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** Department

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

Incident ID	
District RP	
Facility ID	
Application ID	



Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 151618	
Contact Name: Thomas Long	Contact Telephone: 505-599-2286	
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): NCS1829551947	
Contact mailing address: 614 Reilly Ave, Farmington, NM		
87401		

Location of Release Source

Latitude <u>36.50456</u> Longitude <u>-10</u>	8.91551 (NAD 83 in decimal degrees to 5 decimal places)
Site Name Trunk 2C Pipeline	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 8/9/2018 at 10:30 a.m.	Serial Number (if applicable): NM 0 015563

Unit Letter	Section	Township	Range	County	
G	8	26N	10W	San Juan	

Surface Owner: State Federal Tribal Private (Name: BLM

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls): 8-10 BBLs	Volume Recovered (bbls): None
🛛 Natural Gas	Volume Released (Mcf): 1.88 MCF	Volume Recovered (Mcf): None
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release Cause of Release: On August 9, 2018 an Enterprise technician discovered a release of natural gas on the Trunk 2C pipeline. The pipeline was isolated, depressurized, locked out and tagged out. Repairs are remediation were completed on August 17, 2018. The contaminant mass was removed by mechanical excavation. The final excavation dimensions measured approximately 18 feet long by 12 feet wide by 10 feet deep. Approximately 160 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.



Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jop E, Fields Title: Director, Field Environmental Date: 10 Signature:

email: jefields@eprod.com

Telephone: (713) 381-6684

OCD Only

cross Fields Received by:

Date: 1112018

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	Date: 111912018
Printed Name: Varossa Fields	Title: Environmental Specalist



CLOSURE REPORT

Property:

Trunk 2C Pipeline Release (2018) NE 1/4, S8 T26N R10W San Juan County, New Mexico

October 12, 2018 Apex Project No. 725040112497

NMOCD NOV 0 1 2018 District III

Prepared for:

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

Prepared by:

Ranee Deechilly

Ranee Deechilly Project Scientist

Kyle Summers, CPG Branch Manager / Senior Geologist

Apex TITAN, Inc., a subsidiary of Apex Companies, LLC 606 S Rio Grande, Unit A, Aztec, NM 87410 T 505.334.5200 F 505.334.5204 www.apexcos.com

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CLOSURE REPORT

Trunk 2C Pipeline Release (2018) NE 1/4, S8 T26N R10W San Juan County, New Mexico

Apex Project No. 725040112497

1.0 INTRODUCTION

1.1 Site Description & Background

The Trunk 2C Pipeline Release site, referred to hereinafter as the "Site", is located in the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¹/₄ of Section 8, Township 26 North, Range 10 West, in rural San Juan County, New Mexico (36.50456N, 107.91552W). The Site is located on land managed by the Bureau of Land Management (BLM). The Site is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities, including one (1) Enterprise natural gas pipeline which traverses the area from approximately northwest to southeast.

On August 9, 2018, a release of natural gas occurred on the Trunk 2C pipeline. On August 14, 2018, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release.

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

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria using the New Mexico EMNRD OCD's New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.

2.0 CLOSURE CRITERIA

In accordance with the New Mexico ENMRD OCD's NMAC 19.15.29 *Releases*, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the implementation of closure activities and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

 No water wells were identified within a half a mile of the Site on the OSE Water Rights Reporting System (WRSS) database. Two (2) cathodic protection wells (Huerfano Unit #70, #230 (Unit NW, Sec 8 T26 R10W) and Huerfano Unit #222 (Unit SE, Sec 8 T26 R10W)) were identified within half a mile from the Site with depths to water of 30 feet below grade surface (bgs) and 130 feet bgs.



- The Site is located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse. The Site is located adjacent to an ephemeral wash that is identified as a "blue line" on the United States Geological Survey (USGS) topographic map.
- The Site is located within 200 feet of a dry stock pond. The pond is located approximately 90 feet east (topographically upgradient) of the release.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution or church.
- No springs or private, domestic fresh water wells used by less than five (5) households from domestic or stock water purposes were identified within 500 feet of the Site.
- No fresh water wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

Based on the evaluation of the site characterization, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
	Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg
≤ 50 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On August 9, 2018, a release of natural gas was identified on the Trunk 2C pipeline. The pipeline was temporarily taken out of service pending repairs. On August 14, 2018, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was subsequently repaired and placed back into service. During the pipeline repair and corrective action activities, Foutz and Bursum Construction Co. Inc., provided heavy equipment and labor support, and Apex provided environmental support.

The final primary excavation measured approximately 18 feet long by 12 feet wide. The maximum depth of the excavation measured approximately ten (10) feet bgs. The excavated flow path measured approximately six (6) feet long by nine (9) feet wide, and three (3) feet bgs in depth.

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

A total of approximately 160 cubic yards of petroleum hydrocarbon affected soils and five (5) barrels (bbls) of hydro-excavation cuttings and water were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. The excavation was backfilled with imported fill and contoured to surrounding grade.

Figure 3 is a map with soil sample locations that depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

3.2 Soil Sampling Program

Apex field screened soil samples from the excavation utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dexsil PetroFLAG[®] hydrocarbon analyzer system to guide excavation extents.

On August 17, 2018, five (5) composite soil samples (S-1 through S-5) were collected from the sidewalls and the base of the final excavation for laboratory analysis. In addition, one (1) composite soil sample (FP-1) was collected from the flow path for laboratory analysis.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

3.3 Laboratory Analytical Methods

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021/8260, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

Laboratory results are summarized in **Table 1**, included in **Appendix D**. The executed chain-ofcustody 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 NMAC 19.15.29 *Releases.* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Soil Samples

Apex compared the BTEX, TPH, and chloride concentrations or laboratory practical quantitation limits (PQLs) associated with the composite soil samples (S-1 through S-5 and FP-1) to the New Mexico EMNRD OCD closure criteria.

