NM OIL CONSERVATION ARTESIA DISTRICT

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

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

Source of Release

Was Immediate Notice Given?

D. Whom? Varalina Dlanes

Flare Stack

State of New Mexico Energy Minerals and Natural Resources

JAN 0 2 2018 AB

NMOCD Heather Patterson, Crystal Weaver & Michael Bratcher, SLO Amber

Form C-141 Revised August 8, 2011

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

Date and Hour of Discovery

12/21/2016 - 10:00 hrs MT

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

Release Notification and Corrective Action OPERATOR Initial Report Final Report WPX Energy Inc/RKI 2410384 Karolina Blaney Contact Address 5315 Buena Vista Dr. Telephone No. 970 589 0743 Facility Name: Pinnacle 36-32H Facility Type: Well Pad Surface Owner: State Mineral Owner: State API No. 30-015-41587 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County **22S** 28E 150 **FNL** 1700 C 36 **FWL** Eddy Latitude: 32.355955527N Longitude: -104.043666686W NATURE OF RELEASE Type of Release. Oil Volume of Release: 8 Bbls Volume Recovered: 0 Bbls

Date and Hour of Occurrence

1 II 12/21/16 15:00 h... MT

12/21/2016

Groves

☐ Yes ☐ No ☒ Not Required

If YES, To Whom?

By whom? Karolina Blaney	Date and Hour: 12/21/16–15:00 nrs W1
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
☐ Yes ☒ No	N/A
If a Watercourse was Impacted, Describe Fully.* N/A	
Describe Cause of Problem and Remedial Action Taken.*	
The spill was caused by equipment failure; dumps on the heater treater	were not working properly which resulted in oil spraying out of the flare stack.
Describe Area Affected and Cleanup Action Taken.*	
	st of the well pad. After receiving SLO's approval, the impacted soil off location EX and TPH in accordance with NM OCD Guidelines for Remediation of Leaks, al results.
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remediately i	to the best of my knowledge and understand that pursuant to NMOCD rules and se notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability diate contamination that pose a threat to ground water, surface water, human health rt does not relieve the operator of responsibility for compliance with any other
Kamlina Blaney Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialists Symmetry Approved by Environmental Symmetry Approximate Symmetry Appro
Printed Name: Karolina Blaney	Approved by Environmental Specialist
Title: Environmental Specialist	Approval Date: 1411 Expiration Date: N/A
E-mail Address: Karolina.blaney@wpxenergy.com	Conditions of Approval: Attached
Date: 1/2/2017 Phone: 970-589-0743	I WE WETHING
Attach Additional Sheets If Necessary	10D 10E

f New Mexico Incident ID NADAZONAS 4204

Incident ID	NAB1700454394
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district of fice no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>51 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data	ls.
Data table of soil contaminant concentration data	
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs	
Photographs including date and GIS information Topographic/Aerial maps	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

☐ Laboratory data including chain of custody

Received by OCD: 9/22/2021 8:49:03 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 3 of	81
Incident ID	NAB1700454394	
District RP		
Facility ID		
Application ID		

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.						
Printed Name: Jim Raley	Title: Environmental Professional					
Printed Name: Jim Raley Signature:	Date:9/22/2021					
email: jim.raley@dvn.com Telephone: 575-689-7597						
OCD Only						
Received by:	Date:					

Remediation Plan Checklist: Each of the following items must be included in the plan.

Page 4 of 81

Incident ID NAB1700454394
District RP
Facility ID
Application ID

Remediation Plan

 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 							
Deferral Requests Only: Each of the following items must be con-	afirmed as part of any request for deferral of remediation.						
	roduction equipment where remediation could cause a major facility						
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.						
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. Printed Name:							
OCD Only	D. A.						
Received by:							
Approved Approved with Attached Conditions of Signature:	Approval						
Signature: Juttam Hall	Date: 10/6/2022						

Conditions of Approval:

1. Based on the laboratory data, chloride results for SS04 at 6" (0.5 ft) is 5,510 mg/kg not 148 mg/kg. Additional horizontal delineation will need to be performed south of SS04 in addition to the proposed sample locations illustrated on Figure 2.

