to the south. mechanical ex	Repair a	and remed	liation activ	rities w	ere yards of	
I hereby cer rules and re which may or relieve the of ground water	tify that the gulations al endanger pu pperator of l er, surface y	information of ll operators a ublic health of iability should yater, human	given abore re require or the envi d their ope n health or	ve is true and do to report and ronment. The erations have for the environment.	complete d/or file of accepta failed to ent. In a	certain rele ince of a C adequately addition, NI	ase notification -141 report by investigate an	the NMC d remed nce of a	erform cor OCD mark liate conta C-141 rep	rective acti ed as "Fina mination th	ons for al Reponat nat pos	r releases ort" does not se a threat to	
Signature:	In	E. ful	1	2.7		MAN.	OIL CON	VSER)	ATION	DIVISION	MC	\	
Printed Nan	ne: Jon E. F	ields	Å.		A	approved b	y Environment	al Specia	alist:		5	5	
Title: Direct	or, Environn	mental			A	pproval Da	ate:9[2]20	مالا	Expiration	Date:			
E-mail Addr	ess:jefields	@eprod.com				4.00	of Approval:		έ.,	Attache	d 🗖		
Date:	ifional She	ete If Neces		e: (713)381-6	684	MAF	-19191-	237	TP		_		



OIL CONS. DIV DIST. 3
AUG 08 2016

CORRECTIVE ACTION REPORT

Property:

Trunk MD 16" (June 2016) Pipeline Release SE 1/4, S36 T30N R11W San Juan County, New Mexico

> July 18, 2016 Apex Project No. 725040112166

> > Prepared for:

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

Prepared by:

Ranee Deechilly Project Scientist

Kyle Summers, CPG Branch Manager/Senior Geologist

TABLE OF CONTENTS

1.0	INTRO	DDUCTION	1
	1.1 1.2	Site Description & Background	
2.0	SITE	RANKING	.1
3.0	RESP	ONSE ACTIONS	2
	3.1	Soil Excavation Activities	
	3.2	Soil Sampling Program	3
	3.3	Laboratory Analytical Methods	
4.0	DATA	EVALUATION	
	4.1	Confirmation Soil Samples	4
5.0	FINDI	NGS AND RECOMMENDATIONS	4
6.0	STAN	DARD OF CARE, LIMITATIONS, AND RELIANCE	5
LIS	r of Al	PPENDICES	
App	endix	A: Figure 1 – Topographic Map	
		Figure 2 – Site Vicinity Map	
		Figure 3 – Site Map with Excavation Soil Analytical Results	
	ą.	Figure 4 – Site Map with Surface Soil Analytical Results	
App	endix l	B: Executed C-138 Solid Waste Acceptance Form	
App	endix (C: Photographic Documentation	
App	endix l	D: Table	
App	endix l	E: Laboratory Analytical Reports & Chain of Custody Documentation	



CORRECTIVE ACTION REPORT

Trunk MD 16" (June 2016) Pipeline Release SE 1/4, S36 T30N R11W San Juan County, New Mexico

Apex Project No. 725040112166

1.0 INTRODUCTION

1.1 Site Description & Background

The Trunk MD 16" pipeline release Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the southeast (SE) ¼ of Section 36, Township 30 North, Range 11 West in San Juan County, New Mexico (36.76728N, 107.93913W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land managed by the State of New Mexico. The Site is surrounded by native-vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise natural gas pipeline which traverses the area from north to south.

On June 8, 2016, a blowout occurred on the Trunk MD 16" pipeline. On June 9, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The blowout resulted in the loss of natural gas and pipeline liquids from the pipeline (primarily as a silty-mud overspray). The majority of the overspray affected approximately 0.25 acres of the pipeline ROW to the south of the rupture site. The pipeline was subsequently repaired by replacing 87.5 feet of pipe.

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 environmental corrective action was to evaluate/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 utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



Ranking	g Criteria	ENERGY TO	Ranking Score
	<50 feet	20	
Depth to Groundwater	50 to 99 feet	10	20
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water	Yes	20	0
source, or; <200 feet from private domestic water source.	No	0	•
8	<200 feet	20	,
Distance to Surface Water Body	200 to 1,000 feet	10	20
	>1,000 feet	0	
Total Ran	king Score		40

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 40. This ranking is based on the following:

- No water wells were identified on the Office of the State Engineer (OSE) website. Based
 on the proximity to an ephemeral wash, the depth to groundwater at the Site may be less
 than 50 feet 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 result in a wellhead protection area ranking of "0".
- The release point is located approximately 110 feet south of an ephemeral wash, which is
 identified as a "blue line" on the United States Geological Society topographic map. This
 information supports a distance to surface water ranking of "20".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On June 8, 2016, a blowout occurred on the Trunk MD 16" pipeline. On June 9, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The blowout resulted in the loss of natural gas and pipeline liquids from the pipeline (primarily as a silty-mud overspray). The majority of the overspray affected approximately 0.25 acres of the pipeline ROW to the south of the rupture site. The pipeline was subsequently repaired by replacing 87.5 feet of pipe. During the corrective action activities, Halo Services, Inc., provided heavy equipment and labor support, and Ranee Deechilly, an Apex environmental professional, provided environmental support.

The main overspray area measured approximately 165 feet long and 60 feet wide, south of the repair excavation. On June 9, 2016 the overspray area was scraped approximately two (2) to three (3) inches below grade surface (bgs) to remove the dried material from the release. Additionally, two (2) confirmation soil samples (CS-1 and CS-2) were collected for laboratory analysis from the north and south wall of the repair excavation.

On June 13, 2016, eight (8) confirmation soil samples were collected from the repair excavation to complete the analytical profile. In addition, five (5) surface samples (SF-1 through SF-5) were collected from the overspray area.



The final excavation measured approximately 66 feet long by 16 feet wide at the maximum extents, with a total depth of approximately seven (7) feet bgs.

The lithology encountered during the completion of corrective action activities (which were performed almost exclusively within the confines of the original pipe chase) consisted primarily of unconsolidated silty sand. Portions of the pipe chase floor and sidewalls exhibited slightly-cemented silty sands.

A total of approximately 58 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, NM 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 the Enterprise pipeline (Appendix A). Figure 4 is a site map that indicates the approximate location of the primary overspray area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of the impacted soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of eight (8) confirmation samples (CS-1 through CS-8) from the sidewalls and base of the final excavation and five (5) surface soil samples for laboratory analysis. Four (4) of the surface soil samples (SF-1 through SF-4) were collected from the primary area of overspray, south of the pipeline rupture. One (1) of the surface soil samples (SF-5) was collected from an area north of the rupture that was not scraped, but exhibited possible signs of overspray. An OCD representative was on-Site during the soil sampling event.

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). Figure 4 is a site map that indicates the approximate location of the primary overspray area and shows the sample locations in relation to the scraped area dimensions (Appendix A).

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

3.3 Laboratory Analytical Methods

The excavation and surface confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using 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 NMAC 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 practical quantitation limits (PQLs) associated with the final confirmation soil samples (CS-1 through CS-8, and SF-1 though SF-5) collected from the excavated and overspray area to the OCD RALs for sites having a total ranking score of "40".

- The laboratory analyses of the confirmation samples from soils remaining in place exhibited benzene concentrations below the PQLs, which are below the OCD RAL of 10 mg/kg.
- The laboratory analyses of the confirmation samples from soils remaining in place indicate total BTEX concentrations below the PQLs, which are below the OCD RAL of 50 mg/kg.
- The laboratory analyses of confirmation samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below PQLs to 9.8 mg/kg (CS-2), which are below the OCD RAL of 100 mg/kg for a Site ranking of "40".

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

5.0 FINDINGS AND RECOMMENDATIONS

The Trunk MD 16" pipeline release Site is located within the Enterprise pipeline ROW in the SE ¼, Section 36, Township 30 North, Range 11 West in San Juan County, New Mexico. The Site is located on land managed by State of New Mexico. The Site is surrounded by native-vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise natural gas pipeline which traverses the area from north to south.

On June 8, 2016, a blowout occurred on the Trunk MD 16" pipeline. On June 9, 2016, Enterprise initiated excavation activities to facilitate the repair of the pipeline and to remediate potential hydrocarbon impact. The blowout resulted in the loss of natural gas and pipeline liquids from the pipeline (primarily as a silty-mud overspray). The majority of the overspray affected approximately 0.25 acres of the pipeline ROW to the south of the rupture site. The pipeline was subsequently repaired by replacing 87.5 feet of pipe.

- 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 main overspray area measured approximately 165 feet long and 60 feet wide, south of the repair excavation.

Enterprise Field Services, LLC Corrective Action Report Trunk MD 16" (June 2016) Pipeline Release July 18, 2016



- The lithology encountered during the completion of corrective action activities (which were performed almost exclusively within the confines of the original pipe chase) consisted primarily of unconsolidated silty sand. Portions of the pipe chase floor and sidewalls exhibited slightly-cemented silty sands.
- The final excavation measure approximately 66 feet long by 16 feet wide at the maximum extents, with a total depth of 7 feet bgs.
- Prior to backfilling, eight (8) confirmation soil samples were collected from the resulting final excavation and five (5) surface soil samples were collected for laboratory analyses.
 Based on analytical results, soils remaining in place do not exhibit BTEX or TPH GRO/DRO concentrations above the OCD RALs for a site ranking of "40".
- A total of approximately 58 cubic yards of hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, NM for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to the approximate surrounding grade.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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 or described herein. 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.

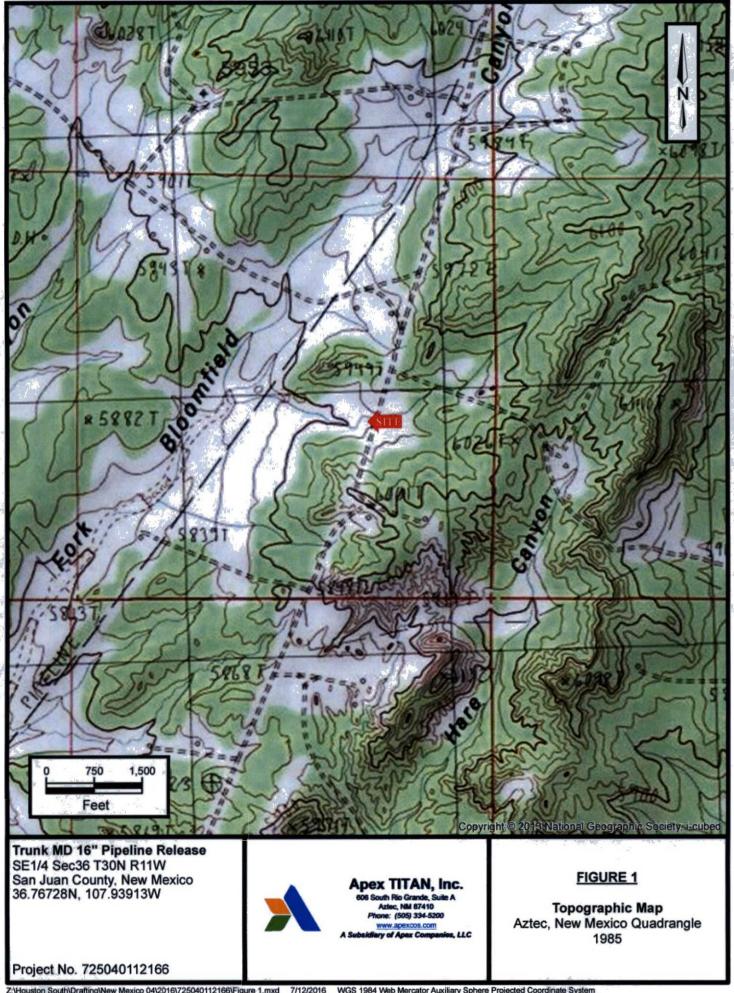
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence 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.

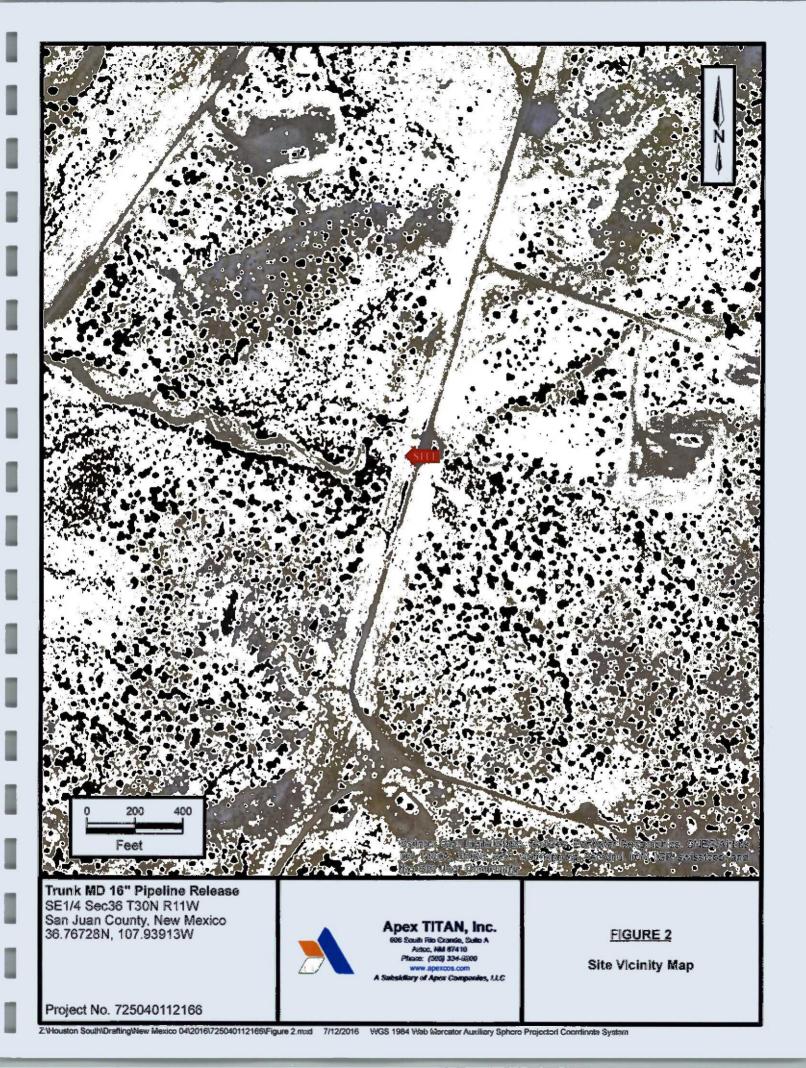
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution 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.