- The laboratory analyses of the composite soil samples collected from soils remaining in place do not indicate benzene concentrations above the laboratory PQLs, which are below the New Mexico EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analyses of the composite soil samples collected from soils remaining in place do not indicate total BTEX concentrations above the laboratory PQLs, which are below the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analysis of composite soil sample FP-1 collected from soils remaining in place indicates a combined TPH GRO/DRO/MRO concentration of 77 mg/kg, which is below the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analyses of the remaining composite soil samples collected from soils remaining in place do not indicate combined TPH GRO/DRO/MRO concentrations above the laboratory PQLs, which are below the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analyses of the composite soil samples collected from soils remaining in place indicate chloride concentrations ranging from below the laboratory PQLs to 370 mg/kg (S-4), which are below the New Mexico OCD closure criteria of 600 mg/kg.

Laboratory analytical results are summarized in Table 1 in Appendix D.

5.0 RECLAMATION AND RE-VEGETATION

The excavation was backfilled with imported fill and contoured to the surrounding grade. The site will be re-seeded with a BLM Farmington Field Office approved seeding mixture at the beginning of the next favorable growing season.

6.0 FINDINGS AND RECOMMENDATIONS

The Trunk 2C Pipeline Release Site is located in the Enterprise pipeline ROW in the NE ¼ of Section 8, Township 26 North, Range 10 West, in rural San Juan County, New Mexico. The Site is located on land managed by the BLM. The Site is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities, including one (1) Enterprise natural gas pipeline which traverses the area from approximately northwest to southeast.

On August 9, 2018, a release of natural gas occurred on the Trunk 2C pipeline. On August 14, 2018, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release.



- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sand and silty clay.
- The final primary excavation measured approximately 18 feet long by 12 feet wide. The
 maximum depth of the excavation measured approximately 10 feet bgs. The excavated
 flow path measured approximately six (6) feet long by nine (9) feet wide, and three (3)
 feet bgs in depth.
- Prior to backfilling, five (5) composite soil samples were collected from the excavation along with one (1) flow path sample. Based on soil analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 160 cubic yards of petroleum hydrocarbon affected soils and five (5) bbls of hydro-excavation cuttings and water were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill and contoured to surrounding grade.

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

7.0 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



Q:\Projects\725040112497\Figure 1.mxd Modified 8/30/2018 by JSimpson NAD 1983 2011 StatePlane New Mexico West FIPS 3003 Ft US Coordinate System



Q:\Projects\725040112497\Figure 2.mxd Modified 8/30/2018 by JSimpson NAD 1983 2011 StatePlane New Mexico West FIPS 3003 Ft US Coordinate System





APPENDIX B

Executed C-138 Solid Waste Acceptance Form

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

97057-0939

Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	
2. Originating Site: Trunk 2C Pipeline	Invoice Information: PM: Aaron Lucero Non AFE: N37753 Pay Key: CM22355
3. Location of Material (Street Address, City, State or ULSTR): UL G Section 8 T26N R10W; 36.50456, -107.91551	August 2018
4. Source and Description of Waste:	•
Description: Hydrocarbon/Condensate impacted soil associated with the remediation of a Estimated Volume 50 (yd^3 bbls Known Volume (to be entered by the operator at the estimated Volume)	natural gas pipeline leak. end of the haul) 160/5 yd ^{3/} bbls
5. GENERATOR CERTIFICATION STATEMENT OF W	VASTE STATUS
I. Thomas Long , representative or authorized agent for Enterprise Products Oper Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US	ating do hereby Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification	on)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and produce exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <u>Monthly</u>	uction operations and are not mixed with non-
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed haza subpart D, as amended. The following documentation is attached to demonstrate the a the appropriate items)	I the minimum standards for waste hazardous by ardous waste as defined in 40 CFR, part 261, above-described waste is non-hazardous. (Check
□ MSDS Information □ RCRA Hazardous Waste Analysis ⊠ Process Knowledge	□ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STAT	EMENT FOR LANDFARMS
1, Thomas Long 8-14-18, representative for Enterprise Products Operating autho Generator Signature	rizes Envirotech <u>, Inc</u> to complete
the required testing/sign the Generator Waste Testing Certification.	
1, <u>Envirotech, Inc.</u> representative samples of the oil field waste have been subjected to the paint filter test and have been found to conform to the specific requirements applicable to landfarms pursuant of the representative samples are attached to demonstrate the above-described waste confo 19.15.36 NMAC.	do hereby certify that tested for chloride content and that the samples to Section 15 of 19.15.36 NMAC. The results rm to the requirements of Section 15 of
5. Transporter: TBD Foutz + Bursum, DeHerrerg	
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: Address of Facility: Hilltop, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm	NM 01-0011] Landfill 🔲 Other
Waste Acceptance Status:	ED (Must Be Maintained As Permanent Record)
PRINT NAME: Grag Crabtree TITLE: Environme SIGNATURE: Surface Waste Management Facility Authorized Agent <u>50</u>	5-632-0615



APPENDIX C

Photographic Documentation







Trunk 2C (2018) Pipeline Release





Photograph 7	DEERE
View of the final excavation, facing northwest.	
Photograph 8	the state of the second st
View of the final excavation, facing northeast.	
Photograph 9	
View of the final excavation after initial restoration.	



Appendix D

Table



	TABLE 1												
	Trunk 2C Pipeline Release												
						SOIL ANALY	TICAL SUMN	IARY		建設是約19% 和1			
Sample I.D.	Date	Sample Type C- Composite G - Grab	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)	TPH MRO (mg/kg)	Total Combined TPH (mg/kg)	Chloride (mg/kg)
New Mexico Ene Co	rgy, Mineral & Minservation Divis	Natural Resources sion, Closure Crit	s Department, Oil eria	10	NE	NE	NE	50				100	600
	The Sector					Flowpath Con	posite Soil Sam	ple			Sea Sherin Paris	2 Sectal 2 For	
FP-1	8.17.18	С	0 to 3	< 0.095	<0.19	<0.19	<0.38	ND	<19	77	<50	77	<30
			The second second	States and		Excavation Con	nposite Soil Sam	nples	and the second second	A CARLES	States and States		
S-1	8.17.18	С	0 to 10	<0.10	<0.21	<0.21	<0.41	ND	<21	<9.9	<50	ND	<30
S-2	8.17.18	С	0 to 10	< 0.093	<0.19	<0.19	< 0.37	ND	<19	<10	<50	ND	48
S-3	8.17.18	С	0 to 10	<0.022	< 0.043	< 0.043	<0.086	ND	<4.3	<9.7	<49	ND	250
S-4	8.17.18	C	0 to 10	<0.098	<0.20	<0.20	<0.39	ND	<20	<10	<50	ND	370
S-5	8.17.18	С	10	<0.092	<0.18	<0.18	< 0.37	ND	<18	<9.6	<48	ND	350