wsp

WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

June 8, 2021

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Remediation Work Plan
Pinnacle 36-32H
Incident Number nAB1700454394 (2RP-4058)
WPX Energy Permian, LLC.
Eddy County, New Mexico

To Whom it May Concern:

WSP USA (WSP), on behalf of WPX Energy Permian, LLC. (WPX), is pleased to present the following Remediation Work Plan detailing site assessment and soil sampling activities at the Pinnacle 36-32H (Site) located in Unit C, Section 36 Township 22 South, Range 28 East, Eddy County, New Mexico (Figure 1). The purpose of the remediation and soil sampling activities was to address impacts to soil resulting from a release of crude oil at the Site by safely excavating impacted soil to the extent possible based on Site conditions. Additional soil sampling activities are being proposed to confirm the presence or absence of remaining impacts to soil associated with the subject release. Based on field observations, field screening activities, and laboratory analytical results from soil sampling activities, WPX is submitting this Remediation Work Plan describing remediation that has occurred and a proposal for additional delineation activities.

RELEASE BACKGROUND

On December 21, 2016, failure of the dumps on the heater treater caused the release of approximately 8 barrels (bbls) of oil to spray out of the flare stack and into the adjacent pasture pipeline Right-of-Way (ROW). WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on January 2, 2017 and was subsequently assigned Incident Number nAB1700454394 and Remediation Permit (RP) Number 2RP-4058. An initial photo of the release is provided in Attachment 1. The release area was immediately excavated to the extent possible following land access approval from the New Mexico State Land Office (SLO).

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). There are no regional or Site-specific hydrological conditions, such as shallow



surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. Depth to groundwater at the Site is estimated to be greater than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted water well with depth to water data is New Mexico Office of the State Engineer (NMOSE) file number C-04417, located approximately 0.72 miles south of the Site. NMOSE well C-04417 was drilled by WPX on March 31, 2020 during a depth to water study of the area. Using a truck mounted drill rig equipped with hollow stem augers, the soil boring was advanced to a total depth of approximately 55 feet bgs. Groundwater was not observed within the soil boring after 48 hours and the boring was plugged and abandoned on April 3, 2021. This boring was installed at a topographically lower elevation and between the Site and the Pecos River, indicating groundwater beneath the Site is likely deeper than the boring location. The NMOSE Well Record and Log of the referenced well is included as Attachment 2.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 710 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential Site receptors are identified on Figure 1.

GEOLOGIC BACKGROUND

The local surface geology is recognized as the Gatuna Formation, which is known to be "capped by gravel-bearing calcrete, [range from] 0.5 [to] 1.0 [meter] thick" (NMT Publications)¹. This calcrete cap, also called an indurated caliche layer, has been observed and documented in the in the vicinity of the Site by work conducted through the New Mexico Geological Society. Consistently throughout the Site and its surrounding, the Gatuna Formation is well associated with "carbonate concretion" and "concretionary zones", which often correlates with the named Mescalero caliche (Powers and Holt 1993)². The Mescalero caliche caps the Gatuna Formation "almost everywhere the Gatuna [Formation] is exposed (USGS)³," and is well known as a well-cemented calcareous deposit in the Permian Basin.

¹ https://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/77/OFGM-77_Loving.pdf

² Dennis W. Powers and Robert M. Holt, 1993, pp. 271-282in:Carlsbad Region (New Mexico and West Texas), Love, D. W.; Hawley, J. W.; Kues, B. S.; Austin, G. S.; Lucas, S. G.;[eds.], New Mexico Geological Society 44th Annual Fall Field Conference Guidebook, 357 p.

³ https://ngmdb.usgs.gov/Geolex/UnitRefs/MescaleroRefs_9278.html

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

 Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 10,000 mg/kg

The reclamation closure criteria of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be immediately reclaimed following remediation.

INITIAL REMEDIATION AND SOIL SAMPLING ACTIVITIES

On January 18, 2017, WPX personnel visited the Site to evaluate the extent of the release shortly following the release event and conducted initial scraping activities within the affected pasture area directed by surface staining. The release extent was mapped using a handheld Global Positioning System (GPS) unit, which is depicted on Figure 2. One soil sample (Pinnacle 36-32) was collected from the initial excavation. The location of the soil sample is depicted on Figure 2. The soil sample was submitted to ALS Environmental (ALS) located in Holland, Michigan for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8260B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following (NEMI) Method A4500-CL E-97. Based on laboratory analytical results for soil sample Pinnacle 36-32, delineation activities appeared warranted.