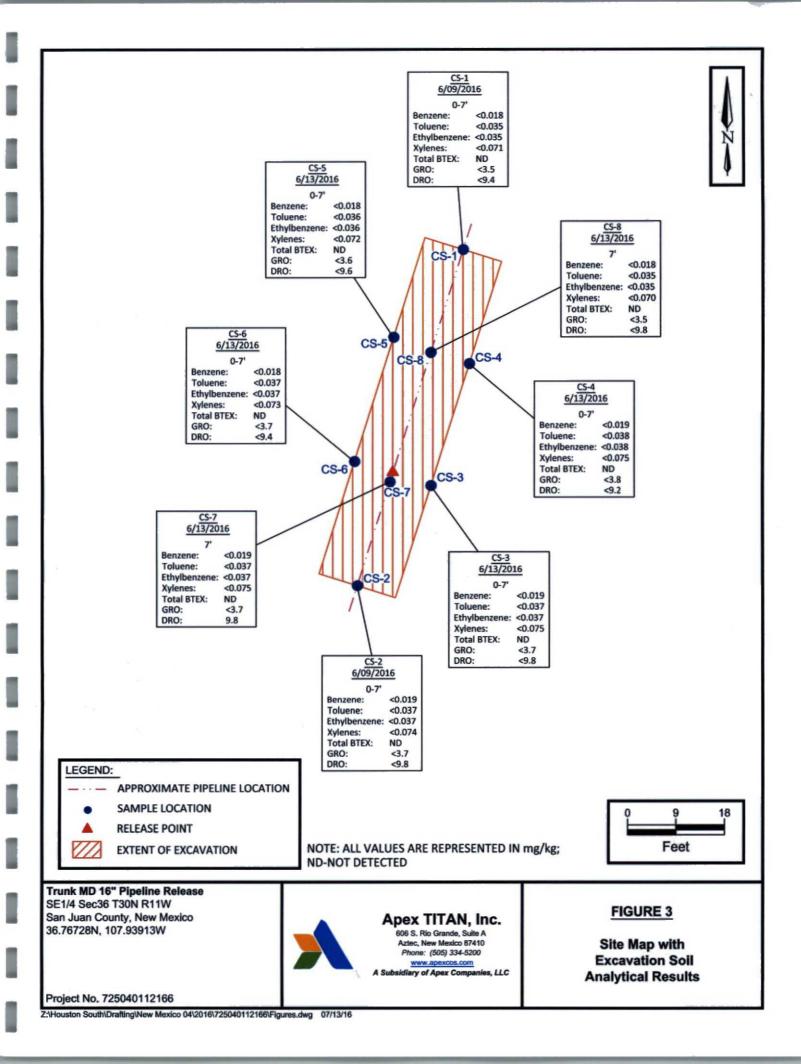


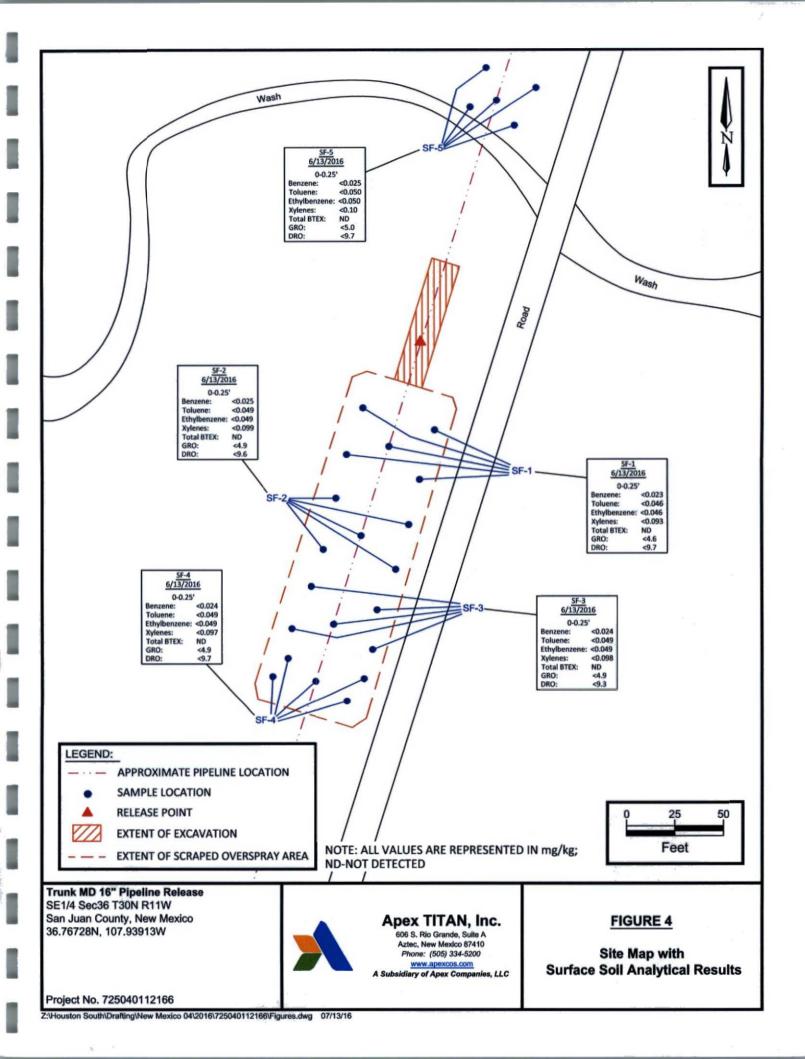
APPENDIX A

Figures











APPENDIX B

Executed C-138 Solid Waste Acceptance Form

97057-0777

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

Form C-138 Revised August 1, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 June 2016
	Originating Site: Trunk MD Pipeline
	Location of Material (Street Address, City, State or ULSTR): Unit Letter J Section 36 Township 30 North Range 11 West; 36.768455,-107.938499; San Juan County, NM
4. 5.	Source and Description of Waste: Hydrocarbon impacted soil associated with a pipeline release. Estimated Volume 100 yd bbls Known Volume (to be entered by the operator at the end of the haul) yd bbls
5.	GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
P	nomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby COMPANY NAME
regu	ify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 latory 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
1, 2	6-9-16 , representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
	plete the required testing/sign the Generator Waste Testing Certification.
have of th	representative for Envirotech, Inc. do hereby certify that esentative 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 be representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 5.36 NMAC.
	Transporter: Halo
Vame	Permitted Surface Waste Management Facility and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011 ess of Facility: Hilltop, NM
Metho	od of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other
Vast	e Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
RIN	TNAME: Greg Craptres TITLE: Env. Manager DATE: 6/9/16
IGN	ATURE: TELEPHONE NO.: 505-632-0615 Surface Waste Management Facility Authorized Agent



APPENDIX C

Photographic Documentation



Photograph 1

View of the blowout "crater", facing southwest.



Photograph 2

View of the blowout "crater", facing northeast.



Photograph 3

View of the overspray area, facing southwest.





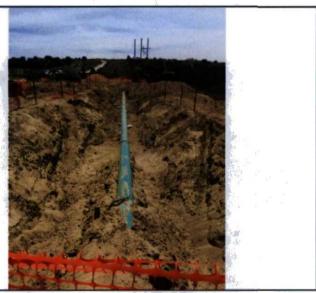
Photograph 4

View of the in-process corrective action activites, facing southwest.



Photograph 5

View of the final excavation and repaired pipeline, facing southwest.





APPENDIX D

Table



TABLE 1 Trunk MD 16" (June 2016) 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		
	a search of			Excavation Co	onfirmation Samples				
CS-1	6.09.16	0 to 7	<0.018	< 0.035	<0.035	< 0.071	ND ND	<3.5	<9.4
CS-2	6.09.16	0 to 7	<0.019	< 0.037	< 0.037	< 0.074	ND	<3.7	<9.8
CS-3	6.13.16	0 to 7	<0.019	< 0.037	< 0.037	< 0.075	ND	<3.7	<9.8
CS-4	6.13.16	0 to 7	<0.019	<0.038	<0.038	< 0.075	ND	<3.8	<9.2
CS-5	6.13.16	0 to 7	<0.018	< 0.036	<0.036	<0.072	ND	<3.6	<9.6
CS-6	6.13.16	0 to 7	<0.018	< 0.037	< 0.037	<0.073	ND	<3.7	<9.4
CS-7	6.13.16	7	<0.019	< 0.037	<0.037	< 0.075	ND	<3.7	9.8
CS-8	6.13.16	7	<0.018	< 0.035	<0.035	<0.070	ND	<3.5	<9.8
				Surfa	ce Samples				
SF-1	6.13.16	0 to 0.25	<0.023	<0.046	<0.046	<0.093	ND ND	<4.6	<9.7
SF-2	6.13.16	0 to 0.25	<0.025	<0.049	<0.049	< 0.099	ND	<4.9	<9.6
SF-3	6.13.16	0 to 0.25	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.3
SF-4	6.13.16	0 to 0.25	<0.024	<0.049	<0.049	< 0.097	ND	<4.9	<9.7
SF-5	6.13.16	0 to 0.25	<0.025	< 0.050	<0.050	<0.10	ND	<5.0	<9.7

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

ND = Not Detected above the Laboratory Reporting Limits

NE = Not established



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 17, 2016

Kyle Summers

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk MD16" June 2016

OrderNo.: 1606710

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/14/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1606710

Date Reported: 6/17/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SF-1

Project:

Trunk MD16" June 2016

Collection Date: 6/13/2016 2:30:00 PM

Lab ID:

1606710-001

Matrix: SOIL

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/16/2016 9:02:54 AM	25834
Surr: DNOP	107	70-130	%Rec	1	6/16/2016 9:02:54 AM	25834
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/15/2016 8:20:36 PM	25846
Surr: BFB	108	80-120	%Rec	1	6/15/2016 8:20:36 PM	25846
EPA METHOD 8021B: VOLATILES			F		Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	6/15/2016 8:20:36 PM	25846
Toluene	ND	0.046	mg/Kg	1	6/15/2016 8:20:36 PM	25846
Ethylbenzene	ND	0.046	mg/Kg	1	6/15/2016 8:20:36 PM	25846
Xylenes, Total	ND	0.093	mg/Kg	1	6/15/2016 8:20:36 PM	25846
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	6/15/2016 8:20:36 PM	25846

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

- 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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1606710

Date Reported: 6/17/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SF-2

Project:

Trunk MD16" June 2016

Collection Date: 6/13/2016 2:40:00 PM

Lab ID:

1606710-002

Matrix: SOIL

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	1			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/16/2016 9:24:44 PM	25834
Surr: DNOP	100	70-130	%Rec	1	6/16/2016 9:24:44 PM	25834
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/15/2016 8:44:00 PM	25846
Surr: BFB	109	80-120	%Rec	1	6/15/2016 8:44:00 PM	25846
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/15/2016 8:44:00 PM	25846
Toluene	ND	0.049	mg/Kg	1	6/15/2016 8:44:00 PM	25846
Ethylbenzene	ND	0.049	mg/Kg	1	6/15/2016 8:44:00 PM	25846
Xylenes, Total	ND	0.099	mg/Kg	1	6/15/2016 8:44:00 PM	25846
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/15/2016 8:44:00 PM	25846

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

- 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 Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1606710

Date Reported: 6/17/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SF-3

Project:

Trunk MD16" June 2016

Collection Date: 6/13/2016 2:50:00 PM

Lab ID:

1606710-003

Matrix: SOIL

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/16/2016 9:53:04 PM	25834
Surr: DNOP	102	70-130	%Rec	1	6/16/2016 9:53:04 PM	25834
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/15/2016 9:07:32 PM	25846
Surr: BFB	106	80-120	%Rec	1	6/15/2016 9:07:32 PM	25846
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/15/2016 9:07:32 PM	25846
Toluene	ND	0.049	mg/Kg	1	6/15/2016 9:07:32 PM	25846
Ethylbenzene	ND	0.049	mg/Kg	1	6/15/2016 9:07:32 PM	25846
Xylenes, Total	ND	0.098	mg/Kg	1	6/15/2016 9:07:32 PM	25846
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/15/2016 9:07:32 PM	25846

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

- 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1606710

Date Reported: 6/17/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SF-4

Project:

Trunk MD16" June 2016

Collection Date: 6/13/2016 3:00:00 PM

Lab ID:

1606710-004

Matrix: SOIL

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/16/2016 10:21:36 PM	25834
Surr: DNOP	92.7	70-130	%Rec	1	6/16/2016 10:21:36 PM	25834
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/15/2016 9:31:02 PM	25846
Surr: BFB	107	80-120	%Rec	1	6/15/2016 9:31:02 PM	25846
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	6/15/2016 9:31:02 PM	25846
Toluene	ND	0.049	mg/Kg	1	6/15/2016 9:31:02 PM	25846
Ethylbenzene	ND	0.049	mg/Kg	1	6/15/2016 9:31:02 PM	25846
Xylenes, Total	ND	0.097	mg/Kg	1	6/15/2016 9:31:02 PM	25846
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/15/2016 9:31:02 PM	25846

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

- 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 Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1606710

Date Reported: 6/17/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SF-5

Project:

Trunk MD16" June 2016

Collection Date: 6/13/2016 3:10:00 PM

Lab ID: 1606710-005

Matrix: SOIL

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/16/2016 1:53:10 PM	25834
Surr: DNOP	89.2	70-130	%Rec	1	6/16/2016 1:53:10 PM	25834
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/15/2016 9:54:32 PM	25846
Surr: BFB	107	80-120	%Rec	1	6/15/2016 9:54:32 PM	25846
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/15/2016 9:54:32 PM	25846
Toluene	ND	0.050	mg/Kg	1	6/15/2016 9:54:32 PM	25846
Ethylbenzene	ND	0.050	mg/Kg	1	6/15/2016 9:54:32 PM	25846
Xylenes, Total	ND	0.10	mg/Kg	1	6/15/2016 9:54:32 PM	25846
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/15/2016 9:54:32 PM	25846

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

- * 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 Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606710

17-Jun-16

Client:

APEX TITAN

Project:

Trunk MD16" June 2016

r roject.	TIUIK WII	Jio June	2010								
Sample ID	MB-25834	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 25	834	F	RunNo:	34958			3	
Prep Date:	6/14/2016	Analysis Da	ate: 6/	/16/2016	8	SeqNo:	1080383	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	ND	10							Y 3	
Surr: DNOP		10		10.00		101	70	130			
Sample ID	LCS-25834	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 25	834	F	RunNo:	34958				
Prep Date:	6/14/2016	Analysis Da	ate: 6/	16/2016	8	SeqNo:	1080385	Units: mg/l	(g		
Analyte	2 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	45	10	50.00	0	91.0	62.6	124		1	
Sur: DNOP		4.2		5.000		84.7	70	130		1.5.2.2	
Sample ID	1606710-001AMS	SampTy	pe: MS	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SF-1	Batch	ID: 25	834	F	RunNo:	34960				
Prep Date:	6/14/2016	Analysis Da	ate: 6/	16/2016	8	SeqNo:	1080389	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	55	9.7	48.26	4.015	106	33.9	141			
Surr: DNOP	<u> </u>	4.4	-	4.826		92.2	70	130			
Sample ID	1606710-001AMSD	SampTy	pe: MS	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SF-1	Batch	ID: 25	834	F	RunNo: 3	34960				
Official ID.	A STREET TO THE PROPERTY OF THE PARTY OF	Analysis De	te 6/	16/2016	8	SeqNo:	1080391	Units: mg/h	(g		
Prep Date:	6/14/2016	Allalysis Da									
Control of the second	6/14/2016	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date:					SPK Ref Val 4.015	%REC 97.6 88.1		HighLimit 141	%RPD 4.72	RPDLimit 20	Qual

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
- W Sample container temperature is out of limit as specified

Page 6 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606710

17-Jun-16

Client:

APEX TITAN

Project:

Trunk MD16" June 2016

Project:	Trunk MI	Ol6" June	2016								
Sample ID	MB-25846	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 25	846	F	RunNo: 3	4934				
Prep Date:	6/14/2016	Analysis D	ate: 6/	15/2016	5	SeqNo: 1	079435	Units: mg/h	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								1
Surr: BFB		1100		1000		107	80	120	241		
Sample ID	LCS-25846	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 25	846	F	RunNo: 3	4934				
Prep Date:	6/14/2016	Analysis D	ate: 6/	15/2016	8	SeqNo: 1	079436	Units: mg/h	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sasoline Rang	ge Organics (GRO)	22	5.0	25.00	0	87.1	80	120			
Surr: BFB	di :	1100		1000		114	80	120			
Sample ID	1606710-002AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	SF-2	Batch	ID: 25	846	F	RunNo: 3	4934				
Prep Date:	6/14/2016	Analysis D	ate: 6/	15/2016	8	SeqNo: 1	079442	Units: mg/h	K g		
Analyte	-	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	4.9	24.68	0	91.6	59.3	143			
Surr: BFB		1200		987.2		119	80	120		10	- 3
Sample ID	1606710-002AMSE	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	SF-2	Batch	ID: 25	846	F	RunNo: 3	4934				
Prep Date:	6/14/2016	Analysis D	ate: 6/	15/2016	8	SeqNo: 1	079443	Units: mg/h	K g		
The state of the s											
Analyte	<u> </u>	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	pe Organics (GRO)	Result 22	PQL 4.7	SPK value 23.58	SPK Ref Val	%REC 92.0	LowLimit 59.3	HighLimit 143	%RPD 4.10	RPDLimit 20	Qual

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
- W Sample container temperature is out of limit as specified

Page 7 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606710

17-Jun-16

Client:

APEX TITAN

Project:	1 runk MI	D16" June	2016											
Sample ID	MB-25846	SampT	ype: ME	BLK	Test	Code: El	PA Method	8021B: Volat	iles	e e				
Client ID:	PBS	Batch	ID: 25	846	RunNo: 34934									
Prep Date:	6/14/2016	Analysis D	ate: 6/	15/2016	S	eqNo: 1	079465	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		ND	0.025											
Toluene		ND	0.050											
Ethylbenzene		ND	0.050											
Xylenes, Total		ND	0.10											
Surr: 4-Bron	nofluorobenzene	1.0		1.000		104	80	120						
Sample ID	LCS-25846	SampT	ype: LC	s	Test	Code: El	PA Method	8021B: Volat	iles					
Client ID:	LCSS	Batch	ID: 25	846	R	tunNo: 3	4934							
Prep Date:	6/14/2016	Analysis D	ate: 6/	15/2016	S	eqNo: 1	079466	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.93	0.025	1.000	0	92.9	75.3	123						
Toluene		0.92	0.050	1.000	0	92.0	80	124						
Ethylbenzene		0.92	0.050	1.000	0	92.1	82.8	121						
Xylenes, Total		2.8	0.10	3.000	0	92.1	83.9	122						
Surr: 4-Bron	nofluorobenzene	1.1		1.000		109	80	120						
	1606710-001AMS		ype: MS		Tes			120 8021B: Volat	iles		-			
Sample ID		SampT	ype: MS	•	33.73.73		PA Method		iles					
Sample ID	1606710-001AMS SF-1	SampT	ID: 25	846	R	Code: El	PA Method							
Sample ID Client ID:	1606710-001AMS SF-1	SampT	ID: 25	846 15/2016	R	tCode: El	PA Method	8021B: Volat		RPDLimit	Qual			
Sample ID Client ID: Prep Date:	1606710-001AMS SF-1	SampT Batch Analysis D	ID: 258	846 15/2016	R	Code: El tunNo: 3 seqNo: 1	PA Method 4934 079468	8021B: Volat	g	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte	1606710-001AMS SF-1	SampT Batch Analysis D Result	ID: 258 ate: 6/	846 15/2016 SPK value	SPK Ref Val	tCode: El tunNo: 3 teqNo: 1 %REC	PA Method 4934 079468 LowLimit	8021B: Volat Units: mg/K HighLimit	g	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene	1606710-001AMS SF-1	SampT Batch Analysis D Result 0.87	PQL 0.023	846 15/2016 SPK value 0.9149	SPK Ref Val	tCode: El tunNo: 3 teqNo: 1 %REC 94.9	PA Method 4934 079468 LowLimit 71.5	8021B: Volat Units: mg/K HighLimit 122	g	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1606710-001AMS SF-1 6/14/2016	SampT Batch Analysis D Result 0.87 0.89	PQL 0.023 0.046	846 15/2016 SPK value 0.9149 0.9149	SPK Ref Val	tCode: El tunNo: 3 seqNo: 1 %REC 94.9 96.9	PA Method 4934 079468 LowLimit 71.5 71.2	8021B: Volate Units: mg/K HighLimit 122 123	g	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	1606710-001AMS SF-1 6/14/2016	SampT Batch Analysis D Result 0.87 0.89 0.86	PQL 0.023 0.046 0.046	846 15/2016 SPK value 0.9149 0.9149 0.9149	SPK Ref Val 0 0 0	RunNo: 3 seqNo: 1 %REC 94.9 96.9 94.1	PA Method 4934 079468 LowLimit 71.5 71.2 75.2	8021B: Volate Units: mg/K HighLimit 122 123 130	g	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	1606710-001AMS SF-1 6/14/2016	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0	PQL 0.023 0.046 0.046	846 15/2016 SPK value 0.9149 0.9149 0.9149 2.745 0.9149	SPK Ref Val 0 0 0 0	tCode: El tunNo: 3 teqNo: 1 %REC 94.9 96.9 94.1 94.3 109	PA Method 4934 079468 LowLimit 71.5 71.2 75.2 72.4 80	8021B: Volate Units: mg/K HighLimit 122 123 130 131	g %RPD	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	1606710-001AMS SF-1 6/14/2016	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0 SampT	PQL 0.023 0.046 0.046 0.091	846 15/2016 SPK value 0.9149 0.9149 0.9149 2.745 0.9149	SPK Ref Val 0 0 0 0 Test	tCode: El tunNo: 3 teqNo: 1 %REC 94.9 96.9 94.1 94.3 109	PA Method 4934 079468 LowLimit 71.5 71.2 75.2 72.4 80	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120	g %RPD	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID:	1606710-001AMS SF-1 6/14/2016	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0 SampT	PQL 0.023 0.046 0.046 0.091 vype: MS	846 15/2016 SPK value 0.9149 0.9149 2.745 0.9149	SPK Ref Val 0 0 0 0 Test	REC 94.9 96.9 94.1 94.3 109	PA Method 4934 079468 LowLimit 71.5 71.2 75.2 72.4 80 PA Method	8021B: Volat Units: mg/K HighLimit 122 123 130 131 120	g %RPD	RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID:	1606710-001AMS SF-1 6/14/2016 nofluorobenzene 1606710-001AMSD SF-1	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0 SampT Batch	PQL 0.023 0.046 0.046 0.091 vype: MS	846 15/2016 SPK value 0.9149 0.9149 2.745 0.9149 6D 846	SPK Ref Val 0 0 0 0 Test	### Code: El ### REC 94.9 96.9 94.1 94.3 109 ### Code: El #### RECODE: 1	PA Method 4934 079468 LowLimit 71.5 71.2 75.2 72.4 80 PA Method	8021B: Volate Units: mg/K HighLimit 122 123 130 131 120 8021B: Volate	g %RPD	RPDLimit RPDLimit	Qual			
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte	1606710-001AMS SF-1 6/14/2016 nofluorobenzene 1606710-001AMSD SF-1	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0 SampT Batch Analysis D	PQL 0.023 0.046 0.046 0.091 ype: MS	846 15/2016 SPK value 0.9149 0.9149 2.745 0.9149 6D 846	SPK Ref Val 0 0 0 0 Test	### Code: El ### REC 94.9 96.9 94.1 94.3 109 ### Code: El #### RECODE: 1	PA Method 4934 079468 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 4934 079469	8021B: Volate Units: mg/K HighLimit 122 123 130 131 120 8021B: Volate Units: mg/K	g %RPD					
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene	1606710-001AMS SF-1 6/14/2016 nofluorobenzene 1606710-001AMSD SF-1	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0 SampT Batch Analysis D Result	PQL 0.023 0.046 0.046 0.091 vype: MS i ID: 256 ate: 6/	846 15/2016 SPK value 0.9149 0.9149 2.745 0.9149 8D 846 15/2016 SPK value	SPK Ref Val 0 0 0 Test	tCode: El tunNo: 3 teqNo: 1 %REC 94.9 96.9 94.1 94.3 109 tCode: El tunNo: 3 teqNo: 1	PA Method 4934 079468 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 4934 079469 LowLimit	Units: mg/K HighLimit 122 123 130 131 120 8021B: Volat Units: mg/K HighLimit	%RPD	RPDLimit				
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1606710-001AMS SF-1 6/14/2016 nofluorobenzene 1606710-001AMSD SF-1	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0 SampT Batch Analysis D Result 0.92	PQL 0.023 0.046 0.046 0.091 ype: MS 1D: 256 ate: 6/	846 15/2016 SPK value 0.9149 0.9149 2.745 0.9149 6D 846 15/2016 SPK value 0.9443	SPK Ref Val 0 0 0 0 Test	### Code: El ### SeqNo: 1 ### REC 94.9 96.9 94.1 94.3 109 ### Code: El ### REC 97.1	PA Method 4934 079468 LowLimit 71.5 71.2 75.2 72.4 80 PA Method 4934 079469 LowLimit 71.5	8021B: Volate Units: mg/K HighLimit 122 123 130 131 120 8021B: Volate Units: mg/K HighLimit 122	%RPD illes %RPD 5.41	RPDLimit 20				
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date:	1606710-001AMS SF-1 6/14/2016 nofluorobenzene 1606710-001AMSD SF-1	SampT Batch Analysis D Result 0.87 0.89 0.86 2.6 1.0 SampT Batch Analysis D Result 0.92 0.93	PQL 0.023 0.046 0.046 0.091 ype: MS a ID: 258 ate: 6/ PQL 0.024 0.047	846 15/2016 SPK value 0.9149 0.9149 2.745 0.9149 6D 846 15/2016 SPK value 0.9443 0.9443	SPK Ref Val 0 0 0 0 Test SPK Ref Val 0 0	### Code: El ### SeqNo: 1 ### REC 94.9 96.9 94.1 94.3 109 ### Code: El ### REC 97.1 98.5	PA Method 4934 079468 LowLimit 71.5 75.2 75.4 80 PA Method 4934 079469 LowLimit 71.5 71.2	8021B: Volate Units: mg/K HighLimit 122 123 130 131 120 8021B: Volate Units: mg/K HighLimit 122 123	%RPD illes %RPD 5.41 4.75	RPDLimit 20 20				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: APEX AZTEC	Work Order Numb	per: 1606710		RcptNo	1
Received by/date: Logged By: Lindsay Mangin	04 12412 6/14/2016 7:10:00 A		O-SMG		
Completed By: Lindsay Mangin	6/14/2016 8:01:36 /	M	a trulo		
Reviewed By:	06/14/16				i
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes U	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?		Courier			
<u>Log In</u>					
4. Was an attempt made to cool the samples	?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	l'.
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) prope	orly 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	ken?	Yes	No 🗗	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗷	No 🗆	bottles checked for pH: (<2	or >12 unless noted)
13. Are matrices correctly identified on Chain of	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	E			
By Whom:	Via:	eMail [Phone Fax	☐ In Person	1
Regarding:					1
Client Instructions: 17. Additional remarks:					
18. Cooler Information Cooler No Temp °C Condition S	Seal Intact Seal No	Seal Date	Signed By	ſ	
1 1.3 Good Ye	98				

																							HAI	V OF	UU5	זעט		טי
Proje Sampl	PEX e Location ect Manager's Name	ger Y	45	WW	~\m\~	Cont Phot	ress: _ tact: _ ne: _ so #: _ er's Sign	.Ai	tall augu	uq	ne ₁ 1	М			Red	ALYS OUES	STE	PO LIDECI							Due	2 3	(C*): 1.3 4 5 of	
Proj. N	lo.	7	Proje			ND16"	une				ype of C				Ċ	X 202			//	//	//							
Matrix	Date	Time	OGE	rab	Identifying	Marks of S	ample(s)	Start	Depth Depth	VO	₽# ==	250 ■	Glass	P/0	/	//	//		/					Lab	Sample I	D (Lab Us	e Only)	
5	6/13/16	1430			<.5	F-1			_				١		X	V	1		1	1)	100	67	10-	200	
1	1	1440			1.1	F-2				·	.NA		1		X	Ý.								-	-		07	
		1450			-	F-3)		X	Y											205	
		1500				F-4							١		V	Y										-6	204	
V	√	1510				F-5							1		X	*										-6	25	
																	-	-	+		(F)							
				_				-								-	+	+	+	+	-							
						NES	_									+	+	+	+	+	-							
											_					+	+	+	+	+	+							
Turn a	round time	Nor	mai	0:	25% Rush	□ 50% R	lush [100%	Rush		_				Щ.													
Beling	uished by	(Signature)		b	Date:	Time:	Pecel	ved by:	(Signa		eb		Date		17		NC	OTES						_				
Pelips	uished by	(Signature)			pate:	Time: 1914	Recei	vedray	(Signa	ture)		04	Date		DA	me:			8	111	67	sm	long	Ef	RED			
Reling	uished by	(Signature)			Date:	Time:	Recei	ved by:	gna	ture)			Date			me:	1			A	E	A	25	72	RID 6			
Reling	uished by	(Signature)		+	Date:	Time:	Recei	ved by:	Signs	iture)		+	Date	:	Tir	me:	1											
Matrix Contair	wv ner VO	V - Wastewa A - 40 ml via	ter	_	W - Water A/G - Ambe	S - Soll or / Or Glass	SD - So	olid 1	- Liqui 250 ml -	d A	- Air Ba	ag outh			rcoal tu		SL-	- sludg	0	0-	Oil							

CHAIN OF CHICTORY DECORD



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 15, 2016

Kyle Summers

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk MD 16" June 2016

OrderNo.: 1606707

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/14/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1606707

Date Reported: 6/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-3

Project: Trunk MD 16" June 2016

Collection Date: 6/13/2016 1:30:00 PM

Lab ID: 16

1606707-001

Matrix: MEOH (SOIL)

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3	i i		Analyst:	том
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/14/2016 10:23:55 AM	25830
Surr: DNOP	107	70-130	%Rec	1	6/14/2016 10:23:55 AM	25830
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	6/14/2016 11:41:22 AM	A34893
Surr: BFB	105	80-120	%Rec	1	6/14/2016 11:41:22 AM	A3489
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.019	mg/Kg	1	6/14/2016 11:41:22 AM	D34893
Toluene	ND	0.037	mg/Kg	1	6/14/2016 11:41:22 AM	D34893
Ethylbenzene	ND	0.037	mg/Kg	1	6/14/2016 11:41:22 AM	D34893
Xylenes, Total	ND	0.075	mg/Kg	1	6/14/2016 11:41:22 AM	D34893
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/14/2016 11:41:22 AM	D34893

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

- 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 Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606707

Date Reported: 6/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-4

Project:

Trunk MD 16" June 2016

Collection Date: 6/13/2016 1:40:00 PM

Lab ID: 1606707-002

Matrix: MEOH (SOIL)

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3				Analyst	том
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/14/2016 10:45:34 AM	25830
Surr: DNOP	109	70-130		%Rec	1	6/14/2016 10:45:34 AM	25830
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	6/14/2016 12:04:48 PM	A34893
Surr: BFB	106	80-120		%Rec	1	6/14/2016 12:04:48 PM	A3489
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.019		mg/Kg	1	6/14/2016 12:04:48 PM	D34893
Toluene	ND	0.038		mg/Kg	1	6/14/2016 12:04:48 PM	D34893
Ethylbenzene	ND	0.038		mg/Kg	1	6/14/2016 12:04:48 PM	D34893
Xylenes, Total	ND	0.075		mg/Kg	1	6/14/2016 12:04:48 PM	D34893
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/14/2016 12:04:48 PM	D34893

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

- 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 Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606707

Date Reported: 6/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-5

Project: Trun

Trunk MD 16" June 2016

Collection Date: 6/13/2016 1:50:00 PM

Lab ID: 16

1606707-003

Matrix: MEOH (SOIL)

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3	.50	13,00	Analyst	том
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/14/2016 11:07:16 AM	25830
Surr: DNOP	109	70-130	%Rec	1	6/14/2016 11:07:16 AM	25830
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	6/14/2016 12:28:14 PM	A34893
Surr: BFB	105	80-120	%Rec	1	6/14/2016 12:28:14 PM	A34893
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.018	mg/Kg	1	6/14/2016 12:28:14 PM	D34893
Toluene	ND	0.036	mg/Kg	1	6/14/2016 12:28:14 PM	D34893
Ethylbenzene	ND	0.036	mg/Kg	1	6/14/2016 12:28:14 PM	D34893
Xylenes, Total	ND	0.072	mg/Kg	1	6/14/2016 12:28:14 PM	D34893
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	6/14/2016 12:28:14 PM	D34893

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

- 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 Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606707

Date Reported: 6/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-6

Project: Trunk MD 16" June 2016

Collection Date: 6/13/2016 2:00:00 PM

Lab ID:

1606707-004

Matrix: MEOH (SOIL)

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	1			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/14/2016 11:28:54 AM	25830
Surr: DNOP	111	70-130	%Rec	1	6/14/2016 11:28:54 AM	25830
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	6/14/2016 12:51:41 PM	A34893
Surr: BFB	106	80-120	%Rec	1	6/14/2016 12:51:41 PM	A34893
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.018	mg/Kg	1	6/14/2016 12:51:41 PM	D34893
Toluene	ND	0.037	mg/Kg	1	6/14/2016 12:51:41 PM	D34893
Ethylbenzene	ND	0.037	mg/Kg	1	6/14/2016 12:51:41 PM	D34893
Xylenes, Total	ND	0.073	mg/Kg	1	6/14/2016 12:51:41 PM	D34893
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/14/2016 12:51:41 PM	D34893

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

- * 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 Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606707

Date Reported: 6/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-7

Project:

Trunk MD 16" June 2016

Collection Date: 6/13/2016 2:10:00 PM

Lab ID:

1606707-005

Matrix: MEOH (SOIL)

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	9.8	9.7	mg/Kg	1	6/14/2016 11:50:38 AM	25830
Surr: DNOP	111	70-130	%Rec	1	6/14/2016 11:50:38 AM	25830
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	6/14/2016 1:15:08 PM	A34893
Surr: BFB	115	80-120	%Rec	1	6/14/2016 1:15:08 PM	A3489
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	6/14/2016 1:15:08 PM	D34893
Toluene	ND	0.037	mg/Kg	1	6/14/2016 1:15:08 PM	D34893
Ethylbenzene	ND	0.037	mg/Kg	1	6/14/2016 1:15:08 PM	D34893
Xylenes, Total	ND	0.075	mg/Kg	1	6/14/2016 1:15:08 PM	D3489
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/14/2016 1:15:08 PM	D3489

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

- * 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 Page 5 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606707

Date Reported: 6/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-8

Project:

Trunk MD 16" June 2016

Collection Date: 6/13/2016 2:20:00 PM

Lab ID:

1606707-006

Matrix: MEOH (SOIL)

Received Date: 6/14/2016 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	NGE ORGANICS				Analyst	: ТОМ
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/14/2016 12:12:15 PM	25830
Surr: DNOP	111	70-130	%Rec	1	6/14/2016 12:12:15 PM	25830
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	6/14/2016 1:38:29 PM	A34893
Surr: BFB	107	80-120	%Rec	1	6/14/2016 1:38:29 PM	A34893
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.018	mg/Kg	1	6/14/2016 1:38:29 PM	D34893
Toluene	ND	0.035	mg/Kg	1	6/14/2016 1:38:29 PM	D34893
Ethylbenzene	ND	0.035	mg/Kg	1	6/14/2016 1:38:29 PM	D34893
Xylenes, Total	ND	0.070	mg/Kg	1	6/14/2016 1:38:29 PM	D34893
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/14/2016 1:38:29 PM	D34893

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

- * 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 Page 6 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606707

15-Jun-16

Client:

APEX TITAN

Project:

Trunk MD 16" June 2016

Sample ID LCS-25830

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS

Batch ID: 25830

RunNo: 34881

PQL

10

Prep Date: 6/14/2016

Analysis Date: 6/14/2016

SeqNo: 1077397

Units: mg/Kg

124

130

HighLimit

Analyte Diesel Range Organics (DRO)

45 4.5

50.00 5.000

89.4 89.4 62.6 70

LowLimit

%RPD **RPDLimit**

Qual

Surr: DNOP

Sample ID MB-25830

SampType: MBLK Batch ID: 25830

PQL

10

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 34881

Client ID: PBS Prep Date: 6/14/2016

Analyte

Analysis Date: 6/14/2016

SeqNo: 1077398

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC

Units: mg/Kg

HighLimit

Qual

Diesel Range Organics (DRO)

ND

Result

10.00

93.7

70

LowLimit

%RPD

RPDLimit

Surr: DNOP

9.4

130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Page 7 of 9

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606707

15-Jun-16

Client:

APEX TITAN

Project:

Trunk MD 16" June 2016

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: A34893

PQL

5.0

RunNo: 34893

Prep Date:

Analysis Date: 6/14/2016

SeqNo: 1078048

Units: mg/Kg

Analyte

Result ND SPK value SPK Ref Val

%REC LowLimit **HighLimit**

120

Qual

Gasoline Range Organics (GRO)

1100

1000

106

80

%RPD **RPDLimit**

Surr: BFB Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Client ID: LCSS

Batch ID: A34893

RunNo: 34893

Prep Date:

Analysis Date: 6/14/2016

SeqNo: 1078049

Units: mg/Kg

Analyte

120

120

RPDLimit Qual

Page 8 of 9

HighLimit Result PQL SPK value SPK Ref Val %REC LowLimit Gasoline Range Organics (GRO) 21 5.0 25.00 82.0 80 1200 80 Surr: BFB 1000 115

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range
- Analyte detected below quantitation limits J
 - Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606707

15-Jun-16

Client:

APEX TITAN

Project:

Trunk MD 16" June 2016

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

LowLimit

Client ID: PBS

Batch ID: D34893

RunNo: 34893

Prep Date:

Analysis Date: 6/14/2016

0.025

Batch ID: D34893

SeqNo: 1078090

Units: mg/Kg

HighLimit

%RPD

RPDLimit Qual

Benzene Toluene Ethylbenzene Xylenes, Total

Analyte

0.050 ND ND 0.050 ND 0.10 Surr: 4-Bromofluorobenzene 1.1

1.000

106

120

Sample ID 100NG BTEX LCS

SampType: LCS Client ID: LCSS

TestCode: EPA Method 8021B: Volatiles

RunNo: 34893

80

Units: mg/Kg

Prep Date:

Analysis Date: 6/14/2016

ND

SeqNo: 1078091

							-5		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0.97	0.025	1.000	0	96.6	75.3	123			
0.93	0.050	1.000	0	92.9	80	124			
0.91	0.050	1.000	0	90.9	82.8	121			
2.7	0.10	3.000	0	91.6	83.9	122			
1.1		1.000		112	80	120			
	0.97 0.93 0.91 2.7	Result PQL 0.97 0.025 0.93 0.050 0.91 0.050 2.7 0.10	0.97 0.025 1.000 0.93 0.050 1.000 0.91 0.050 1.000 2.7 0.10 3.000	Result PQL SPK value SPK Ref Val 0.97 0.025 1.000 0 0.93 0.050 1.000 0 0.91 0.050 1.000 0 2.7 0.10 3.000 0	Result PQL SPK value SPK Ref Val %REC 0.97 0.025 1.000 0 96.6 0.93 0.050 1.000 0 92.9 0.91 0.050 1.000 0 90.9 2.7 0.10 3.000 0 91.6	Result PQL SPK value SPK Ref Val %REC LowLimit 0.97 0.025 1.000 0 96.6 75.3 0.93 0.050 1.000 0 92.9 80 0.91 0.050 1.000 0 90.9 82.8 2.7 0.10 3.000 0 91.6 83.9	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.97 0.025 1.000 0 96.6 75.3 123 0.93 0.050 1.000 0 92.9 80 124 0.91 0.050 1.000 0 90.9 82.8 121 2.7 0.10 3.000 0 91.6 83.9 122	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 0.97 0.025 1.000 0 96.6 75.3 123 0.93 0.050 1.000 0 92.9 80 124 0.91 0.050 1.000 0 90.9 82.8 121 2.7 0.10 3.000 0 91.6 83.9 122	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.97 0.025 1.000 0 96.6 75.3 123 0.93 0.050 1.000 0 92.9 80 124 0.91 0.050 1.000 0 90.9 82.8 121 2.7 0.10 3.000 0 91.6 83.9 122

SPK value SPK Ref Val %REC

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 9 of 9



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

RcptNo: 1 **APEX AZTEC** Work Order Number: 1606707 Received by/date: Lindsay Mangin 6/14/2016 7:10:00 AM Logged By: 6/14/2016 7:35:20 AM Completed By: Lindsay Mangin A-06/4/14 Reviewed By: Chain of Custody Not Present Yes | No 🗌 1 Custody seals intact on sample bottles? No 🗆 Not Present Yes 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗆 No 🗌 4. Was an attempt made to cool the samples? NA 🗆 No 🔲 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No 🗌 Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 No 🐼 Yes 9. Was preservative added to bottles? No VOA Vials Yes No 🗌 10.VOA vials have zero headspace? Yes 🗌 No M 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗆 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗍 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 14 Is it clear what analyses were requested? Checked by: No 🗆 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🜌 16. Was client notified of all discrepancies with this order? Yes No 🔲 Person Notified: Date: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Condition Seal Intact | Seal No Cooler No Temp °C

																								MAIN	UF !	CUSTODY RECOR
Offic	e Localect Miler's N	anaç	nA		-	NM	Addi	SO#: _ er's Sign	All		ug	ue	ΛJΛ		a.l.	Red		STE								Lab use only Due Date: Temp. of coolers when received (C°): 1.3 1 2 3 4 5
Proj. I	No.	ecyun	Y	Proje	act N	ame	~~	,,,,,,,,			No/T	ype of C	Contair	ners	_		7	[]	/		/ /	′ /	/	/		
. 103. 1							16" -	Time .	2016		1,00	ypo o. c	Joresan			0	d,	3		/ /	/					
			-	Com	Ģ				_		4	(54	0_	2.	0		7 a	9	/ /		/	/	/	/		
Matrix	Da	te	Time	mp	a	Identifyir	ng Marks of S	ample(s)	Sta Dep	End Depth	VO	8 =	25 E	Se Se	2		/ /	/ /	/			//	/ /	/	Lab S	Sample ID (Lab Use Only)
5	413	16	1330			(25 -3)		X	1							11	006	707-001
1	1		1340			- 4	is-4							J.		X	1	- 1								-002
			1350				255)		X	Y			T						-003
			1400				cs -4							1		X	X									-004
			1410			(cs-7							1		L	1									-005
1	1	1	1420				CS-8							1		X	X									-00%
-												F. (4.5)										5.				
							1	115																		
No. of Control of Control	round		□ Nor	200		25% Rush	□ 50% F		100%			OM		Sa												
Reling	uishe	Toy ((Signature)	,		Date: 13/14	Time: 1734	Recei	red by:	(Signa	ature)	1-		Date 4/3/	1.1	П	34	NO	OTES:							Rush
Relino	ulshe	by ((Signature)	_		Date:	Time:	Recei	ved by:	(Signs	ature)			Date	: 1		me:	1			B	11 +	7	am L	one	EPROD
SW	- 1	7 11	u		1	e/13/14	1914	V	N	X			091			771		4			17	" /	,	-	-)	
Helino	uished	by ((Signature)			Date:	Time:	Hecen	ved by:	Signa	iture)			Date	.	n	me:					A	FE	AD	57	EPROD EPROD
Relino	uished	by ((Signature)		7	Date:	Time:	Recei	ed by:	Signa	ature)			Date): 	П	me:	1								
Matrix Contai	ner	wv	V - Wastewa A - 40 ml via	ter		W - Water A/G - Amb	S - Soil er / Or Glass	SD - So	lid l	L - Liqui	d A	- Air Ba	ag outh			rooal tu		SL-	sludge	,	0-0	N	_			



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

June 13, 2016

Kyle Summers

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk MD" 16 June 2016

OrderNo.: 1606518

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/10/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1606518

Date Reported: 6/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-1

Project: Lab ID: Trunk MD" 16 June 2016

1606518-001

Matrix: SOIL

Collection Date: 6/9/2016 10:00:00 AM Received Date: 6/10/2016 8:00:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analys	t: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/10/2016 10:51:02 AM	A 25775
Surr: DNOP	93.9	70-130	%Rec	1	6/10/2016 10:51:02 AM	A 25775
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	6/10/2016 11:01:39 AM	A 25767
Surr: BFB	106	80-120	%Rec	1	6/10/2016 11:01:39 AM	A 25767
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.018	mg/Kg	1	6/10/2016 11:01:39 AM	A 25767
Toluene	ND	0.035	mg/Kg	1	6/10/2016 11:01:39 AM	A 25767
Ethylbenzene	ND	0.035	mg/Kg	1	6/10/2016 11:01:39 AM	A 25767
Xylenes, Total	ND	0.071	mg/Kg	1	6/10/2016 11:01:39 AM	A 25767
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/10/2016 11:01:39 AM	A 25767

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

- 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606518

Date Reported: 6/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-2

Project:

Trunk MD" 16 June 2016

Collection Date: 6/9/2016 10:15:00 AM

Lab ID:

1606518-002

Matrix: SOIL

Received Date: 6/10/2016 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/10/2016 11:12:51 AM	25775
Surr: DNOP	95.5	70-130	%Rec	1	6/10/2016 11:12:51 AM	25775
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	6/10/2016 11:25:13 AM	25767
Surr: BFB	106	80-120	%Rec	1	6/10/2016 11:25:13 AM	25767
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	6/10/2016 11:25:13 AM	25767
Toluene	ND	0.037	mg/Kg	1	6/10/2016 11:25:13 AM	25767
Ethylbenzene	ND	0.037	mg/Kg	1	6/10/2016 11:25:13 AM	25767
Xylenes, Total	ND	0.074	mg/Kg	1	6/10/2016 11:25:13 AM	25767
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/10/2016 11:25:13 AM	25767

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

- 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 Page 2 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606518

13-Jun-16

Client:

APEX TITAN

Project:

Trunk MD" 16 June 2016

Troject, Trank			
Sample ID MB-25775	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 25775	RunNo: 34817	
Prep Date: 6/10/2016	Analysis Date: 6/10/2016	SeqNo: 1075086 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	12 10.00	118 70 130	
Sample ID LCS-25775	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 25775	RunNo: 34817	
Prep Date: 6/10/2016	Analysis Date: 6/10/2016	SeqNo: 1075087 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	49 10 50.00	0 97.7 62.6 124	
Surr: DNOP	4.9 5.000	99.0 70 130	
Sample ID MB-25735	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 25735	RunNo: 34817	
Prep Date: 6/8/2016	Analysis Date: 6/10/2016	SeqNo: 1075995 Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	12 10.00	120 70 130	
Sample ID LCS-25735	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 25735	RunNo: 34817	
Prep Date: 6/8/2016	Analysis Date: 6/10/2016	SeqNo: 1075996 Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	5.0 5.000	100 70 130	

- 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
- Page 3 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606518

13-Jun-16

Client:

APEX TITAN

Project:

Trunk MD" 16 June 2016

Sample ID MB-25767

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

Client ID:

Batch ID: 25767 Analysis Date: 6/10/2016

PQL

RunNo: 34832

%RPD

Prep Date: 6/9/2016

Units: mg/Kg

Analyte

Result

SeqNo: 1075796

ND

5.0

SPK value SPK Ref Val %REC LowLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

1100

1000

106

120

HighLimit

Client ID: LCSS

Sample ID LCS-25767

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 25767

PQL

5.0

RunNo: 34832

Prep Date: 6/9/2016

Analysis Date: 6/10/2016

SeqNo: 1075824

Units: mg/Kg **HighLimit**

Qual

Analyte Gasoline Range Organics (GRO)

Result

25.00

SPK value SPK Ref Val

86.7

%REC

80

%RPD **RPDLimit**

Surr: BFB

22 1100

1000

114

80

LowLimit

120 120

RPDLimit

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Page 4 of 5

- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606518

13-Jun-16

Client:

APEX TITAN

Project:

Trunk MD" 16 June 2016

TestCode: EPA Method 8021B: Volatiles Sample ID MB-25767 SampType: MBLK Client ID: **PBS** Batch ID: 25767 RunNo: 34832 Analysis Date: 6/10/2016 SeqNo: 1075966 Units: mg/Kg Prep Date: 6/9/2016 %RPD **RPDLimit** Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.025 Benzene ND ND 0.050 Toluene Ethylbenzene ND 0.050 ND 0.10 Xylenes, Total Surr: 4-Bromofluorobenzene 1.0 1.000 104 80 120

SampType: LCS Sample ID LCS-25767 Client ID: LCSS

TestCode: EPA Method 8021B: Volatiles

Batch ID: 25767 RunNo: 34832

Prep Date: 6/9/2016 Analysis Date: 6/10/2016 SegNo: 1075967 Units: mg/Kg

The state of the s			A CONTRACTOR OF THE PARTY OF TH					•			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	103	75.3	123				
Toluene	1.0	0.050	1.000	0	102	80	124				
Ethylbenzene	0.98	0.050	1.000	0	97.8	82.8	121				
Xylenes, Total	2.9	0.10	3.000	0	98.2	83.9	122				
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120				

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range
- Analyte detected below quantitation limits
- Page 5 of 5

- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Albuquerque, NM 87109 Sample Log-In Check List

Client Name:	APEX AZTEC	Work Order Number	er: 1606518		RcptNo:	1
Received by/da	te: A 06/1	10/16				
Logged By:	Anne Thome	6/10/2016 8:00:00 A	М	an Ilm	_	
Completed By:	Anne Thome	6/10/2016		am Im	_	
Reviewed By:	JO	06/10/14				
Chain of Cus	stody	- /				
1. Custody se	als intact on sample bot	lles?	Yes 🗆	No 🗆	Not Present	
2. Is Chain of	Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was th	ne sample delivered?		Courier			
Log In						
4. Was an att	empt made to cool the s	amples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all sa	imples received at a term	perature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient s	ample volume for indicat	ted test(s)?	Yes 🗹	No 🗆		
8. Are sample	s (except VOA and ONG	b) properly preserved?	Yes 🗹	No 🗆		
9. Was preser	rvative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials	nave zero headspace?		Yes 🗆	No 🗆	No VOA Vials	
11. Were any	sample containers receiv	red broken?	Yes	No 🗹	# of preserved	
A PARTY					bottles checked	
4.757-0.75	rwork match bottle labels epancies on chain of cus		Yes 🗹	No 🗆	for pH:	r>12 unless noted)
A STATE OF THE STA	epartices on chain of cus as correctly identified on		Yes 🗹	No 🗆	Adjusted?	
1	hat analyses were reque		Yes 🗹	No 🗆		
	olding times able to be m y customer for authorizat		Yes 🗹	No 🗆	Checked by:	
(ii no, nous	Customer for authorizat	ion.,				
Special Han	dling (if applicable	2				
16. Was client	notified of all discrepand	ies with this order?	Yes 🗌	No 🗆	NA 🗹	
Perso	on Notified:	Date		1] .
By W	fhom:	Via:	eMail	Phone Fax	In Person	,
Rega	rding:					
Clien	t Instructions:				vana*	
17. Additional	remarks:					-
18. Cooler Inf	formation					
Cooler I		ion Seal Intact Seal No	Seal Date	Signed By		
1	1.0 Good	Yes				

								s contract										TAIN U	F CUSTODT RECORD
	PE)	٨	zteo	44	Μ	Laboratory: Address: Contact: Phone:	H A	pvq	uq	ue	NW.	ta.1		ANALYSIS REQUESTED	///				Temp. of coolers when received (C°): 1 2 3 4 5 Page
Proie	ect Mana	ager K	Su	m	ners	PO/SO#: _							_	/ %	9 / /	//	/ /	//	
	ler's Name		-			Sampler's Signa	ature							# K		//	/	/ /	
R	anee	Deed	Mir	,	A	Due		200						Sale Pitz	//	//	//	/ /	
Proj. I			_	ect Na	ame				No/Ty	ype of C	contain	ers		214	///		/ /	/	
				T	runk M	0"16 Jur	ne 20	16						Jag Sole	/ / /	//	/ /	/	
Matrix	Date	Time	CoEn	Grap	Identifying Ma	rks of Sample(s)	Start	End	VOA	A/G	250 III	Glass	P/O	1 7 7 /	//	1.		/ .	ab Sample ID (Lab Use Only)
9	6/9/14	1000			CS	-1						1		XX				140	1518-00
		1015			CS							1		XX					TOUZ
	1 118	1																	
		\downarrow														\top			
_																	+		. **
		-	_												++		+		
						ARX									++	++	1		
_												_	_		++		+		1."
		-											_		++-	++	++		· · · · · · · · · · · · · · · · · · ·
		+	-							-		_			++	++	+		
Turn a	round time	D No	rmal	0:	25% Rush (50% Rush	100%	Rush	-	NO.	9 4	50							
Palin	uriched by	/Clanatura			Date:	Time:_ Receiv			ture)	n 1.		Date	5	1458 NO	TES:				P. 1
Relinc	quished by	(Signature	3	1	Date:	Time: Fleasing	ed by:	(Signa	luje)	_		Date	Tol	Time:	B	ADE	Tom	Long 2572	EPPOID PUS A
Relino	quished by	(Signature		1	Date:	Time: Receiv	ed by:	(Signa	iture)			Date		Time:	•	46	, ,	×3 7 a	0
Relino	quished by	(Signature)		Date:	Time: Receiv	red by:	(Signa	ature)	(-1)		Date		Time:					
Matrix	ner V	/W - Wastewi OA - 40 ml vi	ater		W - Water	S - Soil SD - So	lid I	- Liqui	d A	- Air B	ag outh	C	- Che	rcoal tube SL -	sludge	0 - 01			

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

Form C-141 Revised August 8, 2011

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

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

		F	Releas	e Notifica	tion and C	orrective	Acti	on			
					OPERATO	R	Σ	Initial	Report		Final Report
		Enterprise I				homas Long				Ţ,	
		Ave, Farmin				No. 505-599-			n Dinalia	_	
Facility Na	me: MAPL	Line ID 69	6 AID 14	11 – 3 Inch	Facility Ty	pe: Natural G	as i ra	nsmissi	on Pipelin	е	
Surface Ov	wner: Nav	ajo Nation		Mineral O	wner: Navajo N	ation		Serial	Number: N	NA .	
				LOCA"	TION OF RE	LEASE					
Unit Letter	Section 22	Township 29N	Range 14W	Feet from the 2351	North South Line	Feet from the 318	East	West	County San Juan	1	(7. ⁴)
			L	atitude <u>36.71</u>	1670 Longitu	de <u>-108.2891</u>	90	@	*		
200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1, 51 1		NATU	JRE OF REL	EASE					
Type of Rel						Release Unkno		A TAXABLE DAY OF LANCON	Recovered	Company of the Company	Control of the latest and the latest
Source of R	elease: Pip	eline Rupture	Э			lour of Occurrer @ 11:30 a.m.	ice:		d Hour of D 16 @ 11:30		ery:
Was Immed	liate Notice	Given?				Whom? Vaness	a Fields				NNEPA
			s 🗌 No	Not							
Required									OIL CONS.	עוט.	DIST. 3
By Whom?						ime 8/17/2016 (@ 2:36	p.m.	OFD	0 1 2	010
Was a Wate	ercourse Re		☐ Yes	⊠ No	If YES, Vol	ume			SEP	012	UID
If a Waterco	urse was li	mpacted, Des	scribe Full	v.*							*
		and Cleanu luded with th			emove the contar	ninant mass by	mechar	nical exca	vation. A thi	rd part	ty corrective
rules and re which may e relieve the o ground water	gulations a endanger poperator of l er, surface	Il operators a ublic health o liability should water, humar	re require or the envi d their ope n health or	d to report and/ ronment. The a erations have fa the environmen	omplete to the be or file certain rele acceptance of a C iled to adequate nt. In addition, N al, state, or local	ease notification c-141 report by t y investigate and MOCD acceptan laws and/or regu	s and po the NMC d remed nce of a ulations.	erform cor OCD mark liate conta C-141 re	rective actions and action as "Fina amination the port does no	ons for I Repo at pos ot relie	r releases ort" does not e a threat to
Signature:	MI	· tul				OIL CON	SER	VALION	DIVIDIO	N	
Printed Nan	ne: Jon E. F	Fields	,		Approved t	y Environmenta	al Specia	alist:	noss	270	5
Title: Direct	or, Field En	vironmental			Approval D	ate: 91712	مااد	Expiration	Date:		
E-mail Addr	ess:jefields	@eprod.com			Conditions	of Approval:			Attached	d []	et (107)
Duto.	126/2016			ne: (713)381-66	B4 NVF	162514	204	7			
		ets If Neces	ssary		Sant	negrea ous é 800 moling n	180	1080			M
	Author To										