ND = Not Detected above the Practical Quantitation Limits

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = benzene, toluene, ethylbenzene, and total xylenes

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

TPH = Total Petroleum Hydrocarbon



Appendix E

Laboratory Data Sheets & Chain of Custody Documentation



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

August 22, 2018

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

OrderNo.: 1808B59

Dear Kyle Summers:

RE: Trunk 2C

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/18/2018 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 <u>www.hallenvironmental.com</u> 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 #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report						
Lab Order 1808B59						
Date Reported: 8/22/2018						

Hall Environmental Analysis Laboratory, Inc.

Lab ID:

CLIENT: APEX TITAN Client Sample ID: FP-01 Project: Trunk 2C Collection Date: 8/17/2018 9:00:00 AM 1808B59-001 Matrix: SOIL Received Date: 8/18/2018 11:15:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	8/20/2018 10:31:03 AM	39874
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	AG
Gasoline Range Organics (GRO)	ND	19	mg/Kg	5	8/20/2018 10:29:59 AM	A53553
Surr: BFB	110	70-130	%Rec	5	8/20/2018 10:29:59 AM	A53553
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	77	10	mg/Kg	1	8/20/2018 12:40:17 PM	39869
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/20/2018 12:40:17 PM	39869
Surr: DNOP	109	50.6-138	%Rec	1	8/20/2018 12:40:17 PM	39869
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	AG
Benzene	ND	0.095	mg/Kg	5	8/20/2018 10:29:59 AM	R53553
Toluene	ND	0.19	mg/Kg	5	8/20/2018 10:29:59 AM	R53553
Ethylbenzene	ND	0.19	mg/Kg	5	8/20/2018 10:29:59 AM	R53553
Xylenes, Total	ND	0.38	mg/Kg	5	8/20/2018 10:29:59 AM	R53553
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	5	8/20/2018 10:29:59 AM	R53553
Surr: Toluene-d8	95.9	70-130	%Rec	5	8/20/2018 10:29:59 AM	R53553

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808B59

Date Reported: 8/22/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN		Cl	ient Sample II): S-	1	
Project: Trunk 2C		(Collection Dat	e: 8/1	17/2018 9:05:00 AM	
Lab ID: 1808B59-002	Matrix: SOIL		Received Date	e: 8/1	18/2018 11:15:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	8/20/2018 10:43:28 AM	39874
EPA METHOD 8015D MOD: GASO	LINE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	8/20/2018 10:53:05 AM	A53553
Surr: BFB	107	70-130	%Rec	5	8/20/2018 10:53:05 AM	A53553
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/20/2018 1:04:51 PM	39869
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/20/2018 1:04:51 PM	39869
Surr: DNOP	110	50.6-138	%Rec	1	8/20/2018 1:04:51 PM	39869
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	AG
Benzene	ND	0.10	mg/Kg	5	8/20/2018 10:53:05 AM	R53553
Toluene	ND	0.21	mg/Kg	5	8/20/2018 10:53:05 AM	R53553
Ethylbenzene	ND	0.21	mg/Kg	5	8/20/2018 10:53:05 AM	R53553
Xylenes, Total	ND	0.41	mg/Kg	5	8/20/2018 10:53:05 AM	R53553
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	5	8/20/2018 10:53:05 AM	R53553
Surr: Toluene-d8	95.3	70-130	%Rec	5	8/20/2018 10:53:05 AM	R53553

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report						
Lab Order 1808B59						
Date Reported: 8/22/2018						

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Project: Trunk 2C

Client Sample ID: S-2 Collection Date: 8/17/2018 9:10:00 AM Received Date: 8/18/2018 11:15:00 AM

Lab ID:	1808B59-003	Matrix: SOIL		Received Dat	e: 8/1	18/2018 11:15:00 AM	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	MRA
Chloride		48	30	mg/Kg	20	8/20/2018 10:55:52 AM	39874
EPA MET	HOD 8015D MOD: GASOLI	NE RANGE				Analyst:	AG
Gasoline	Range Organics (GRO)	ND	19	mg/Kg	5	8/20/2018 11:16:05 AM	A53553
Surr: E	BFB	106	70-130	%Rec	5	8/20/2018 11:16:05 AM	A53553
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	Irm
Diesel Ra	ange Organics (DRO)	ND	10	mg/Kg	1	8/20/2018 1:29:25 PM	39869
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	8/20/2018 1:29:25 PM	39869
Surr: E	DNOP	106	50.6-138	%Rec	1	8/20/2018 1:29:25 PM	39869
EPA MET	HOD 8260B: VOLATILES S	HORT LIST				Analyst:	AG
Benzene		ND	0.093	mg/Kg	5	8/20/2018 11:16:05 AM	R53553
Toluene		ND	0.19	mg/Kg	5	8/20/2018 11:16:05 AM	R53553
Ethylben	zene	ND	0.19	mg/Kg	5	8/20/2018 11:16:05 AM	R53553
Xylenes,	Total	ND	0.37	mg/Kg	5	8/20/2018 11:16:05 AM	R53553
Surr: 4	4-Bromofluorobenzene	119	70-130	%Rec	5	8/20/2018 11:16:05 AM	R53553
Surr: 1	Foluene-d8	97.5	70-130	%Rec	5	8/20/2018 11:16:05 AM	R53553