DELINEATION SOIL SAMPLING ACTIVITIES

On September 28, 2018, WSP personnel inspected the Site to further evaluate the release area and conduct delineation activities. A total of five soil samples (SS01 through SS05) were attempted utilizing a hand auger within the release area to assess for the presence or absence of impacted soil. During delineation activities, refusal was encountered at a competent, dense caliche stratum at the ground surface to approximately 0.5-foot bgs. Soil sample SS02 was collected as close to the original location of soil sample Pinnacle 36-32. The locations of soil samples are depicted on Figure 2. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Midland, Texas, for analysis of



BTEX following EPA Method 8021B; TPH- GRO, TPH-DRO, and TPH-ORO following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation of the Site assessment is provided in Attachment 1.

Between October 5 and 11, 2018, WSP personnel visited the Site for further delineation of the release extent utilizing heavy mechanical equipment and hammer drill attachment. Close inspection of the rock deemed it as an impermeable surface with a mature cement that was not only impenetrable with heavy equipment, but generally appeared impermeable to liquids. At that point a decontaminated hammer drill and excavator bucket were used to sample the rock, ensuring that samples collected were representative of the rock itself and not the overlying loose soil. The indurated caliche stratum was present from the ground surface to approximately 4 feet bgs. WSP collected at least two soil samples per sampling location: at the highest observed field screening depth and terminus of each soil sample location. Soil samples were collected, handled, and analyzed as previously described. Field screening results and observations for each soil sample were recorded on lithologic/soil sampling logs which are included in Attachment 3. The soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that identified TPH within the pasture release footprint at ground surface only (SS01 and Pinnacle 36-32/SS02) and exceeds the reclamation standard for TPH. Laboratory analytical results indicated that chloride within the pasture release footprint ranged from ground surface to 2 feet bgs only (SS01, SS02 and SS03) and exceeds the reclamation standard for chloride. The TPH and chloride concentrations are delineated vertically within the subject release area.

Laboratory analytical results indicated TPH and chloride concentrations were compliant with the reclamation standard in soil sample SS04 and confirms vertical and lateral delineation to the south of the release. Laboratory analytical results indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in soil sample SS05. The laboratory analytical results are summarized on the attached Table 1 and complete laboratory analytical reports are included in Attachment 4.

VEGETATION ASSESSMENT

On April 28, 2021, WSP personnel returned to the Site to assess soil and vegetation impacts within the release extent. Vegetation surrounding the initially scraped area appeared to be unhindered by any potential residual soil impacts. There was no evidence of surficial staining throughout the release extent. Photographic documentation of the Site assessment is provided in Attachment 1.



REMEDIATION WORK PLAN

Vertical impacts within the release have been generally defined but additional sampling is required to define the lateral extent and further explore potential impacts within the release area east of SSO1. Additional delineation will be advanced with a Shaw Tool, Ltd Portable Core Drill to extents practicable and/or compliant with the reclamation standard and Closure Criteria. The proposed delineation locations in accompaniment with previous delineation locations are depicted on Figure 2. Proposed delineation locations surrounding the release will be advanced no more than 1-foot bgs to represent immediate horizontal delineation.

If the caliche shelf is shown to be consistent and seemingly impermeable and field screening indicates that any remaining residual impacts have not migrated into the subsurface, WPX will submit a Variance and Closure Request to leave the caliche strata and the soil below in place. WSP and WPX believe that the removal of the indurated caliche will require significant heavy equipment and is not a practical means of remediation. WSP and WPX argue that the potential consequences that could arise from utilizing advanced equipment to investigate or remove remaining chloride impacts by fracturing the caliche formation barrier and forming a potential conduit to the subsurface could be greater than leaving the impacts in place.