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

Form C-141
Revised August 8, 2011

1 Copy to appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

		F	Releas	e Notifica	atio	n and C	orrective	Acti	on			
					0	PERATOR	₹] Initia	al Report	\boxtimes	Final Report
		Enterprise F					nomas Long	0000				
		ve, Farmin		8/401	2 5		No. 505-599- be: Natural G		er Tub	Δ		
								as met				
Surface O	wner: Nava	ajo Nation/	NAPI	Mineral O	wne	r: Navajo Na	ation/NAPI		Seria	l Number:		
						N OF REL		_				
Unit Letter	Section 12	Township 27N	Range 12W	Feet from the 645	No Lin	rth/Couth	Feet from the 1014	East	West	San Jua	ın	
	12	2/14	1244	ule 043	LIII	В	uie 1014	Line		OIL CONS	עום	DICT O
	OIL CONS. DIV DIST. 3 Latitude 36.58412 Longitude -108.05758											
	NATURE OF RELEASE AUG 1 2 2016											
Type of Rel	ease: Natur	al Gas and C	Condensat	е		Gas; 5-10 b	telease 0.3 MC bls Condensa	te		e Recovere		
Source of R	elease: Fail	ed Gasket o	n a Meter	Tube			our of Occurrent 12:11 p.m.	ice:		nd Hour of I 016 @ 12:1		
Was Immed	liate Notice			D		If YES, To V	Vhom? Courtes	y Notific				
Required		∐ Yes	s 📙 No	⊠ Not		Austin-NNE	PA					
By Whom?							me April 26, 20	16@ 7:	32 a.m.			
Was a Wate	ercourse Re		☐ Yes	⊠ No		If YES, Volu	me					
If a Waterco	ourse was In	npacted, Des	scribe Full	y.*								
Edgar Fede	ral #7 mete	r tube. The n	neter tube	was isolated, I	blowr	down, locked	e technician dis d out and tagge Repairs and r	ed out.	An area	of soil staini	ng of	
approximate were excava	ely 68 feet k ated and tra	ong by 50 fee	et wide rar a New Me	nging from 10 t	0 12	feet deep. Ap	red by mechan proximately 44 proved land far	5 cubic	yards of	f hydrocarbo	n imp	acted soil
rules and re which may relieve the o ground water	gulations al endanger pu perator of li er, surface v	I operators a ublic health o lability should vater, human	re require or the envir d their ope n health or	d to report and ronment. The a erations have fa the environme	or fil acce ailed ent. I	le certain releat ptance of a C- to adequately n addition, NN	st of my knowle ase notifications 141 report by t investigate and MOCD acceptar aws and/or regu	s and pe he NMC d remed nce of a	erform co OCD mar liate con C-141 r	orrective act rked as "Fin tamination t	ions fo al Rep hat po	or releases ort" does not se a threat to
Signature:	In) Fula					OIL CON	ISER\	OLTAV	N DIVIS	ON	1
Printed Nam	e lon E E	ielde							()	Dag.	>	2
							Environmenta			CI OND	-	
Title: Directo	or, Environn	nental				Approval Da	ite: 4 9915	1016	Expiration	on Date:		
E-mail Addr	ess:jefields(@eprod.com	1			Conditions of				Attache	ed 🗆	
Date: * Attach Addi	8-8-			e: (713)381-66	84	MFI	616830	109				

54

OIL CONS. DIV DIST. 3 AUG 1 2 2016

Edgar Federal #7 Pipeline Valve Release Report

UL P, Sec 12, Township 27N, Range 12W San Juan County, New Mexico

July 8, 2016

Prepared for: Enterprise Field Services, LLC 614 Reilly Avenue Farmington, New Mexico 87401

Prepared by:
Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401



Enterprise Field Services, LLC Edgar Federal #7 Pipeline Valve Release Report

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401

Heather M. Woods, P.G., Area Manager

Reviewed by:

Russell Knight, PG, Principal Hydrogeologist

July 8, 2016

Table of Contents

1.0	Introduction	1
2.0	Release Summary	1
	NNEPA/NMOCD Site Ranking	
4.0	Field Activities	2
5.0	Soil Sampling	2
	Laboratory Analytical Results	
7.0	Conclusions	3
8.0	Closure and Limitations	4

Tables

Table 1 NNEPA/NMOCD Site Ranking Determination

Table 2 Laboratory Analytical Results

Figures

Figure 1 Topographic Map Figure 2 Aerial Site Map

Appendices

Appendix A Executed C-138 Solid Waste Acceptance Forms

Appendix B Photograph Log

Appendix C Analytical Laboratory Report



1.0 Introduction

The Enterprise Field Services, LLC (Enterprise) Edgar Federal #7 pipeline valve release site is located in Unit Letter P, Section 12, Township 27 North, Range 12 West, in San Juan County, New Mexico. The release resulted from failure of a gasket in the downstream valve on the meter run and was discovered on March 13, 2016.

On April 25, 2016, Enterprise initiated repair activities at the location. Site work included the repair of the valve and excavation of hydrocarbon impacted soils.

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

2.0 Release Summary

Site Name	Edgar Federal #7 Pipeline Valve Release								
Site Location Description	Unit Letter P, Section 12, Township 27 North, Range 12 West (N36.58432, W108.05709)								
Land Jurisdiction	Navajo Nation								
Discovery Date	March 13, 2016								
Release Report Date	March 13, 2016	Reported by	Thomas Long						
Agency Notification	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico Oil Conservation Division (NMOCD)								
Release Source	Valve on downstream side of meter run								
Substance(s) Released	Natural Gas and Pipeline Liquids								
NNEPA/NMOCD Site Rank	10								
Distance to Nearest Surface Water	A stock pond is loca release location	ted approximately 45	0 feet north of the						
Estimated Depth to Groundwater	Greater than 100 feet below grade surface (bgs)	Distance to Nearest Water Well or Spring	Greater than 1,000 feet						
Contractor	West State Energy Contractors (West States)	Repair Excavation Dimensions	68 feet by 50 feet by 10 to 12 feet in depth						
Volume of Soil Transported to for Disposal/Remediation	545 cubic yards	Disposal Facility	Envirotech Landfarm (Permit #: NM 01-0011						



A portion of each sample was field screened for volatile organic compounds (VOCs) and selected samples were field analyzed for TPH. Field screening for VOC vapors was conducted with a photoionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field analysis for TPH was conducted for selected samples per USEPA Method 418.1, utilizing a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B and TPH (GRO/DRO) per USEPA 8015D. Laboratory analytical results are summarized in Table 2, and the analytical laboratory reports are included in Appendix C.

6.0 Laboratory Analytical Results

Laboratory analytical results for excavation confirmation samples SC-1 through SC-12, as well as stockpile samples SP-1 through SP-4, reported benzene concentrations ranging from below the laboratory reporting limits to 3.2 mg/kg, which are below the applicable NNEPA/NMOCD action levels. Laboratory analytical results for confirmation samples SC-1 through SC-12 (except for SC-4 removed by excavation), as well as stockpile samples SP-1 through SP-4, reported total BTEX concentrations ranging from below the laboratory reporting limits to 47 mg/kg, which are below the applicable NNEPA/NMOCD action levels. Laboratory analytical results for confirmation samples SC-1 through SC-12 (except for SC-4 removed by excavation), as well as stockpile soil samples SP-1 through SP-4, reported TPH (GRO/DRO) concentrations ranging from below laboratory reporting limits to 430 mg/kg, which are below the NNEPA/NMOCD action level of 1,000 mg/kg for a site rank of 10. Laboratory analytical results are summarized in Table 2, and the analytical laboratory reports are included in Appendix C.

7.0 Conclusions

The Enterprise Edgar Federal #7 pipeline valve release site is located in Unit Letter P, Section 12, Township 27 North, Range 12 West, in San Juan County, New Mexico. The release resulted from failure of a gasket in the downstream valve on the meter run and was discovered on March 13, 2016. The repair activities included the repair of the valve and excavation of the hydrocarbon impacted soils. Confirmation samples were collected from the sidewalls and base of the resultant repair excavation which measured approximately 68 feet by 50 feet by 10 to 12 feet in depth. Samples were also collected from selected stockpiled soils for laboratory analysis. Laboratory analytical results for the soil confirmation samples SC-1 through SC-12 (excluding SC-4 removed by excavation), as well as samples collected from the selected stockpiled soils (SP-1 through SP-4), reported benzene, total BTEX, and total TPH (GRO/DRO) concentrations below the



Tables



Table 1. NNEPA/NMOCD Site Ranking Determination Enterprise Field Services, LLC Edgar Federal #7 Pipeline Valve Release San Juan County, New Mexico

Ranking Criteria	Ranking	Site-Based	Basis for Determination	Data	
	Score	Ranking Score		Sources	
Depth to Groundwater	10.7				
<50 feet	20			NMOCD Online database,	
50-99 feet	10	0	Elevation differential information derived from the topographic map of the area.	Gallegos Trading Post Quadrangle, Google Earth, and Visual Inspection	
>100 feet	0			and violat mopestion	
Vellhead Protection Area					
<1,000 feet from a water source, or <200 feet	20 (Yes)	0	No water source or recorded water wells within 1,000	NMOSE NMWRRS, Gallegos Trading Post	
from private domestic water source	0 (No)		foot radius of location.	Quadrangle, Google Earth, and Visual Inspection	
Distance to Surface Water Body					
<200 horizontal feet	20			Gallegos Trading Post	
200 to 1,000 horizontal feet	10	10	A stock pond is located approximately 450 feet north of release location.	Quadrangle, Google Earth,	
>1,000 horizontal feet	0			and Visual Inspection	
Site Based Total Rank	ing Score	10			



Table 2. Laboratory Analytical Results Enterprise Field Services, LLC Edgar Federal #7 Pipeline Valve Release San Juan County, New Mexico

Sample Name	Date	Sample Location	Approximate Sample Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylben- zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)
		NNEPA/NMOC	D Action Level*	10	NE	NE	NE	50	1,0	00**
				Samples Ren	noved by Exc	avation				
SC-4	5/3/2016	NE Base	10 to 12	3.2	43	7.1	67	120	890	290
			E	xcavation C	onfirmation	Samples				
SC-1	5/3/2016	SE Base	10 to 11	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.5
SC-2	5/3/2016	SE Wall (Lower)	6 to11	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7
SC-3	5/3/2016	East Wall (Lower)	6 to 12	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.3
SC-5	5/3/2016	NW Base	10 to 12	0.88	14	2.9	29	47	300	130
SC-6	5/3/2016	SE Wall (Upper)	0.5 to 6	<0.024	< 0.047	<0.047	<0.094	<0.212	<4.7	<9.4
SC-7	5/3/2016	West Wall (Lower)	6 to 12	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.6
SC-8	5/3/2016	East Wall (Upper)	0.5 to 6	<0.025	<0.050	< 0.050	<0.099	<0.224	<5.0	<9.9
SC-9	5/3/2016	North Wall (Upper)	0.5 to 6	<0.025	0.10	<0.049	0.24	0.34	<4.9	<9.6
SC-10	5/3/2016	North Wall (Lower)	6 to 12	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.9
SC-11	5/3/2016	West Wall (Upper)	0.5 to 6	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.8
SC-12	5/9/2016	NE Base	10 to 12	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.8
				Stockpile Co	nfirmation S	amples	7.3			4
SP-1	5/3/2016	Stockpile	-	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.5
SP-2	5/3/2016	Stockpile		<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.5
SP-3	5/3/2016	Stockpile		<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	12
SP-4	5/3/2016	Stockpile	-	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.4

Notes: ft bgs - feet below grade surface

mg/kg - milligrams per kilogram

NNEPA - Navajo Nation Environmental Protection Agency

NMOCD - New Mexico Oil Conservation Division

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

NE - not-established

ND - not detected above laboratory reporting limits

^{**}Based on a site ranking of 10



^{*}Based on the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 1993)

Figures



1.0 Introduction

The Enterprise Field Services, LLC (Enterprise) Edgar Federal #7 pipeline valve release site is located in Unit Letter P, Section 12, Township 27 North, Range 12 West, in San Juan County, New Mexico. The release resulted from failure of a gasket in the downstream valve on the meter run and was discovered on March 13, 2016.

On April 25, 2016, Enterprise initiated repair activities at the location. Site work included the repair of the valve and excavation of hydrocarbon impacted soils.

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

2.0 Release Summary

Site Name	Edgar Federal #7 Pi	peline Valve Release	DE TRANSPORTO						
Site Location Description	Unit Letter P, Section 12, Township 27 North, Range 12 West (N36.58432, W108.05709)								
Land Jurisdiction	Navajo Nation								
Discovery Date	March 13, 2016								
Release Report Date	March 13, 2016	Reported by	Thomas Long						
Agency Notification	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico Oil Conservation Division (NMOCD)								
Release Source	Valve on downstream	m side of meter run	Constant Constant						
Substance(s) Released	Natural Gas and Pipeline Liquids								
NNEPA/NMOCD Site Rank	10								
Distance to Nearest Surface Water	A stock pond is loca release location	ted approximately 45	0 feet north of the						
Estimated Depth to Groundwater	Greater than 100 feet below grade surface (bgs)	Distance to Nearest Water Well or Spring	Greater than 1,000 feet						
Contractor	West State Energy Contractors (West States)	Repair Excavation Dimensions	68 feet by 50 feet by 10 to 12 feet in depth						
Volume of Soil Transported to for Disposal/Remediation	545 cubic yards	Disposal Facility	Envirotech Landfarm (Permit #: NM 01-0011						

TOWNSTO TO

3.0 NNEPA/NMOCD Site Ranking

The release site is located on the Navajo Nation under the jurisdiction of the NNEPA. Based on NNEPA recommendations, remediation of soils associated with natural gas and condensate releases are assigned a rank in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 10 (Table 1).

Depth to groundwater at the site is estimated to be greater than 100 feet bgs based on the elevation differential between the release location and large washes in the area. A review was completed of the New Mexico Office of the State Engineer online New Mexico Water Rights Reporting System and no water wells were identified within a 1,000 foot radius of the location. No water wells were observed within a 1,000 foot radius of the location during a visual inspection. A stock pond is located approximately 450 feet north of the release location.

Based on the ranking score of 10, action levels for remediated soils at the site are as follows: 10 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

4.0 Field Activities

On April 25, 2016, Enterprise initiated repair activities at the location. West States provided heavy equipment operation and repair support. Rule Engineering, LLC (Rule) personnel provided excavation guidance and collected confirmation samples from the resultant excavation. The final excavation measured approximately 68 feet by 50 feet by 10 to 12 feet in depth. Approximately 542 cubic yards of soil were transported to the Envirotech Landfarm near Bloomfield, New Mexico for disposal/remediation. The excavation was backfilled with clean, imported material and the stockpiled soils shown to be reusable by laboratory analysis.

A depiction of the excavation with sample locations and summary of analytical results is included as Figure 2. A copy of the executed C-138 Solid Waste Acceptance Forms are included in Appendix A. A photograph log is included in Appendix B.

5.0 Soil Sampling

Rule collected confirmation excavation soil samples (SC-1 through SC-12) from the sidewalls and base of the excavation and stockpile samples (SP-1 through SP-4) from selected stockpiled soils. The northeast portion of the base sampled as SC-4 exceeded the NNEPA/NMOCD action levels for total BTEX and TPH (GRO/DRO). The northeast portion of the base was further excavated and resampled on May 9, 2016, as confirmation sample SC-12. Each confirmation soil sample is a representative composite comprised of five equivalent aliquots of soil collected from the sampled area.

A portion of each sample was field screened for volatile organic compounds (VOCs) and selected samples were field analyzed for TPH. Field screening for VOC vapors was conducted with a photoionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field analysis for TPH was conducted for selected samples per USEPA Method 418.1, utilizing a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B and TPH (GRO/DRO) per USEPA 8015D. Laboratory analytical results are summarized in Table 2, and the analytical laboratory reports are included in Appendix C.

6.0 Laboratory Analytical Results

Laboratory analytical results for excavation confirmation samples SC-1 through SC-12, as well as stockpile samples SP-1 through SP-4, reported benzene concentrations ranging from below the laboratory reporting limits to 3.2 mg/kg, which are below the applicable NNEPA/NMOCD action levels. Laboratory analytical results for confirmation samples SC-1 through SC-12 (except for SC-4 removed by excavation), as well as stockpile samples SP-1 through SP-4, reported total BTEX concentrations ranging from below the laboratory reporting limits to 47 mg/kg, which are below the applicable NNEPA/NMOCD action levels. Laboratory analytical results for confirmation samples SC-1 through SC-12 (except for SC-4 removed by excavation), as well as stockpile soil samples SP-1 through SP-4, reported TPH (GRO/DRO) concentrations ranging from below laboratory reporting limits to 430 mg/kg, which are below the NNEPA/NMOCD action level of 1,000 mg/kg for a site rank of 10. Laboratory analytical results are summarized in Table 2, and the analytical laboratory reports are included in Appendix C.