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1808B59
Date Reported: 8/22/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	APEX TITAN	Client Sample ID: S-3							
Project:	Trunk 2C	Collection Date: 8/17/2018 9:15:00 AM							
Lab ID:	1808B59-004	Matrix: SOIL	L Received Date: 8/18/2018 11:15:00 AM						
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	MRA		
Chloride		250	30	ma/Ka	20	8/20/2018 11:08:16 AM	39874		

onordo	200	00	inging	20	0/20/2010 11:00:10 / 11	00011
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	8/20/2018 11:39:11 AM	A53553
Surr: BFB	107	70-130	%Rec	1	8/20/2018 11:39:11 AM	A53553
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/20/2018 1:54:04 PM	39869
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/20/2018 1:54:04 PM	39869
Surr: DNOP	106	50.6-138	%Rec	1	8/20/2018 1:54:04 PM	39869
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	AG
Benzene	ND	0.022	mg/Kg	1	8/20/2018 11:39:11 AM	R53553
Toluene	ND	0.043	mg/Kg	1	8/20/2018 11:39:11 AM	R53553
Ethylbenzene	ND	0.043	mg/Kg	1	8/20/2018 11:39:11 AM	R53553
Xylenes, Total	ND	0.086	mg/Kg	1	8/20/2018 11:39:11 AM	R53553
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	1	8/20/2018 11:39:11 AM	R53553
Surr: Toluene-d8	96.7	70-130	%Rec	1	8/20/2018 11:39:11 AM	R53553

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report	
Lab Order 1808B59	

Date Reported: 8/22/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT.	ADEV TITAN		Client	Sample I	n. c	1				
Drojost.	Trunk 2C	Collection Date: 8/17/2018 0:20:00 AM								
Lab ID:	1808B59-005	Matrix: SOIL Received Date: 8/17/2018 9:20:00 AM								
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analyst	MRA			
Chlarida		270	20		20	0/00/0010 11:00:41 AM	20074			

Chloride	370	30	mg/Kg	20	8/20/2018 11:20:41 AM	39874
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	20	mg/Kg	5	8/20/2018 12:02:16 PM	A53553
Surr: BFB	110	70-130	%Rec	5	8/20/2018 12:02:16 PM	A53553
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	lics				Analyst:	Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/20/2018 2:18:44 PM	39869
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/20/2018 2:18:44 PM	39869
Surr: DNOP	104	50.6-138	%Rec	1	8/20/2018 2:18:44 PM	39869
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	AG
Benzene	ND	0.098	mg/Kg	5	8/20/2018 12:02:16 PM	R53553
Toluene	ND	0.20	mg/Kg	5	8/20/2018 12:02:16 PM	R53553
Ethylbenzene	ND	0.20	mg/Kg	5	8/20/2018 12:02:16 PM	R53553
Xylenes, Total	ND	0.39	mg/Kg	5	8/20/2018 12:02:16 PM	R53553
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	5	8/20/2018 12:02:16 PM	R53553
Surr: Toluene-d8	93.4	70-130	%Rec	5	8/20/2018 12:02:16 PM	R53553

Qualifiers	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
Quanner 5.	D	Consult Dilated Desite Metric	Б	Value al constitution and a
	D	Sample Diluted Due to Matrix	E	value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report	
Lab Order 1808B59	

Date Reported: 8/22/2018

Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	PQL Qual Units	DF Date Analyzed	Batch
Lab ID:	1808B59-006	Matrix: SOIL	Received Dat	e: 8/18/2018 11:15:00 AM	Л
Project:	Trunk 2C		Collection Dat	e: 8/17/2018 9:25:00 AM	
CLIENT:	APEX TITAN		Client Sample II	D: S-5	

EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	350	30	mg/Kg	20	8/20/2018 11:33:06 AM	39874
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	8/20/2018 12:25:24 PM	A53553
Surr: BFB	109	70-130	%Rec	5	8/20/2018 12:25:24 PM	A53553
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	lics				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/20/2018 2:43:18 PM	39869
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/20/2018 2:43:18 PM	39869
Surr: DNOP	108	50.6-138	%Rec	1	8/20/2018 2:43:18 PM	39869
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	AG
Benzene	ND	0.092	mg/Kg	5	8/20/2018 12:25:24 PM	R53553
Toluene	ND	0.18	mg/Kg	5	8/20/2018 12:25:24 PM	R53553
Ethylbenzene	ND	0.18	mg/Kg	5	8/20/2018 12:25:24 PM	R53553
Xylenes, Total	ND	0.37	mg/Kg	5	8/20/2018 12:25:24 PM	R53553
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	5	8/20/2018 12:25:24 PM	R53553
Surr: Toluene-d8	100	70-130	%Rec	5	8/20/2018 12:25:24 PM	R53553

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Result

ND

PQL

1.5

Client: APEX TITAN Project: Trunk 2C

Analyte

Chloride

Project:	Trunk 2C									
Sample ID	LCS-39874	SampType	: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s	
Client ID:	LCSS	Batch ID	: 39	874	R	anNo: 53	3555			
Prep Date:	8/20/2018	Analysis Date	: 8/	20/2018	S	eqNo: 17	766307	Units: mg/K	g	
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Chloride		14	1.5	15.00	0	92.7	90	110		
Sample ID	MB-39874	SampType	e: mt	olk	Tes	tCode: EF	PA Method	300.0: Anion	s	
Client ID:	PBS	Batch ID	: 39	874	F	RunNo: 5	3555			
Prep Date:	8/20/2018	Analysis Date	: 8/	20/2018	S	SeqNo: 1	766308	Units: mg/K	g	

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

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
- PQL Practical Quanitative Limit
- 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

WO#: 1808B59

Qual

Qual

22-Aug-18

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WO#: 1808B59

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22-Aug-18

Client: APEX TITAN Trunk 2C **Project:** SampType: MBLK Sample ID MB-39869 TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 39869 RunNo: 53552 Client ID: PBS Prep Date: 8/20/2018 Analysis Date: 8/20/2018 SeaNo: 1765700 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10 10.00 105 50.6 138 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID LCS-39869 RunNo: 53552 Client ID: LCSS Batch ID: 39869 SeqNo: 1765701 Prep Date: 8/20/2018 Analysis Date: 8/20/2018 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 48 10 50.00 0 96.2 70 130 Surr: DNOP 5.1 5.000 102 50.6 138 Sample ID MB-39897 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK RunNo: 53552 Client ID: PBS Batch ID: 39897 Prep Date: Analysis Date: 8/21/2018 SeqNo: 1766570 Units: %Rec 8/21/2018 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 8.9 10.00 89.3 50.6 138 TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID LCS-39897 SampType: LCS Client ID: LCSS Batch ID: 39897 RunNo: 53552 SeqNo: 1766571 Prep Date: 8/21/2018 Analysis Date: 8/21/2018 Units: %Rec HighLimit %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit Qual Surr: DNOP 3.6 5.000 72.2 50.6 138