CONCLUSION

Following successful delineation as demonstrated through laboratory analytical results, a Variance Closure Request will be provided to the NMOCD. Additional subsurface investigation will confirm if the Mescalero or other unnamed indurated caliche is present and exhibits impermeable properties. If such an impermeable nature of the caliche is observed, it is likely the formation will continue to restrict downward migration of residual TPH and chloride concentrations. Should the caliche ever be exposed by erosion, it will require significantly more water volume to remove any remaining TPH and chloride concentrations from the tightly grained formation. Therefore, a variance to leave elevated TPH and chloride in the caliche will not be a risk to the health of the community or environment.

If you have any questions or comments, please do not hesitate to contact Mr. Daniel R. Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

Anna Byers

Consultant, Geologist

Daniel R. Moir, P.G.

Lead Consultant, Geologist



cc: Jim Raley, Devon

New Mexico State Land Office

Attachments:

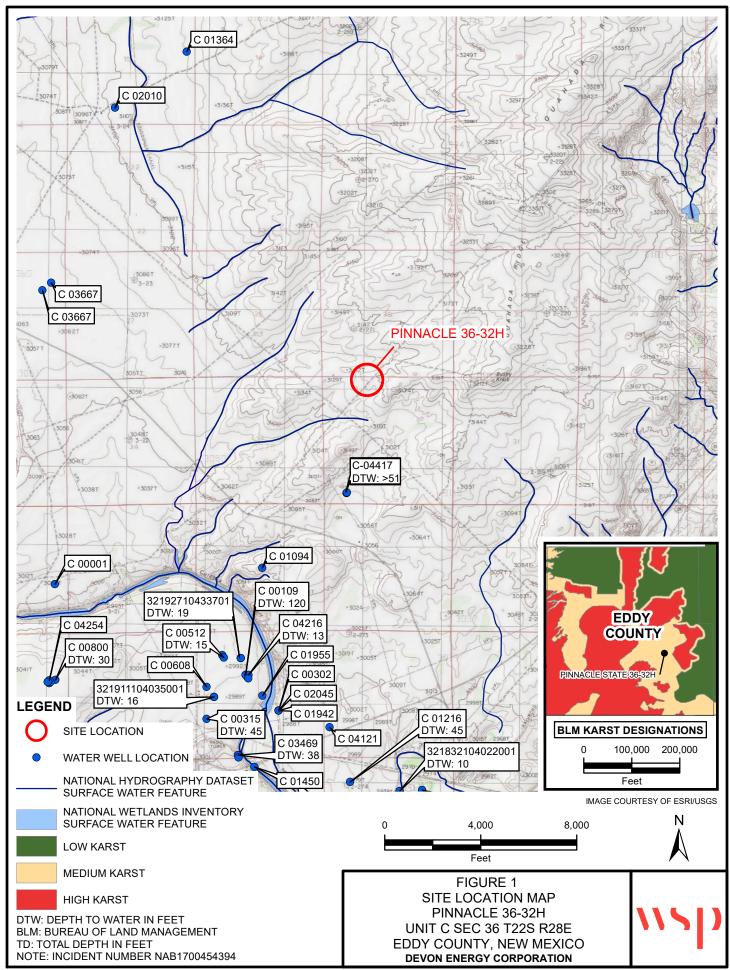
Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations

Table 1 Soil Analytical Results Attachment 1 Photographic Log

Attachment 2 Referenced Well Records
Attachment 3 Lithologic/Soil Sampling Logs

Attachment 4 Laboratory Analytical Reports



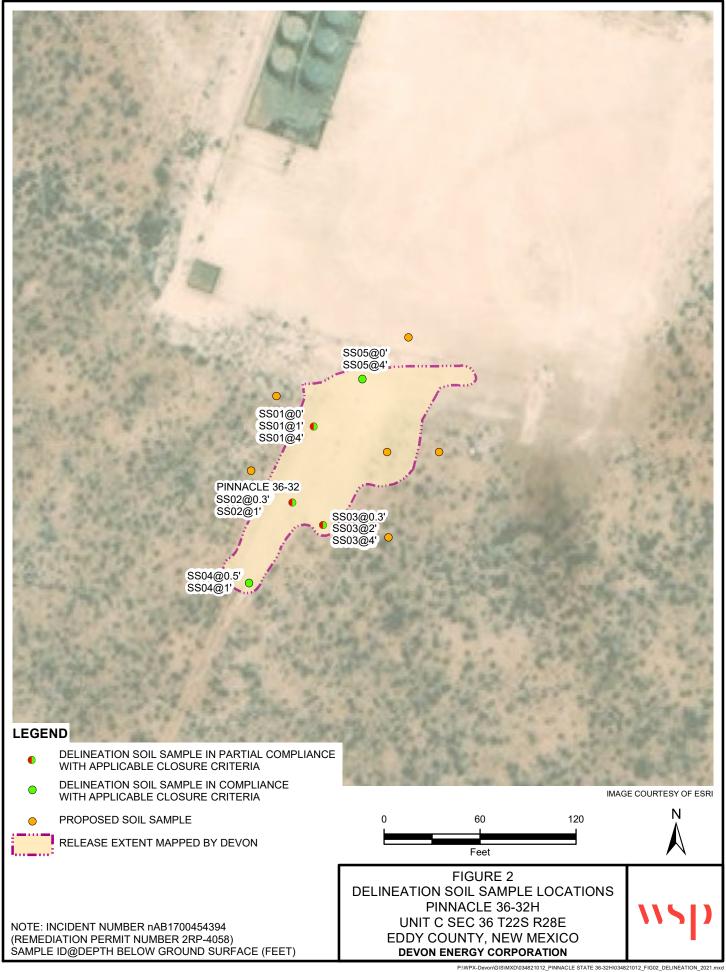


Table 1

Soil Analytical Results Pinnacle 36-32H Incident Number nAB1700454394 WPX Energy Permian, LLC. Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Samples										
SS01	09/28/2018	Surface	< 0.00200	< 0.00200	1,340	<15.0	39.5	1,340	1,380	1,030*
SS01	10/05/2018	1	< 0.00202	< 0.00202	<14.9	<14.9	<14.9	<14.9	<14.9	681*
SS01	10/11/2018	4	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	221
Pinnacle 36-32	01/18/2017	NA	< 0.039	< 0.039	1,400	<3.2	940	1,400	2,340	2,900*
SS02	09/28/2018	0.3	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	5,050*
SS02	10/05/2018	1	< 0.00199	< 0.00199	<15.0	19.9	<15.0	19.9	19.9	392
SS03	09/28/2018	0.3	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	5,510*
SS03	10/05/2018	2	< 0.00200	< 0.00200	<15.0	28.3	<15.0	28.3	28.3	1,310*
SS03	10/11/2018	4	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	73.5
SS04	09/28/2018	0.5	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	148
SS04	10/05/2018	1	< 0.00202	< 0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
SS05	09/28/2018	Surface	< 0.00200	< 0.00200	66.2	<15.0	25.2	66.2	91.4	343
SS05	10/05/2018	4	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	818

Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

* - indicates sample was collected in area to be reclaimed;

reclamation criteria in the top 4 feet of soil is 100 mg/kg for TPH and 600 mg/kg for chloride



	PHOTOGRAPHIC LOG	
WPX Energy Permian,	Pinnacle 36-32H	TE034821012
LLC.	Eddy County, NM	

Photo No. Date
December 21,
2016

Initial photo of the release facing south-southeast.



Photo No. Date
September 28,
2018

South view of the Site before delineation activities.





	PHOTOGRAPHIC LOG	
WPX Energy Permian,	Pinnacle 36-32H	TE034821012
LLC.	Eddy County, NM	

Photo No.	Date				
3	April 28, 2021				
Southwest view of the Site during					
the Vegetation Assessment.					