7.0 Conclusions

The Enterprise Edgar Federal #7 pipeline valve release site is located in Unit Letter P, Section 12, Township 27 North, Range 12 West, in San Juan County, New Mexico. The release resulted from failure of a gasket in the downstream valve on the meter run and was discovered on March 13, 2016. The repair activities included the repair of the valve and excavation of the hydrocarbon impacted soils. Confirmation samples were collected from the sidewalls and base of the resultant repair excavation which measured approximately 68 feet by 50 feet by 10 to 12 feet in depth. Samples were also collected from selected stockpiled soils for laboratory analysis. Laboratory analytical results for the soil confirmation samples SC-1 through SC-12 (excluding SC-4 removed by excavation), as well as samples collected from the selected stockpiled soils (SP-1 through SP-4), reported benzene, total BTEX, and total TPH (GRO/DRO) concentrations below the

Rule

applicable NNEPA/NMOGA action levels. Approximately 542 cubic yards of soil and to Envirotech Landfarm for disposal/remediation. The repair excavation was backfilled with clean, imported material and the stockpiled soils shown to be reusable by laboratory analysis.

Based on laboratory analytical results of the confirmation soil samples, no further work is recommended.

8.0 Closure and Limitations

This report has been prepared for the exclusive use of Enterprise and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with Enterprise. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.



Tables



Table 1. NNEPA/NMOCD Site Ranking Determination Enterprise Field Services, LLC Edgar Federal #7 Pipeline Valve Release San Juan County, New Mexico

Ranking Criteria	Ranking	Site-Based	Basis for Determination	Data		
	Score Ranking Scor			Sources		
Depth to Groundwater						
<50 feet	20			NMOCD Online database, Gallegos Trading Post Quadrangle, Google Earth, and Visual Inspection		
50-99 feet	10	0	Elevation differential information derived from the topographic map of the area.			
>100 feet	0					
Wallhard Destantion Area						
Wellhead Protection Area						
<1,000 feet from a water source, or <200 feet	20 (Yes)	0	No water source or recorded water wells within 1,000	NMOSE NMWRRS, Gallegos Trading Post Quadrangle, Google Earth, and Visual Inspection		
from private domestic water source	0 (No)	o l	foot radius of location.			
Distance to Surface Water Body			· · · · · · · · · · · · · · · · · · ·			
<200 horizontal feet	20		A start and is larged an array in state 450 feet and buff	Gallegos Trading Post		
200 to 1,000 horizontal feet	10	10	A stock pond is located approximately 450 feet north of release location.	Quadrangle, Google Earth,		
>1,000 horizontal feet	0			and Visual Inspection		
Site Based Total Rank	ing Score	10				



Table 2. Laboratory Analytical Results Enterprise Field Services, LLC Edgar Federal #7 Pipeline Valve Release San Juan County, New Mexico

Sample Name	Date	Sample Location	Approximate Sample Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylben- zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)
	•	NNEPA/NMOC	D Action Level*	10	NE	NE	NE	50	1,0	00**
				Samples Ren	noved by Ex	avation				
SC-4	5/3/2016	NE Base	10 to 12	3.2	43	7.1	67	120	890	290
	•		Ė	xcavation C	onfirmation	Samples				
SC-1	5/3/2016	SE Base	10 to 11	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.5
SC-2	5/3/2016	SE Wall (Lower)	6 to11	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7
SC-3	5/3/2016	East Wall (Lower)	6 to 12	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.3
SC-5	5/3/2016	NW Base	10 to 12	0.88	14	2.9	29	47	300	130
SC-6	5/3/2016	SE Wall (Upper)	0.5 to 6	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.4
SC-7	5/3/2016	West Wall (Lower)	6 to 12	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.6
SC-8	5/3/2016	East Wall (Upper)	0.5 to 6	<0.025	<0.050	< 0.050	<0.099	<0.224	<5.0	<9.9
SC-9	5/3/2016	North Wall (Upper)	0.5 to 6	<0.025	0.10	<0.049	0.24	0.34	<4.9	<9.6
SC-10	5/3/2016	North Wall (Lower)	6 to 12	<0.025	< 0.049	<0.049	<0.099	<0.222	<4.9	<9.9
SC-11	5/3/2016	West Wall (Upper)	0.5 to 6	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.8
SC-12	5/9/2016	NE Base	10 to 12	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.8
				Stockpile Co	nfirmation S	amples				
SP-1	5/3/2016	Stockpile	-	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.5
SP-2	5/3/2016	Stockpile	-	< 0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.5
SP-3	5/3/2016	Stockpile		<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	12
SP-4	5/3/2016	Stockpile	-	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.4

Notes:

ft bgs - feet below grade surface

mg/kg - milligrams per kilogram

NNEPA - Navajo Nation Environmental Protection Agency

NMOCD - New Mexico Oil Conservation Division

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

NE - not-established

ND - not detected above laboratory reporting limits

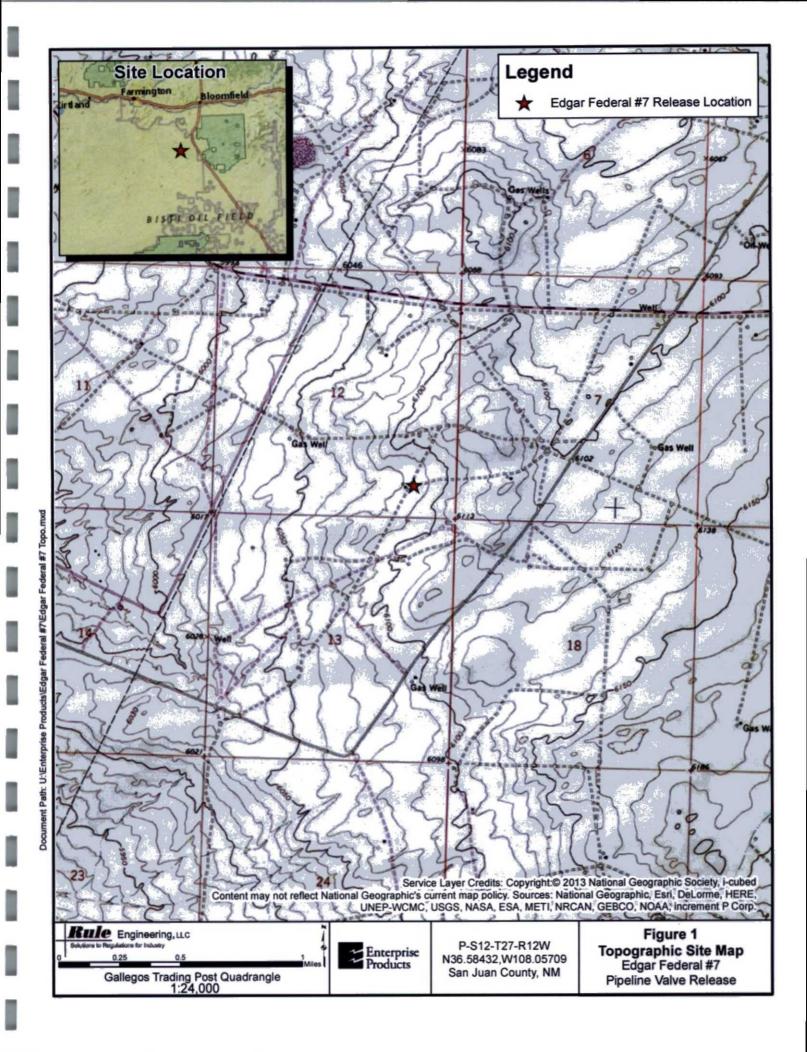


^{*}Based on the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 1993)

^{**}Based on a site ranking of 10

Figures





Appendix A

Executed C-138 Solid Waste Acceptance Form



97057-0771

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

Form C-138
Revised August 1, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 *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 Avenue, Farmington, NM 87401 April / May 30	مالا
2. Originating Site: Edgar Federal #7	
3. Location of Material (Street Address, City, State or ULSTR): Unit Letter P Section 12 Township 27 North Range 12 West; 36.58412 108.05758	
 Source and Description of Waste: Hydrocarbon impacted soil from excavation activities associated with a meter tube release. Estimated Volume20yd / bbls Known Volume (to be entered by the operator at the end of the haul)542yd 	bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	
I, Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July regulatory determination, the above described waste is: (Check the appropriate classification)	ly 1988
□ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with exempt waste. □ Operator Use Only: Waste Acceptance Frequency □ Monthly □ Weekly □ Per Load	non-
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazar characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. the appropriate items)	261,
☐ 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	
1, 4-25-16, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to Generator Signature	
complete the required testing/sign the Generator Waste Testing Certification.	
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the shave been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The roof the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	samples results
6. Transporter: West State Energy Contractors	
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 ☐ Landfill ☐ Other	
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent R	ecord)
PRINT NAME: Gran Crabter TITLE: Environmental Mamager DATE: 4/25/16	
SIGNATURE: TELEPHONE NO.: 505-632-0615 Surface Waste Management Facility Authorized Agent	

Appendix B
Photograph Log







Photograph #1

Client: Enterprise

Site Name:

Edgar Federal #7 Pipeline Valve Release

Date Photo Taken: May 3, 2016

Release Location: N36.58432, W108.05709 P-12-27N-12W San Juan County, NM

Photo Taken by: Justin Valdez

Description: Facing northeast, view of the final excavation.

Photograph #2

Client: Enterprise

Site Name:

Edgar Federal #7 Pipeline Valve Release

Date Photo Taken: May 3, 2016

Release Location: N36.58432, W108.05709 P-12-27N-12W San Juan County, NM

> Photo Taken by: Justin Valdez

Description: Facing northwest, view of the final excavation.

Photograph Log Edgar Federal #7 Pipeline Valve Release Enterprise Field Services, LLC



Photograph #3

Client: Enterprise

Site Name:

Edgar Federal #7 Pipeline Valve Release

Date Photo Taken: May 3, 2016

Release Location: N36.58432, W108.05709 P-12-27N-12W San Juan County, NM

> Photo Taken by: Justin Valdez



Description: Facing west, view of the final excavation.

Photograph #4

Client: Enterprise

Site Name:

Edgar Federal #7
Pipeline Valve
Release

Date Photo Taken: May 3, 2016

Release Location: N36.58432, W108.05709 P-12-27N-12W San Juan County, NM

> Photo Taken by: Justin Valdez

Description: Facing east, view of the final excavation.

Appendix C Analytical Laboratory Report





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

May 09, 2016

Heather Woods

Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401

TEL: (505) 325-1055

FAX

RE: Enterprise Edgar Federal 7

OrderNo.: 1605109

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 11 sample(s) on 5/4/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605109-001

Client Sample ID: SC-1

Collection Date: 5/3/2016 3:45:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	i			Analysi	КЈН
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/4/2016 7:42:47 PM	25140
Surr: DNOP	93.1	70-130	%Rec	1	5/4/2016 7:42:47 PM	25140
PA METHOD 8015D: GASOLINE RANGE					Analysi	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 10:47:49 AM	25141
Surr: BFB	91.8	80-120	%Rec	1	5/5/2016 10:47:49 AM	25141
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2016 10:47:49 AM	25141
Toluene	ND	0.048	mg/Kg	1	5/5/2016 10:47:49 AM	25141
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 10:47:49 AM	25141
Xylenes, Total	ND	0.096	mg/Kg	1	5/5/2016 10:47:49 AM	25141
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	5/5/2016 10:47:49 AM	25141

Matrix: SOIL

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

- 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 Page 1 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Enterprise Edgar Federal 7

1605109-002 Lab ID:

Project:

Client Sample ID: SC-2

Collection Date: 5/3/2016 3:50:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 8015M/D: DIESEL RAN	NGE ORGANICS	3		4	Analyst			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/4/2016 8:04:28 PM	25140		
Surr: DNOP	96.0	70-130	%Rec	1	5/4/2016 8:04:28 PM	25140		
EPA METHOD 8015D: GASOLINE RA		Analyst	NSB					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 11:12:27 AM	25141		
Surr: BFB	91.1	80-120	%Rec	1	5/5/2016 11:12:27 AM	25141		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.024	mg/Kg	1	5/5/2016 11:12:27 AM	25141		
Toluene	ND	0.048	mg/Kg	1	5/5/2016 11:12:27 AM	25141		
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 11:12:27 AM	25141		
Xylenes, Total	ND	0.096	mg/Kg	1	5/5/2016 11:12:27 AM	25141		
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	5/5/2016 11:12:27 AM	25141		

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 14
- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-3

Project: Enterprise Edgar Federal 7

Collection Date: 5/3/2016 3:57:00 PM

Lab ID: 1605109-003

Matrix: SOIL

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/4/2016 8:26:06 PM	25140
Surr: DNOP	99.8	70-130	%Rec	1	5/4/2016 8:26:06 PM	25140
EPA METHOD 8015D: GASOLINE RAI		Analyst	NSB			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 11:37:10 AM	25141
Surr: BFB	90.9	80-120	%Rec	1	5/5/2016 11:37:10 AM	25141
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2016 11:37:10 AM	25141
Toluene	ND	0.048	mg/Kg	1	5/5/2016 11:37:10 AM	25141
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 11:37:10 AM	25141
Xylenes, Total	ND	0.096	mg/Kg	1	5/5/2016 11:37:10 AM	25141
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	5/5/2016 11:37:10 AM	25141

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

- 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 Page 3 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605109-004

Client Sample ID: SC-4

Collection Date: 5/3/2016 4:04:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	290	9.7	mg/Kg	1	5/4/2016 8:47:48 PM	25140
Surr: DNOP	101	70-130	%Rec	1	5/4/2016 8:47:48 PM	25140
PA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	890	240	mg/Kg	50	5/5/2016 12:01:55 PM	25141
Surr: BFB	115	80-120	%Rec	50	5/5/2016 12:01:55 PM	25141
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	3.2	1.2	mg/Kg	50	5/5/2016 12:01:55 PM	25141
Toluene	43	2.4	mg/Kg	50	5/5/2016 12:01:55 PM	25141
Ethylbenzene	7.1	2.4	mg/Kg	50	5/5/2016 12:01:55 PM	25141
Xylenes, Total	67	4.8	mg/Kg	50	5/5/2016 12:01:55 PM	25141
Surr: 4-Bromofluorobenzene	119	80-120	%Rec	50	5/5/2016 12:01:55 PM	25141

Matrix: SOIL

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

- 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 Page 4 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project:

1605109-005

Lab ID:

Enterprise Edgar Federal 7

Matrix: SOIL

Client Sample ID: SC-5

Collection Date: 5/3/2016 4:14:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			, _	Analyst	КЈН
Diesel Range Organics (DRO)	130	9.5		mg/Kg	1	5/4/2016 9:09:27 PM	25140
Surr: DNOP	96.9	70-130		%Rec	1	5/4/2016 9:09:27 PM	25140
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	300	49		mg/Kg	10	5/5/2016 12:51:13 PM	25141
Surr: BFB	167	80-120	S	%Rec	10	5/5/2016 12:51:13 PM	25141
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.88	0.24		mg/Kg	10	5/5/2016 12:51:13 PM	25141
Toluene	14	0.49		mg/Kg	10	5/5/2016 12:51:13 PM	25141
Ethylbenzene	2.9	0.49		mg/Kg	10	5/5/2016 12:51:13 PM	25141
Xylenes, Total	29	0.97		mg/Kg	10	5/5/2016 12:51:13 PM	25141
Surr: 4-Bromofluorobenzene	129	80-120	S	%Rec	10	5/5/2016 12:51:13 PM	25141

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 14 J
- Sample pH Not In Range P
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Enterprise Edgar Federal 7

-

Client Sample ID: SC-6

Collection Date: 5/3/2016 4:12:00 PM

Lab ID: 1605109-006

Project:

Matrix: SOIL

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			: KJH	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/4/2016 9:31:13 PM	25140
Surr: DNOP	81.8	70-130	%Rec	1	5/4/2016 9:31:13 PM	25140
EPA METHOD 8015D: GASOLINE RA		Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/5/2016 1:40:15 PM	25141
Surr: BFB	95.3	80-120	%Rec	1	5/5/2016 1:40:15 PM	25141
EPA METHOD 8021B: VOLATILES				Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	5/5/2016 1:40:15 PM	25141
Toluene	ND	0.047	mg/Kg	1	5/5/2016 1:40:15 PM	25141
Ethylbenzene	ND	0.047	mg/Kg	1	5/5/2016 1:40:15 PM	25141
Xylenes, Total	ND	0.094	mg/Kg	1	5/5/2016 1:40:15 PM	25141
Surr: 4-Bromofluorobenzene	116	80-120	%Rec	1	5/5/2016 1:40:15 PM	25141

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

- 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 Page 6 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605109-007

Client Sample ID: SC-7

Collection Date: 5/3/2016 4:23:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/4/2016 9:52:47 PM	25140
Surr: DNOP	79.5	70-130	%Rec	1	5/4/2016 9:52:47 PM	25140
PA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 3:43:01 PM	25141
Surr: BFB	90.4	80-120	%Rec	1	5/5/2016 3:43:01 PM	25141
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2016 3:43:01 PM	25141
Toluene	ND	0.048	mg/Kg	1	5/5/2016 3:43:01 PM	25141
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 3:43:01 PM	25141
Xylenes, Total	ND	0.097	mg/Kg	1	5/5/2016 3:43:01 PM	25141
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	5/5/2016 3:43:01 PM	25141

Matrix: SOIL

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

- 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 Page 7 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

129,6×1

194 - 26

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/9/2016

Matrix: SOIL

CLIENT: Rule Engineering LLC

Client Sample ID: SC-8

Project: Enterprise Edgar Federal 7

Collection Date: 5/3/2016 4:24:00 PM

Lab ID: 1605109-008

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3	C	×	Analys	: KJH	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/4/2016 10:14:35 PM	25140	
Surr: DNOP	81.7	70-130	%Rec	1	5/4/2016 10:14:35 PM	25140	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/5/2016 4:07:27 PM	25141	
Surr: BFB	94.4	80-120	%Rec	1	5/5/2016 4:07:27 PM	25141	
EPA METHOD 8021B: VOLATILES				Analyst: NSB			
Benzene	ND	0.025	mg/Kg	1	5/5/2016 4:07:27 PM	25141	
Toluene	ND	0.050	mg/Kg	1	5/5/2016 4:07:27 PM	25141	
Ethylbenzene	ND	0.050	mg/Kg	1	5/5/2016 4:07:27 PM	25141	
Xylenes, Total	ND	0.099	mg/Kg	1	5/5/2016 4:07:27 PM	25141	
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	5/5/2016 4:07:27 PM	25141	