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
- PQL Practical Quanitative Limit
- 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

Client: APEX TITAN

Trunk 2C **Project:**

Sample ID	100ng Ics	SampT	ype: LC	S4	Test	Code: EF	PA Method	8260B: Volat	iles Short	List	
Client ID:	BatchQC	Batch	n ID: R5	3553	RunNo: 53553						
Prep Date:		Analysis D	ate: 8/	20/2018	S	eqNo: 17	765339	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.025	1.000	0	96.7	80	120			
Toluene		1.1	0.050	1.000	0	105	80	120			
Ethylbenzene		1.1	0.050	1.000	0	110	80	120			
Xylenes, Total		3.1	0.10	3.000	0	103	80	120			
Surr: 4-Brom	nofluorobenzene	0.54		0.5000		109	70	130			
Surr: Toluen	e-d8	0.49		0.5000		98.8	70	130			
Sample ID	rb	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8260B: Volat	tiles Short	List	
Client ID:	PBS	Batch	n ID: R5	3553	F	RunNo: 53	3553				
Prep Date:		Analysis D	ate: 8/	20/2018	S	SeqNo: 1	765346	Units: mg/M	ζg		
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-Brom	nofluorobenzene	0.59		0.5000		117	70	130			
Surr: Toluen	e-d8	0.48		0.5000		96.6	70	130			
					the second se		and the second state of th				
Sample ID	1808b59-002ams	SampT	ype: MS	54	Tes	tCode: EF	PA Method	8260B: Vola	tiles Short	List	
Sample ID Client ID:	1808b59-002ams S-1	SampT Batcl	ype: MS	54 3553	Tes	tCode: El	PA Method 3553	8260B: Vola	tiles Short	List	
Sample ID Client ID: Prep Date:	1808b59-002ams S-1	SampT Batch Analysis D	ype: M: n ID: R5 Date: 8/	54 33553 20/2018	Tes F S	tCode: EF RunNo: 5: SeqNo: 1	PA Method 3553 766082	8260B: Vola Units: mg/F	tiles Short (g	List	
Sample ID Client ID: Prep Date: Analyte	1808b59-002ams S-1	SampT Batcl Analysis D Result	ype: MS ID: R5 Date: 8/	54 i3553 i20/2018 SPK value	Tes F S SPK Ref Val	tCode: EF RunNo: 5: SeqNo: 1 %REC	PA Method 3553 766082 LowLimit	8260B: Vola Units: mg/M HighLimit	tiles Short (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene	1808b59-002ams S-1	SampT Batch Analysis D Result 4.1	ype: M ID: R5 Date: 8/ PQL 0.10	54 33553 20/2018 SPK value 4.115	Tes F S SPK Ref Val 0	tCode: EF RunNo: 5: SeqNo: 1 %REC 100	PA Method 3553 766082 LowLimit 80	8260B: Volar Units: mg/k HighLimit 120	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1808b59-002ams S-1	SampT Batch Analysis D Result 4.1 4.4	ype: M\$ n ID: R5 Date: 8/ PQL 0.10 0.21	54 33553 20/2018 SPK value 4.115 4.115	Tes F SPK Ref Val 0 0	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107	PA Method 3553 766082 LowLimit 80 80	8260B: Volar Units: mg/k HighLimit 120 120	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	1808b59-002ams S-1	SampT Batch Analysis D Result 4.1 4.4 4.4	ype: M\$ n ID: R5 Date: 8/ PQL 0.10 0.21 0.21	54 33553 20/2018 SPK value 4.115 4.115 4.115	Tes F SPK Ref Val 0 0 0 0	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107	PA Method 3553 766082 LowLimit 80 80 80 82	8260B: Volat Units: mg/# HighLimit 120 120 121	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	1808b59-002ams S-1	SampT Batch Analysis D Result 4.1 4.4 4.4 13	ype: MS n ID: R5 Date: 8/ PQL 0.10 0.21 0.21 0.41	54 33553 20/2018 SPK value 4.115 4.115 4.115 4.115 12.34	Tes F SPK Ref Val 0 0 0 0 0.08131	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105	PA Method 3553 766082 LowLimit 80 80 82 80.2	8260B: Volat Units: mg/# HighLimit 120 120 121 120	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	1808b59-002ams S-1 nofluorobenzene	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3	ype: MS n ID: R5 Date: 8/ PQL 0.10 0.21 0.21 0.41	54 33553 20/2018 SPK value 4.115 4.115 4.115 12.34 2.058	Tes F SPK Ref Val 0 0 0 0.08131	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105 110	PA Method 3553 766082 LowLimit 80 80 82 80.2 70	8260B: Vola Units: mg/P HighLimit 120 121 120 121 120 130	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen	1808b59-002ams S-1 nofluorobenzene ne-d8	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3 2.0	ype: MS Date: 8/ PQL 0.10 0.21 0.21 0.41	54 33553 20/2018 SPK value 4.115 4.115 4.115 12.34 2.058 2.058	Tes F SPK Ref Val 0 0 0 0 0.08131	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105 110 96.0	PA Method 3553 766082 LowLimit 80 80 80 82 80.2 70 70 70	8260B: Volat Units: mg/k HighLimit 120 120 121 120 130 130	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen	1808b59-002ams S-1 nofluorobenzene ne-d8 1808b59-002amsc	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3 2.0	ype: MS Date: 8/ PQL 0.10 0.21 0.21 0.41	54 i3553 i20/2018 SPK value 4.115 4.115 4.115 12.34 2.058 2.058	Tes F SPK Ref Val 0 0 0.08131 Tes	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105 110 96.0 tCode: EF	PA Method 3553 766082 LowLimit 80 80 80 80 2 80 2 70 70 70	8260B: Vola Units: mg/k HighLimit 120 120 121 120 130 130 8260B: Vola	