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

- Value exceeds Maximum Contaminant Level.
- 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 Page 8 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

1605109-009

Lab ID:

Client Sample ID: SC-9

Collection Date: 5/3/2016 4:16:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF		Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analyst	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/4/2016 10:36:13 PM	25140
Surr: DNOP	84.8	70-130	%Rec	1	5/4/2016 10:36:13 PM	25140
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/5/2016 4:31:52 PM	25141
Surr: BFB	109	80-120	%Rec	1	5/5/2016 4:31:52 PM	25141
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	5/5/2016 4:31:52 PM	25141
Toluene	0.10	0.049	mg/Kg	1	5/5/2016 4:31:52 PM	25141
Ethylbenzene	ND	0.049	mg/Kg	1	5/5/2016 4:31:52 PM	25141
Xylenes, Total	0.24	0.098	mg/Kg	1	5/5/2016 4:31:52 PM	25141
Surr: 4-Bromofluorobenzene	117	80-120	%Rec	1	5/5/2016 4:31:52 PM	25141

Matrix: SOIL

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

- 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 Page 9 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605109-010

Client Sample ID: SC-10

Collection Date: 5/3/2016 4:32:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst	КЈН
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/4/2016 10:57:55 PM	25140
Surr: DNOP	84.8	70-130	%Rec	1	5/4/2016 10:57:55 PM	25140
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/5/2016 4:56:20 PM	25141
Surr: BFB	91.0	80-120	%Rec	1	5/5/2016 4:56:20 PM	25141
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	5/5/2016 4:56:20 PM	25141
Toluene	ND	0.049	mg/Kg	1	5/5/2016 4:56:20 PM	25141
Ethylbenzene	ND	0.049	mg/Kg	1	5/5/2016 4:56:20 PM	25141
Xylenes, Total	ND	0.099	mg/Kg	1	5/5/2016 4:56:20 PM	25141
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	5/5/2016 4:56:20 PM	25141

Matrix: SOIL

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

- 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 Page 10 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605109

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605109-011

Client Sample ID: SC-11

Collection Date: 5/3/2016 4:35:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	1			Analyst	КЈН
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/4/2016 11:19:37 PM	25140
Surr: DNOP	83.4	70-130	%Rec	1	5/4/2016 11:19:37 PM	25140
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 5:20:54 PM	25141
Surr: BFB	88.6	80-120	%Rec	1	5/5/2016 5:20:54 PM	25141
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2016 5:20:54 PM	25141
Toluene	ND	0.048	mg/Kg	1	5/5/2016 5:20:54 PM	25141
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 5:20:54 PM	25141
Xylenes, Total	ND	0.096	mg/Kg	1	5/5/2016 5:20:54 PM	25141
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	5/5/2016 5:20:54 PM	25141

Matrix: SOIL

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

- * 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 Page 11 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605109

09-May-16

Qual

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Sample ID LCS-25140

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID:

LCSS

Batch ID: 25140

RunNo: 33966

Units: mg/Kg

Prep Date: 5/4/2016

Analysis Date: 5/4/2016

SeqNo: 1047132

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Analyte 65.8 136 Diesel Range Organics (DRO) 46 50.00 93.0 10 70 4.7 5.000 94.2 130

Surr: DNOP

Sample ID MB-25140

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID:

PBS

Batch ID: 25140

Units: mg/Kg

Analyte

Prep Date: 5/4/2016

Analysis Date: 5/4/2016

SeqNo: 1047133

HighLimit

%RPD **RPDLimit** Qual

Diesel Range Organics (DRO) Surr: DNOP

ND 10 9.8

Result

10.00

SPK value SPK Ref Val

97.9

%REC

70

130

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 12 of 14

- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605109

09-May-16

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Sample ID MB-25141

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 25141

RunNo: 33991

SPK value SPK Ref Val %REC

HighLimit

Prep Date: 5/4/2016 Analyte

Surr: BFB

Analysis Date: 5/5/2016 PQL

SeqNo: 1047349

Units: mg/Kg

120

Qual

Gasoline Range Organics (GRO)

ND 880

1000

88.4

LowLimit

LowLimit

80

RPDLimit

Sample ID LCS-25141

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 25141

5.0

RunNo: 33991

Prep Date: 5/4/2016

Analysis Date: 5/4/2016

SeqNo: 1047350 %REC

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result PQL

SPK value SPK Ref Val 25.00 5.0

97.7

80

HighLimit 120

%RPD

%RPD **RPDLimit** Qual

Surr: BFB

24 1000 1000 102 80 120

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- Value above quantitation range
- Analyte detected below quantitation limits J
- Page 13 of 14

- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605109

09-May-16

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Sample ID MB-25141

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID:

PBS

Batch ID: 25141

RunNo: 33991

Units: mg/Kg

Prep Date: 5/4/2016

Analysis Date: 5/5/2016

1.1

SeqNo: 1047378

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit %RPD Qual

Analyte Result **PQL** Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene

SampType: LCS

1.000

TestCode: EPA Method 8021B: Volatiles

120

Sample ID LCS-25141

Client ID: LCSS

Batch ID: 25141

RunNo: 33991

107

Prep Date: 5/4/2016	Analysis [Date: 5/	5/2016	5	SeqNo: 1	047379	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	75.3	123			: "E.
Toluene	1.0	0.050	1.000	0	102	80	124			
Ethylbenzene	1.0	0.050	1.000	0	104	82.8	121			
Xylenes, Total	3.1	0.10	3.000	0	105	83.9	122			
Surr: 4-Bromofluorobenzene	12		1 000		110	80	120			

Qualifiers:

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

Page 14 of 14



Hall Environmental Analysis Laboratory 490! Hawkins NE Albuaueraue, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.halienvironmental.com

Sample Log-In Check List

RULE ENGINEERING LL Work Order Number: 1605109 RoptNo: 1 Received by/date: Logged By: Lindsay Mangin 5/4/2016 7:55:00 AM Completed By: **Lindsay Mangin** 5/4/2016 8:43:55 AM 05/04/16 Reviewed By: IO Chain of Custody 1 Custody seals intact on sample bottles? Yes | No 🗌 Not Present No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA . 4. Was an attempt made to cool the samples? Yes V NA . 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V Yes V No 🗌 Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes V 8. Are samples (except VOA and ONG) properly preserved? Yes 🗆 No V NA 🗌 9. Was preservative added to bottles? Yes No 🗌 No VOA Vials 10. VOA vials have zero headspace? Yes 🗌 No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes V No 🗌 13. Are matrices correctly identified on Chain of Custody? No 🗌 14. Is it clear what analyses were requested? Yes V No 🗌 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes | NA V No 16. Was client notified of all discrepancies with this order? Person Notified: Date eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition | Seal Intact | Seal No | Seal Date

ANALYSIS Www.hallenvironm ailing Address: 501 Airport Dr. Soik 205 Project Name: ANALYSIS www.hallenvironm 4901 Hawkins NE - Albuque	erque, NM 87109 505-345-4107
Analysis	erque, NM 87109 505-345-4107 Request
Tel. 505-345-3975 Fax 5 Tel. 505-345-345-3975 Fax 5 Tel. 505-345-345-3975 Fax 5 Tel. 505-345-345-345-345-345 Tel. 505-345-345-345-345 Tel. 505-345-345-345-345 Tel. 505-345-345-345-345 Tel. 505-345-345-345 Tel. 505-345-345-345 Tel. 505-345-345 Tel. 505-34	505-345-4107 Request \$8 28 28
Tel. 505-345-3975 Fax 5 Tel. 505-345-3975 Tel. 505-345-3975 Tel. 505-345-3975 Tel. 505-345-3975 Tel. 505-345-3975 Tel. 505-345-3975 Tel. 505-345-345-3975 Tel. 505-345-345-345-345-345-345 Tel. 505-345-345-345-345 Tel. 505-345-345-345 Tel. 505-345-345-345 Tel. 505-345-345 Tel. 505-345-345 Tel. 505-345-345 Tel. 505-345 Tel. 505-345 Tel. 505-345 Tel. 505-3	Request S DCB's
Analysis Find India Fax#: hwxx/s@rulerngine: ring.com NOC Package: Standard Level 4 (Full Validation) Heather Woods Sampler: H. Woods / J. Valdez On Ice: A Yes D No EDD (Type) Sample Request ID Container Type and # Preservative Type and # Preservative Type and # Preservative Type and # Preservative Type HEAL No. Analysis Find Marix Sample Request ID Container Type and # Preservative Type HEAL No. Analysis Find Marix Sample Request ID Container Type and # Preservative Type HEAL No. Analysis Find Marix Sample Request ID Container Type HEAL No. Analysis Find Marix Sample Request ID Container Type HEAL No. Analysis Find Marix Sample Request ID Container Type HEAL No. Analysis Find Marix Sample Request ID Container Type HEAL No. Analysis Find Marix Sample Request ID Container Type HEAL No. Analysis Find Container Type Container Type HEAL No. Analysis Find Container Type Container Type Container Type HEAL No. Analysis Find Container Type Cont	82 PCB's
Nel Project Manager: No Nel	8
Standard	8
3/16/15:45 Soil SC-1 (1)402 Glass Cold -001 X X 3/16/15:50 Soil SC-2 -007 X X 3/16/15:57 Soil SC-3 -003 X X 3/16/16:04 Soil SC-4 -004 X X	8
3/16/15:45 Soil SC-1 (1)402 Glass Cold -001 X X 3/16/15:50 Soil SC-2 -007 X X 3/16/15:57 Soil SC-3 -003 X X 3/16/16:04 Soil SC-4 -004 X X	OA) mi-VOA) es (Y or N)
3/16/15:45 Soil SC-1 (1)402 Glass Cold -001 X X 3/16/15:50 Soil SC-2 -007 X X 3/16/15:57 Soil SC-3 -003 X X 3/16/16:04 Soil SC-4 -004 X X	OA) mi-VOA) es (Y or
3/16/15:45 Soil SC-1 (1)402 Glass Cold -001 X X 3/16/15:50 Soil SC-2 -007 X X 3/16/15:57 Soil SC-3 -003 X X 3/16/16:04 Soil SC-4 -004 X X	mi-V mi-V es ()
3/16/15:45 Soil SC-1 (1)402 Glass Cold -001 X X 3/16/15:50 Soil SC-2 -007 X X 3/16/15:57 Soil SC-3 -003 X X 3/16/16:04 Soil SC-4 -004 X X	#10151 1 1
3/16/15:45 Soil SC-1 (1)402 Glass Cold -001 X X 3/16/15:50 Soil SC-2 -007 X X 3/16/15:57 Soil SC-3 -003 X X 3/16/16:04 Soil SC-4 -004 X X	8081 Pes 8260B (V 8270 (Se
3/16/1550 Soil Se-2 3/16/1557 Soil Sc-3 3/16/1604 Soil SC-4 -004 X X	8 8 8
3/16 1557 50:1 SC-3 -003 X X X 3/16 1604 50:1 SC-4 -004 X X	
3/16/1604 50:1 SC-4 -004 X X	
3/16 11014 Soil SC-5 X X X	
3/16/16/12 50/1 SC-6 -006 X X	
3/16/1623 Soil SC-7 -007 X X	
13/16/1624 Soil SC-8 -008 X X	
3/14/16/16 Soil SC-9 + + -09 X X	
3/16/1632 50:1 SC-10 -010 X X	
13/110/1635 Soil SC-11 1 -011 X X	
NIS" HW	
te: Time: Relinquished by: Received by: Date Time Remarks:	
3/12 1888 Heather M. Woods Mustle Water 5/3/14 1858 Direct Bill to Enterprise 18: Time: Relinquished by: Received by: Received by: 1 Date Time Non-AFE: N 25321	ł.
ite: Time: Relinquished by: Received by: Date Time Non-AFE: N25321 3/14 1940 Mustine Water C5/2016 0755 Attn: Tom Long	

and the first term from the first term from the first term to the first term to the first term to the



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

May 09, 2016

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055

FAX

RE: Enterprise Edgar Federal 7

OrderNo.: 1605108

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/4/2016 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1605108

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605108-001

Client Sample ID: SP-1

Collection Date: 5/3/2016 5:02:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/4/2016 2:38:43 PM	25140
Surr: DNOP	99.3	70-130	%Rec	1	5/4/2016 2:38:43 PM	25140
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 9:34:07 AM	25141
Surr: BFB	95.3	80-120	%Rec	1	5/5/2016 9:34:07 AM	25141
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2016 9:34:07 AM	25141
Toluene	ND	0.048	mg/Kg	1	5/5/2016 9:34:07 AM	25141
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 9:34:07 AM	25141
Xylenes, Total	ND	0.096	mg/Kg	1	5/5/2016 9:34:07 AM	25141
Surr: 4-Bromofluorobenzene	117	80-120	%Rec	1	5/5/2016 9:34:07 AM	25141

Matrix: SOIL

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

- 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 Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1605108

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/9/2016

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605108-002 Client Sample ID: SP-2

Collection Date: 5/3/2016 4:55:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3		2	Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/4/2016 3:00:36 PM	25140
Surr: DNOP	105	70-130	%Rec	1	5/4/2016 3:00:36 PM	25140
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/5/2016 9:58:39 AM	25141
Surr: BFB	92.5	80-120	%Rec	1	5/5/2016 9:58:39 AM	25141
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	5/5/2016 9:58:39 AM	25141
Toluene	ND	0.047	mg/Kg	1	5/5/2016 9:58:39 AM	25141
Ethylbenzene	ND	0.047	mg/Kg	1	5/5/2016 9:58:39 AM	25141
Xylenes, Total	ND	0.094	mg/Kg	1	5/5/2016 9:58:39 AM	25141
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	5/5/2016 9:58:39 AM	25141

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 7 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1605108

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Enterprise Edgar Federal 7 Project:

Lab ID: 1605108-003 Client Sample ID: SP-3

Collection Date: 5/3/2016 1:45:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	1			Analys	t: KJH
Diesel Range Organics (DRO)	12	10	mg/Kg	1	5/4/2016 3:22:23 PM	25140
Surr: DNOP	102	70-130	%Rec	1	5/4/2016 3:22:23 PM	25140
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 2:27:38 AM	25141
Surr: BFB	89.4	80-120	%Rec	1	5/5/2016 2:27:38 AM	25141
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2016 2:27:38 AM	25141
Toluene	ND	0.048	mg/Kg	1	5/5/2016 2:27:38 AM	25141
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 2:27:38 AM	25141
Xylenes, Total	ND	0.096	mg/Kg	1	5/5/2016 2:27:38 AM	25141
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	5/5/2016 2:27:38 AM	25141

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 7 J
- Sample pH Not In Range P
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1605108

Date Reported: 5/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: Enterprise Edgar Federal 7

Lab ID: 1605108-004 Client Sample ID: SP-4

Collection Date: 5/3/2016 4:50:00 PM

Received Date: 5/4/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	КЈН
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/4/2016 3:44:12 PM	25140
Surr: DNOP	102	70-130	%Rec	1	5/4/2016 3:44:12 PM	25140
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/5/2016 10:23:20 AM	25141
Surr: BFB	94.9	80-120	%Rec	1	5/5/2016 10:23:20 AM	25141
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2016 10:23:20 AM	25141
Toluene	ND	0.048	mg/Kg	1	5/5/2016 10:23:20 AM	25141
Ethylbenzene	ND	0.048	mg/Kg	1	5/5/2016 10:23:20 AM	25141
Xylenes, Total	ND	0.096	mg/Kg	1	5/5/2016 10:23:20 AM	25141
Surr: 4-Bromofluorobenzene	118	80-120	%Rec	1	5/5/2016 10:23:20 AM	25141

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 7 J

- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605108

09-May-16

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Sample ID LCS-25140 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 25140 RunNo: 33966 Prep Date: 5/4/2016 Analysis Date: 5/4/2016 SeqNo: 1047132 Units: mg/Kg SPK value SPK Ref Val %REC **HighLimit** %RPD **RPDLimit** Qual Analyte PQL LowLimit Diesel Range Organics (DRO) 10 50.00 65.8 46 93.0 136 Sur: DNOP 4.7 5.000 94.2 130

Sample ID MB-25140 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 25140 RunNo: 33966 Prep Date: 5/4/2016 Analysis Date: 5/4/2016 SeqNo: 1047133 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte ND 10 Diesel Range Organics (DRO)

Surr: DNOP 9.8

70

130

10.00

97.9

Qualifiers:

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

Page 5 of 7

- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605108

09-May-16

Client:

Rule Engineering LLC

Project:

Analyte

Enterprise Edgar Federal 7

Sample ID MB-25141

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

80

80

59.3

80

Client ID:

Batch ID: 25141

RunNo: 33991

Prep Date: 5/4/2016

Analysis Date: 5/5/2016

SeqNo: 1047349

Units: mg/Kg

RPDLimit

Gasoline Range Organics (GRO)

ND

SPK value SPK Ref Val %REC LowLimit **HighLimit**

Qual

Surr: BFB

880

Result

1000

88.4

120

Sample ID LCS-25141

SampType: LCS

PQL

5.0

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Client ID: LCSS Prep Date: 5/4/2016 Batch ID: 25141

RunNo: 33991

120

120

Gasoline Range Organics (GRO)

Analysis Date: 5/4/2016

SeqNo: 1047350

Units: mg/Kg

Analyte

Result PQL SPK value SPK Ref Val

%REC LowLimit

Qual

24 5.0 25.00 1000 1000

97.7 102 HighLimit

%RPD **RPDLimit**

Surr: BFB

Sample ID 1605108-001AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: SP-1