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen Sample ID Client ID:	1808b59-002ams S-1 nofluorobenzene ne-d8 1808b59-002amsc S-1	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3 2.0 4 SampT Batch	ype: MS Date: 8/ PQL 0.10 0.21 0.21 0.41	54 33553 20/2018 SPK value 4.115 4.115 4.115 12.34 2.058 2.058 5D4 33553	Tes F SPK Ref Val 0 0 0 0 0.08131 Tes F	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105 110 96.0 tCode: EF RunNo: 5	PA Method 3553 766082 LowLimit 80 80 80 80 80 80 2 80.2 70 70 70 PA Method 3553	8260B: Vola Units: mg/k HighLimit 120 121 120 130 130 130	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen Sample ID Client ID: Prep Date:	1808b59-002ams S-1 nofluorobenzene ne-d8 1808b59-002amso S-1	SampT Batch Analysis D 4.1 4.4 4.4 13 2.3 2.0 M SampT Batch Analysis D	Type: M \$ n ID: R5 Date: 8/ PQL 0.10 0.21 0.21 0.21 0.41	54 33553 20/2018 SPK value 4.115 4.115 12.34 2.058 2.058 5D4 33553 20/2018	Tes F SPK Ref Val 0 0 0.08131 Tes F S	tCode: EF RunNo: 5: SeqNo: 1' %REC 100 107 107 105 110 96.0 tCode: EF RunNo: 5: SeqNo: 1	PA Method 3553 766082 LowLimit 80 80 80 80 2 70 70 70 PA Method 3553 766083	8260B: Vola Units: mg/k HighLimit 120 120 121 120 130 130 8260B: Vola Units: mg/k	tiles Short (g %RPD tiles Short	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen Sample ID Client ID: Prep Date: Analyte	1808b59-002ams S-1 nofluorobenzene ne-d8 1808b59-002amsc S-1	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3 2.0 M SampT Batch Analysis D Result	Type: MS Date: 8/ PQL 0.10 0.21 0.21 0.21 0.41 Type: MS Date: 8/ PQL	54 33553 20/2018 SPK value 4.115 4.115 4.115 12.34 2.058 2.058 5D4 33553 20/2018 SPK value	Tes F SPK Ref Val 0 0 0 0 0.08131 Tes F SPK Ref Val	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 107 107 105 110 96.0 tCode: EF RunNo: 5 SeqNo: 1 %REC	PA Method 3553 766082 LowLimit 80 80 80 2 80.2 70 70 PA Method 3553 766083 LowLimit	8260B: Vola Units: mg/k HighLimit 120 120 121 120 130 130 8260B: Vola Units: mg/k HighLimit	tiles Short (g %RPD tiles Short (g %RPD	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen Surr: Toluen Client ID: Prep Date: Analyte Benzene	1808b59-002ams S-1 nofluorobenzene ne-d8 1808b59-002amso S-1	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3 2.0 M SampT Batch Analysis D Result 3.9	Type: MS Date: 8/ PQL 0.10 0.21 0.21 0.41 Type: MS Date: 8/ PQL 0.10	54 33553 20/2018 SPK value 4.115 4.115 4.115 12.34 2.058 2.058 30553 20/2018 SPK value 4.115	Tes F SPK Ref Val 0 0 0 0 0.08131 Tes F SPK Ref Val 0	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105 110 96.0 tCode: EF RunNo: 5: SeqNo: 1 %REC 94.6	PA Method 3553 766082 LowLimit 80 80 80 80 82 80.2 70 70 70 70 PA Method 3553 766083 LowLimit 80	8260B: Volat Units: mg/# HighLimit 120 120 121 120 130 130 130 8260B: Vola Units: mg/# HighLimit 120	tiles Short (g %RPD tiles Short (g %RPD 5.68	List RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1808b59-002ams S-1 nofluorobenzene ne-d8 1808b59-002amsc S-1	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3 2.0 M SampT Batch Analysis D Result 3.9 4.2	Type: MS Date: 8/ PQL 0.10 0.21 0.21 0.41 Type: MS Date: 8/ PQL 0.10 0.21	54 33553 20/2018 SPK value 4.115 4.115 4.115 12.34 2.058 2.058 5D4 33553 20/2018 SPK value 4.115 4.115 4.115 4.115 3553	Tes F SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 8 131 Tes SPK Ref Val 0 0 0	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105 110 96.0 tCode: EF RunNo: 5: SeqNo: 1 %REC 94.6 102	PA Method 3553 766082 LowLimit 80 80 80 82 80.2 70 70 70 PA Method 3553 766083 LowLimit 80 80	8260B: Vola Units: mg/P HighLimit 120 120 121 120 130 130 130 8260B: Vola Units: mg/P HighLimit 120 120	tiles Short (g %RPD tiles Short (g %RPD 5.68 5.41	List RPDLimit : List RPDLimit 20 20	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Surr: Toluen Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	1808b59-002ams S-1 nofluorobenzene ne-d8 1808b59-002amsc S-1	SampT Batch Analysis D Result 4.1 4.4 4.4 13 2.3 2.0 I SampT Batch Analysis D Result 3.9 4.2 4.2	Type: M \$ pilD: R5 plate: 8/ PQL 0.10 0.21 0.21 0.21 0.41 Type: M\$ pilD: R5 polate: 8/ PQL 0.10 0.21: 0.10 0.21: 0.10 0.21: 0.21	54 33553 20/2018 SPK value 4.115 4.115 4.115 12.34 2.058 2.058 5D4 33553 20/2018 SPK value 4.115 4.115 4.115 4.115 4.115 4.115	Tes F SPK Ref Val 0 0 0 0.08131 Tes F SPK Ref Val 0 0 0 0	tCode: EF RunNo: 5: SeqNo: 1 %REC 100 107 107 105 110 96.0 tCode: EF RunNo: 5: SeqNo: 1 %REC 94.6 102 103	PA Method 3553 766082 LowLimit 80 80 82 80.2 70 70 70 PA Method 3553 766083 LowLimit 80 80 82	8260B: Vola Units: mg/P HighLimit 120 120 121 120 130 130 8260B: Vola Units: mg/P HighLimit 120 120 120 121	tiles Short (g %RPD tiles Short (g %RPD 5.68 5.41 4.55	List RPDLimit List RPDLimit 20 20 20 20 20	Qual