Result

30

Batch ID: 25141

RunNo: 33991

123

Units: mg/Kg

Analyte

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 PQL

4.9

SeqNo: 1047351 SPK value SPK Ref Val

%REC LowLimit HighLimit %RPD

RPDLimit Qual

Gasoline Range Organics (GRO)

Surr: BFB

990

970.9

24.27

102

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Sample ID 1605108-001AMSD SP-1

SampType: MSD Batch ID: 25141

RunNo: 33991

143

120

Prep Date: 5/4/2016

Analysis Date: 5/5/2016

SeqNo: 1047352

Units: mg/Kg

%RPD **RPDLimit** Qual

0

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result PQL 32 1000

SPK value SPK Ref Val 4.9 24.61

984.3

%REC 132 106

LowLimit 59.3 80 HighLimit 143 120

0

8.78 20

H

R

- Qualifiers: Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- ND Not Detected at the Reporting Limit RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- В Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified
- Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605108

09-May-16

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Sample ID MB-25141	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: 25	141	F	RunNo: 3	3991				
Prep Date: 5/4/2016	Analysis D	ate: 5/	5/2016	8	SeqNo: 1	047378	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID LCS-25141	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	n ID: 25	141	F	RunNo: 3	3991				
Prep Date: 5/4/2016	Analysis D	ate: 5/	5/2016	8	SeqNo: 1	047379	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	75.3	123			
Toluene	1.0	0.050	1.000	0	102	80	124			
Ethylbenzene	1.0	0.050	1.000	0	104	82.8	121			
Xylenes, Total	3.1	0.10	3.000	0	105	83.9	122			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	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
- W Sample container temperature is out of limit as specified

Page 7 of 7



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:	RULE ENGINEERING L	L Work Order Number:	1605108			RoptNo: 1	
Received by/da	ite:	05/04/16					
Logged By:	Lindsay Mangin	5/4/2016 7:55:00 AM		04	Mga		
Completed By:	Lindsay Mangin	5/4/2016 8:31:37 AM		74	1100		
Reviewed By:	70	05/04/16			0		
Chain of Cu		17					10 Ve 10 10 10 10 10 10 10 10 10 10 10 10 10
1. Custody se	als intact on sample bottles	?	Yes 🗆	No		Not Present	
2. Is Chain of	Custody complete?		Yes 🗸	No		Not Present	
3. How was th	ne sample delivered?		Courier				
Log In						-7	
4. Was an att	tempt made to cool the sam	ples?	Yes 🖳	No.		NA 🗆	
5. Were all sa	imples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No		NA 🗆	
6. Sample(s)	in proper container(s)?		Yes 🛂	No			
7. Sufficient s	ample volume for indicated	test(s)?	Yes V	No.			
8. Are sample	es (except VOA and ONG) p	roperly preserved?	Yes V	No			
9. Was presen	rvative added to bottles?		Yes 🗆	No.	V	NA 🗆	
10. VOA vials	have zero headspace?		Yes 🗆] No		No VOA Vials	
11. Were any	sample containers received	broken?	Yes L	No	V	# of noncount	
			_			# of preserved bottles checked	
THE RESERVE AND ADDRESS OF THE PARTY OF THE	rwork match bottle labels? epancies on chain of custor	tu)	Yes 🗹	No	П	for pH: (<2 or >12	unless noted
	es correctly identified on Ch	**	Yes V	No		Adjusted?	
	hat analyses were requeste	•	Yes 🗹				
15. Were all ho	olding times able to be met? y customer for authorization		Yes 🗹	No.		Checked by:	
		•					
Buddeline - State	dling (if applicable)		_	1			
16. Was client	notified of all discrepancies	with this order?	Yes	No	U	NA 🔽	
Perso	on Notified:	Date					
-	/hom:	Via:	eMail	Phone	Fax	In Person	
	ording:					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Clien	t Instructions:					7	
17. Additional	remarks:						
18. Cooler Int	formation						1
Cooler I	No Temp C Condition	Seal Intact Seal No	Seal Date	Signed I	D., 1		

ailing Address:	501	ailing Address: 501 Airport Dr. Site 205	Dribert #	\			49	4901 Hawkins NE	awk	ins N	m,	<u>A</u>	uqu	erqu	,e Z	Albuquerque, NM 87109	109			
one # (505) 716-2767	2)716	2767	Enterprise		Edgar Federal #7			Tel. 505-345-39/5	Š	9	A 6/6	Analysis	-ax /sis	Request	ues	ysis Request				
nail or Fax#: h	moods	nail or Fax#: hwoods@ rukkensing.cing.comProject Manager.	Project Mana	ger:		1)	nly)	39)					O ₄)	5						
VQC Package:		c				3021	is o	A			S)	i i i c	₄ ,S	CB's						
Standard		☐ Level 4 (Full Validation)	Heather Woods	Woods		s (8	(Ga	RO /			SIMS		,PO	2 PC						
creditation	!		Sampler: H. Woods /	idads /J.	J. Valdez	W B	ГРН	/ DI	.1)	.1)	270 \$		NO ₂	8082						
NELAP	□ Other	r	On Ice:	ZYes [□ No	+ 4	+ T	RO	18.	04.	82	3	03,1	s / 8		A)				
EDD (Type)_			Sample Temperature:	perature: 1,4		DE.	BE	(GI	od 4	od 5	0 or	tals	I,N	ide	۹)	-VC				
)ate Time	Matrix	Sample Request ID	Container	Preservative	HEAL No.	X + Æ	X + MT	8015B	(Metho	(Metho	's (831	A 8 Me	ns (F,C	Pestic	B (VO	(Semi				
) po and "	, ypc	80100	вте	ВТЕ	TPH	TPH	EDE	PAH	RCF	Anic	808	826	827				
3/16 1702	Soil	58-1	ددهای ۱۹۰۶ (۱	Cold	100-	×		X												
3/16 1655	Soil	SP-2	ł	,	-002	×		X												
3/16 1345	503	SP-3			-003	×		X												
3/16/16/50	50:1	SP-4	7	-	100-	×		×												
_																				
	/																			
		450																		
		17	/																	
				/																
				/	/															
te: Time:	Relinquished by:	ed by:	Received by:		Date Time	Remarks:	nark	9:			-									
1858	Her	the M. Wook	must	Wester	5/3/m 1858	70	MEC.	Direct Bill to Entronu	4	50	Entropius	3 2	- 5							
te: Time:	Relinquished by:	ed by:	Received by:		- Date Time		1	<u>ي</u> ک	Tom Long	5 6	3 0	ĭ								
OHA! "	1100	Matine Chisters	*	05	0765						0		-							1
If necessary, k	samples sub	If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other ac	credited laboratories.	This serves as notice of this	possit	bility.	Any su	b-con	racte	data	will be	clear	y nota	ited or	the a	nalytic	al repo	Ä	

ient Rule Engineering, LC

☐ Standard
Project Name:

M Rush Kesie

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

Turn-Around Time:

Chain-of-Custody Record



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

May 18, 2016

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055

FAX

RE: Enterprise Edgar Federal 7

OrderNo.: 1605392

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/10/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1605392

Date Reported: 5/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Enterprise Edgar Federal 7

Lab ID: 1605392-001

Project:

Client Sample ID: SC-12

Collection Date: 5/9/2016 10:55:00 AM

Received Date: 5/10/2016 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/16/2016 3:50:58 PM	25234
Surr: DNOP	89.7	70-130	%Rec	1	5/16/2016 3:50:58 PM	25234
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2016 1:53:26 PM	25244
Surr: BFB	107	80-120	%Rec	1	5/11/2016 1:53:26 PM	25244
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2016 1:53:26 PM	25244
Toluene	ND	0.048	mg/Kg	1	5/11/2016 1:53:26 PM	25244
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2016 1:53:26 PM	25244
Xylenes, Total	ND	0.095	mg/Kg	1	5/11/2016 1:53:26 PM	25244
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	5/11/2016 1:53:26 PM	25244

Matrix: SOIL

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

- 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 Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605392

18-May-16

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Result

4.2

Sample ID LCS-25300

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID:

LCSS

Batch ID: 25300

RunNo: 34242

Prep Date: 5/13/2016

Sample ID MB-25234

SeqNo: 1055900

Units: %Rec

130

Analyte Surr: DNOP

Analysis Date: 5/16/2016 PQL

HighLimit

LowLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS**

SampType: MBLK Batch ID: 25234

PQL

10

RunNo: 34242

85.0

%RPD

%RPD

Prep Date: 5/11/2016

Units: mg/Kg

130

Page 2 of 4

Analyte

Analysis Date: 5/16/2016

SeqNo: 1056603 SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC

LowLimit **HighLimit**

RPDLimit

RPDLimit

Qual

Qual

Diesel Range Organics (DRO) Surr: DNOP

ND 9.1

10.00

5.000

90.9

Sample ID LCS-25234

4.2

Result

SampType: LCS

RunNo: 34242

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS

Prep Date: 5/11/2016

Batch ID: 25234 Analysis Date: 5/16/2016

SegNo: 1056604

Units: mg/Kg

LowLimit HighLimit

%RPD **RPDLimit** Qual

Diesel Range Organics (DRO) Surr: DNOP

Result PQL SPK value SPK Ref Val 38 10

50.00 5.000

76.7 83.8

%REC

65.8 70

70

136 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

B

- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605392

18-May-16

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Sample ID MB-25244

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 25244

RunNo: 34138

Prep Date: 5/10/2016

Analysis Date: 5/11/2016

80

SeqNo: 1053057

Units: mg/Kg

Surr: BFB

SPK value SPK Ref Val %REC PQL 5.0

104

120

Gasoline Range Organics (GRO)

ND 1000

1000

LowLimit

HighLimit

RPDLimit Qual

Sample ID LCS-25244

SampType: LCS

RunNo: 34138

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Client ID: LCSS Prep Date: 5/10/2016

Batch ID: 25244

Analyte Gasoline Range Organics (GRO) Result

Analysis Date: 5/11/2016

SeqNo: 1053058

Units: mg/Kg

HighLimit %RPD Qual

Surr: BFB

PQL SPK value SPK Ref Val

%REC

LowLimit

80

TestCode: EPA Method 8015D: Gasoline Range

RPDLimit

1100

1000

25.00

1000

110

120

Analyte

Surr: BFB

Sample ID MB-25265

Client ID: PBS

SampType: MBLK

Batch ID: 25265

SPK value SPK Ref Val %REC LowLimit

RunNo: 34190 SegNo: 1054189

Units: %Rec

HighLimit

%RPD

RPDLimit Qual

Prep Date: 5/11/2016

Client ID: LCSS

Prep Date: 5/11/2016

Sample ID LCS-25265

SampType: LCS

Analysis Date: 5/12/2016

PQL

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 34190

Batch ID: 25265

1100

Result

1000

Analysis Date: 5/12/2016

SeqNo: 1054190

Units: %Rec

Qual

Page 3 of 4

Analyte Surr: BFB Result

PQL

SPK value SPK Ref Val %REC LowLimit

1000

111

HighLimit 120 %RPD **RPDLimit**

Qualifiers:

S

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H

% Recovery outside of range due to dilution or matrix

- Not Detected at the Reporting Limit RPD outside accepted recovery limits R
- B Analyte detected in the associated Method Blank
- E
- Reporting Detection Limit
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605392 18-May-16

Client:

Rule Engineering LLC

Project:

Enterprise Edgar Federal 7

Sample ID MB-25244	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	Batch ID: 25244 RunNo: 34138											
Prep Date: 5/10/2016	Analysis D	ate: 5/	11/2016	S	eqNo: 1	053072	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120						

Sample ID LCS-25244	244 SampType: LCS TestCode: EPA					PA Method				
Client ID: LCSS	Batch	n ID: 25	244	F	RunNo: 3	4138				
Prep Date: 5/10/2016	Analysis Date: 5/11/2016			S	SeqNo: 1	053073	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	75.3	123			
Toluene	0.96	0.050	1.000	0	95.6	80	124			
Ethylbenzene	0.98	0.050	1.000	0	97.6	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	97.4	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID MB-25265	SampTy	/pe: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles				
Client ID: PBS	Batch ID: 25265			F	RunNo: 3							
Prep Date: 5/11/2016	Analysis Date: 5/12/2016			8	054205	Units: %Re	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120	100	And Selection	-1 1/2 N		

Sample ID LCS-25265	SampTy	pe: Lo	CS	Tes	tCode: E	PA Method	8021B: Volat	tiles		2014	63
Client ID: LCSS	Batch	ID: 25	5265	F	RunNo: 3	34190					
Prep Date: 5/11/2016	Analysis Da	ite: 5	3/12/2016		SeqNo: 1	1054206	Units: %Re	C			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	(F)
Surr: 4-Bromofluorobenzene	1.1		1 000		111	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

Page 4 of 4

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



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

Clie	ent Name:	RULE ENG	NEERING LL	Work 0	Order Numbe	er: 16053	92			RcptNo:	1
Rec	elved by/date:	A	05/10	116							
Logg	ged By:	Anne Thor	ne	5/10/201	6 7:55:00 At	М		am	1-		
Com	pleted By:	Anne Thor	ne	5/10/201	6			Am.	1		
Revi	iewed By:	1401	(5/m/	10			Cime ,	<i></i>		
Cha	in of Custo	ody /		101						3	
1. (Custody seals	intact on sa	ample bottles?			Yes		No		Not Present ✓	
2. 1	ls Chain of Cu	stody comp	lete?			Yes	V	No		Not Present	
3. 1	How was the s	ample deliv	rered?		*	Cour	er				
Log	ı in										
4.	Was an attern	pt made to	cool the samp	les?		Yes	V	No		NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C				Yes	V	No		NA 🗆			
6.	Sample(s) in p	oroper conta	ainer(s)?			Yes	V	No			
7. 8	7. Sufficient sample volume for indicated test(s)?				Yes	V	No		8		
8. /	8. Are samples (except VOA and ONG) properly preserved?				Yes	V	No				
9. 1	Was preservat	tive added to	o bottles?			Yes		No	✓	NA 🗆	
10.1	VOA vials have	e zero head	space?			Yes		No		No VOA Vials	
11.	Were any san	nple contain	ers received b	roken?		Yes		No	V	# of preserved	
										bottles checked	
	Does paperwo (Note discrepa)		Yes	V	No	_	for pH:	or >12 unless noted)
	Are matrices o					Yes	V	No		Adjusted?	
14.	ls it clear what	analyses w	ere requested	?		Yes	V	No			
	Were all holdin					Yes	V	No		Checked by:	
										*	ĝ.
Spe	cial Handli	ng (if app	olicable)								
16.1	Was client not	ified of all d	iscrepancies v	vith this order?		Yes		No		na 🗹	_
	Person I	Notified:		- gurt qu Mangris (1 . 1 . 1 . 1	Date			2 14 1 F 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	By Who	m:	auro consequer e	on to make the state of the	Via:	eMa	il [Phone	Fax	☐ In Person	
	Regardin	ng:	and the state of t	had the same a	1011500 1001	n.B. Collins II	11.40.14			e e c'anadahan a da da ma	
	Client In	structions:				110		v		į.	
17.	Additional ren	narks:									
18.	Cooler Inform		Lawrence	1	1 1 .			l a	1	i	
	Cooler No	Temp °C 2.8	Good	Seal Intact Yes	Seal No	Seal Da	te	Signed E	sy		
	Ľ	2.0	3004	1.00							

C	Chain-of-Custody Record			Turn-Around				н	ıΔ	LL	E	NV	/IF	20	NN	1E	NTA	٨L			
Client:	Rul.	Engine	ering, LLC					ANALYSIS LABORATORY													
		0	0,	Project Name:				www.hallenvironmental.com													
Mailing	Address	501 A	ironat Drive Suit 205	Enterprise Edgar Federal #7				4901 Hawkins NE - Albuquerque, NM 87109													
For	Mailing Address: 501 Airport Drive, Suik 205 Farmington, NM 87401			Project #:					Tel. 505-345-3975 Fax 505-345-4107												
Phone #: (505) 716-2787			1									naly	/sis	Req	uest						
email or Fax#: hunds @ rulenginering. Com			Project Mana	ger:		_	nly)	â					04)								
QA/QC Package:						802	as o	n€			3		,S(CB's						Н	
	© Standard □ Level 4 (Full Validation)			Heather	Woods		\$	9	8			SIN		2,PC	12 P			1			
Accreditation NELAP Other				Sampler: \mathcal{H} .	Woods /	J. Valdez	+ 188 (8021)	+ TPH (Gas only)	밁	£.	£.	270		S,	808						Î
□ EDD (Type)				Sample Tem	erature	D NO	<u></u>	±	8	141	150	or 8	als	Š	Jes /	_	δ				ŏ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MES	BTEX + MTBE	TPH 8015B (GRO / DRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
19/16	1055	Soil	SC-12	(1)4026 lass	Cold	701	X		X												
					,																П
		/																			П
																					П
			MC															-	+	+	Н
			ME HO							\dashv	_			_			Н		+	+	Н
							Н			\forall		П						\top	+	\top	Н
																			\perp	\perp	П
								_								,		_	\bot	_	Н
							Ш					Ш						_	+	+	Н
	-			Description		Date Tree														\perp	Ц
Date: Time: Relinquished by: 5/9/n 17/6 Heather M- Woods Date: Time: Relinquished by: 5/9/n 1740 Machine M. Woods			Received by: Date Time Authority Date Time Received by: Date Time Received by: Date Time 105/10/16				Remarks: Direct Bill to Enderprise Non-AFE: N25321 Attn: Tom Long														
If	necessary,	samples subr	nitted to Hall Environmental may be subc	ontracted to other ac	credited laboratori	les. This serves as notice of this	possit	ollity.	Any su	ıb-cont	tracte	d data	will be	e clear	ty nota	ated or	the ar	nalytical	report.		_