Qualifiers:

D Н

ND

PQL

S

* Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix

Practical Quanitative Limit

E

В

- J Analyte detected below quantitation limits

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

Analyte detected in the associated Method Blank Value above quantitation range

WO#:

1808B59

22-Aug-18

Client: APEX TITAN Project: Trunk 2C

Sample ID 1808b59-002amsc	SampType:	MSD4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: S-1	Batch ID: R53553			RunNo: 5	3553				
Prep Date:	Analysis Date:	8/20/2018	S	eqNo: 1	766083	Units: mg/k	(g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2.3	2.058		111	70	130	0	0	
Surr: Toluene-d8	1.9	2.058		94.3	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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

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WO#: 1808B59

22-Aug-18

Client: APEX TITAN Project: Trunk 2C

Sample ID	2.5ug gro lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	n ID: A5	3553	F	RunNo: 5	3553				
Prep Date:		Analysis D)ate: 8/	20/2018	S	SeqNo: 1	765336	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB		500		500.0		99.9	70	130			
Sample ID	rb	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	n ID: A5	3553	F	RunNo: 5	3553				
Prep Date:		Analysis D)ate: 8/	20/2018	5	SeqNo: 1	765337	Units: mg/M	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		520		500.0		104	70	130			
					Тее			PO1ED Made	Gasolino		
Sample ID	1808b59-001ams	Sampl	ype: MS	0	Tes	tCode: El	PA Method	8015D MOG:	Gasonne	Range	
Sample ID Client ID:	1808b59-001ams FP-01	Samp I Batch	ype: M: h ID: A5	3553	F	RunNo: 5	³ A Method 3553		Gasonne	Kange	
Sample ID Client ID: Prep Date:	1808b59-001ams FP-01	Samp I Batch Analysis D	ype: M: h ID: A5 Date: 8/	3553 20/2018	F	RunNo: 5 SeqNo: 1	³ A Method 3553 766080	Units: mg/k	(g	Range	
Sample ID Client ID: Prep Date: Analyte	1808b59-001ams FP-01	Samp I Batch Analysis D Result	ype: M: h ID: A5 Date: 8/ PQL	3553 20/2018 SPK value	F SPK Ref Val	RunNo: 5 SeqNo: 1 %REC	3553 766080 LowLimit	Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang	1808b59-001ams FP-01 ge Organics (GRO)	Samp I Batch Analysis D Result 98	ype: M: h ID: A5 Date: 8/ PQL 19	3553 20/2018 SPK value 94.70	SPK Ref Val 6.174	RunNo: 5: SeqNo: 1 %REC 97.0	A Method 3553 766080 LowLimit 64.7	Units: mg/k HighLimit 142	(g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	1808b59-001ams FP-01 ge Organics (GRO)	Samp I Batch Analysis D Result 98 2000	ype: M h ID: A5 Date: 8 / PQL 19	3553 20/2018 <u>SPK value</u> 94.70 1894	SPK Ref Val 6.174	RunNo: 5: SeqNo: 1 <u>%REC</u> 97.0 106	3553 766080 LowLimit 64.7 70	Units: mg/k HighLimit 142 130	(g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Basoline Rang Surr: BFB Sample ID	1808b59-001ams FP-01 ge Organics (GRO) 1808b59-001amsd	Samp I Batch Analysis D Result 98 2000	ype: MS h ID: A5 Date: 8/ PQL 19	3553 20/2018 SPK value 94.70 1894	SPK Ref Val 6.174	RunNo: 5: SeqNo: 1 %REC 97.0 106	A Method 3553 766080 LowLimit 64.7 70 PA Method	Units: mg/k HighLimit 142 130 8015D Mod:	(g %RPD Gasoline	RPDLimit RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	1808b59-001ams FP-01 ge Organics (GRO) 1808b59-001amsd FP-01	Samp I Batch Analysis D Result 98 2000 I SampT Batch	ype: MS h ID: A5 Date: 8/ PQL 19 Type: MS h ID: A5	3553 20/2018 SPK value 94.70 1894 5D 3553	Fes F SPK Ref Val 6.174 Tes F	RunNo: 5: SeqNo: 1 <u>%REC</u> 97.0 106 tCode: El	PA Method 3553 766080 LowLimit 64.7 70 PA Method 3553	Units: mg/ HighLimit 142 130 8015D Mod:	(g %RPD Gasoline	RPDLimit RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Basoline Rang Surr: BFB Sample ID Client ID: Prep Date:	1808b59-001ams FP-01 ge Organics (GRO) 1808b59-001amsd FP-01	Samp I Batch Analysis D Result 98 2000 I SampT Batch Analysis D	ype: M3 h ID: A5 Date: 8/ PQL 19 Type: M3 h ID: A5 Date: 8/	3553 20/2018 SPK value 94.70 1894 SD 3553 20/2018	Fes F SPK Ref Val 6.174 Tes F S	RunNo: 5: SeqNo: 1 %REC 97.0 106 tCode: El RunNo: 5: SeqNo: 1	A Method 3553 766080 LowLimit 64.7 70 PA Method 3553 766081	Units: mg/k HighLimit 142 130 8015D Mod: Units: mg/k	(g %RPD Gasoline	RPDLimit RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Basoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte	1808b59-001ams FP-01 ge Organics (GRO) 1808b59-001amsd FP-01	Samp I Batch Analysis D Result 98 2000 I SampT Batch Analysis D Result	ype: MS h ID: A5 Date: 8/ PQL 19 Type: MS h ID: A5 Date: 8/ PQL	3553 20/2018 SPK value 94.70 1894 3553 20/2018 SPK value	SPK Ref Val 6.174 Tes SPK Ref Val	Code: EF RunNo: 5: SeqNo: 1' %REC 97.0 106 tCode: EF RunNo: 5: SeqNo: 1' %REC	PA Method 3553 766080 LowLimit 64.7 70 PA Method 3553 766081 LowLimit	Units: mg/k HighLimit 142 130 8015D Mod: Units: mg/k HighLimit	(g %RPD Gasoline (g %RPD	RPDLimit RPDLimit Range	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang	1808b59-001ams FP-01 ge Organics (GRO) 1808b59-001amsd FP-01 ge Organics (GRO)	Samp I Batch Analysis D 98 2000 I SampT Batch Analysis D Result 95	ype: MS h ID: A5 Date: 8/ PQL 19 Type: MS h ID: A5 Date: 8/ PQL 19	3553 20/2018 SPK value 94.70 1894 3553 20/2018 SPK value 94.70	SPK Ref Val 6.174 Tes SPK Ref Val 6.174	Code: El RunNo: 5: SeqNo: 1' %REC 97.0 106 tCode: El RunNo: 5: SeqNo: 1' %REC 94.0	PA Method 3553 766080 LowLimit 64.7 70 PA Method 3553 766081 LowLimit 64.7	Units: mg/k HighLimit 142 130 8015D Mod: Units: mg/k HighLimit 142	(g %RPD Gasoline (g %RPD 2.94	RPDLimit RPDLimit Range 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
- PQL Practical Quanitative Limit
- 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

1808B59

WO#:

22-Aug-18

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L ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environment A. TEL: 505-345-39 Website: www.	al Analysis Labora. 4901 Hawkins Ibuquerque, NM 87 75 FAX: 505-345-4 hallenvironmental.	tory NE 109 107 com	ple Log-In Check List
Client Name: APEX AZTEC	Work Order Numb	er: 1808B59		RcptNo: 1
Received By: Anne Thorne	8/18/2018 11:15:00	MA	anne Han	-
Completed By: Anne Thome Reviewed By: IO Labeled by: ATO	8/20/2018 7:39:14 A Eral (8 8/26/17	М	Arme Ar	
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?	, ,	Courier		
Log In 3. Was an attempt made to cool the	samples?	Yes 🗹	No 🗌	NA 🗌
4. Were all samples received at a ter	nperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample volume for indica	ated test(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ON	G) properly preserved?	Yes 🖌	No 🗌	
8. Was preservative added to bottles	?	Yes	No 🗹	NA 🗌
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials
10. Were any sample containers rece	ived broken?	Yes	No 🗹	# of preserved
11. Does paperwork match bottle labe (Note discrepancies on chain of cu	ls? istody)	Yes 🖌	No 🗌	for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on	Chain of Custody?	Yes 🖌	No 🗌	Adjusted?
13. Is it clear what analyses were requ	ested?	Yes 🗹	No 🗌	
14. Were all holding times able to be n (If no, notify customer for authorization)	net? ation.)	Yes 🗹	No 🗌	Checked by:
Special Handling (if applicabl	e)			
15. Was client notified of all discrepar	ncies with this order?	Yes	No 🗌	NA 🗹
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:	eMail Pi		In Person
16. Additional remarks:	ball Sile I		C I I	1.
17. <u>Cooler Information</u> Cooler No Temp °C Conc 1 1.1 Good	ition Seal Intact Seal No Yes	Seal Date	Signed By	> / As 08/20/13

						3			CHAIN OF CUSTODY RECORD
×	Haboratoni	all En	Uiron m-	ent			5	7/	Lab use only Due Date:
APEX	Addross 490	1 Hani	Kins N	F		/.	<u></u> [] /]		
Other Lock S Rig	Address: The Markins ME					/_	"///	/ /	Temp. of coolers
Chice Location	Contact: A	A Cin Sher				No.		/ /	
Azter AIM & 7410	Phone: 505	740	- 357	~		14			
Project Manager & Summer's	P HONE					00	0///	/ / ./	
Sampler's Name	Sampler's Signature				1 '	4/S/ 7	5/ / /	/ /e	
al 1 DA la	N	15	7		1 Carl	a la		1.	
Project Name	(A a	No/	Type of Contain	ners	w w	N O			
2350010112497 Trunk :	20	-			M	10	111	//	/-
Matrix Date Time C G m a Identifying Mar p b	ks of Sample(s)	End Depth VOA	A/G 250	Glass Jar P/O	10	T I I			Lab Sample ID (Lab Use Only)
S 8/17/18 900 X FP-	1 0	3		1	XX	¥	ж 		1308859-00
S 8/17/18 905 × S-1	0	10		1	XX	×			205
5 8/0/18910 × S-2	0 0	10		1	XX	¥			703
5 \$/10/10 915 X 5-3	3 0	10		1	XK	K			704
5 8/2/10 920 x S-1	1 0	10		1	VK	X			705
5 8/0/18 935 K 5-	5 -	10		1	x x	¥			7.04
							Ve	\$	
Turn around time 🛄 Normal 🛄 25% Rush 🖓	50% Rush 227100%	Rujsh							¢ .
Relinquished by (Signature) Date: T	ime: Received by:	(Signature)	F	Date:	Time:	NOTES	Paul	Kan	# 1072255
Relinquished by (Signature) Date: T	ime: Received by:	(Signature)		Date:	Time:		Ray	Treg	+ Chide 35 -
Mistuliale 8/17/18/18	39 ///n	(Signatura)	081	17/18 Data:	1115		AFE	10m	27722
/ Date: 1	me naceiveu by:	(Signature)		Date:	nme:		AFE	4 1 V	31133
Relinquished by (Signature) Date: T	ime: Received by:	(Signature)		Date:	Time:		Sar	e De	y \$-20-18
Matrix WW - Wastewater W - Water S Container VOA - 40 ml vial A/G - Amber / Or	- Soil SD - Solid L Glass 1 Liter 2	-Liquid / 50 ml - Glass	A - Air Bag wide mouth	C - Cha P/O - Pl	rcoal tube astic or oth	SL - slude	ge O-	Oil	

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204