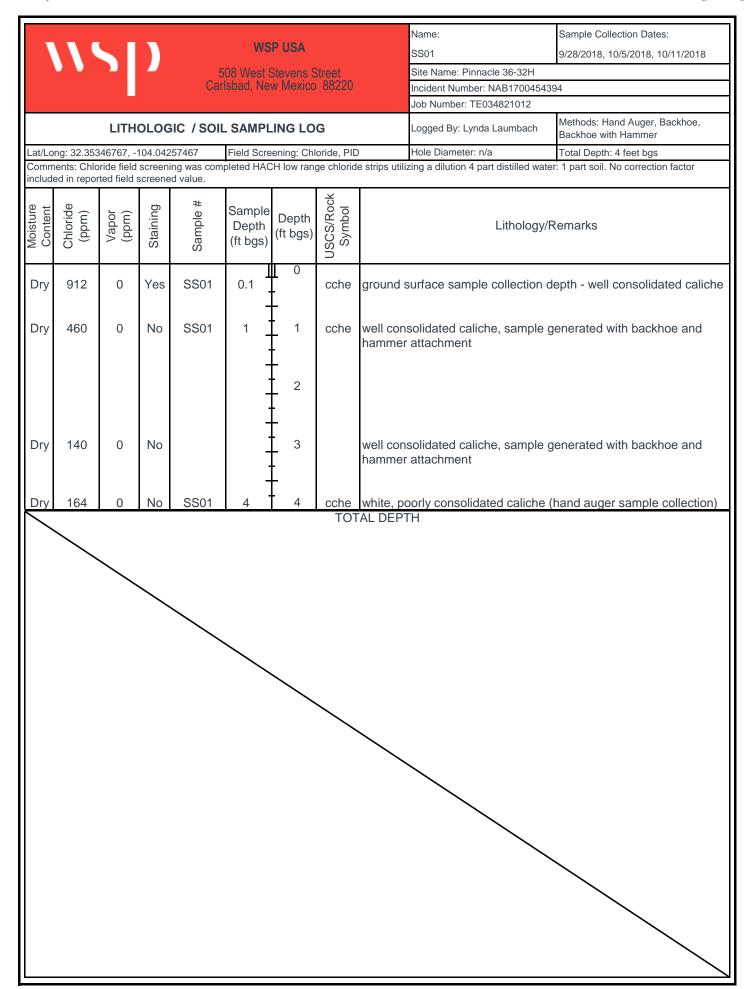
Photo No.	Date				
4	April 28, 2021				
Southwest view of the Site during					
the Vegetation Assessment					

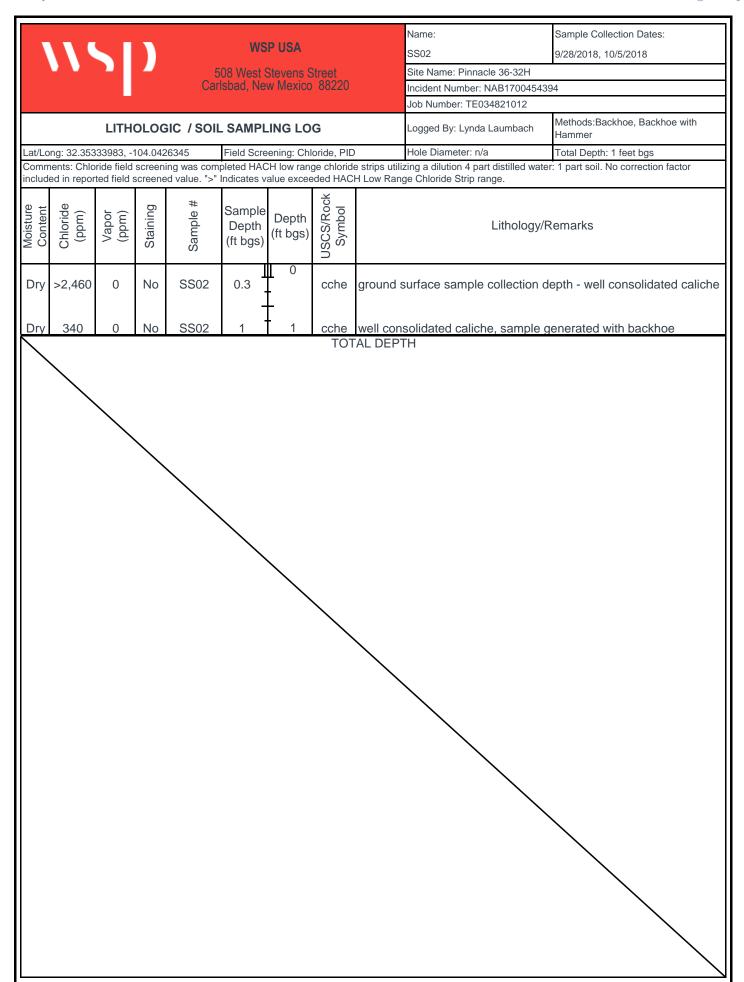


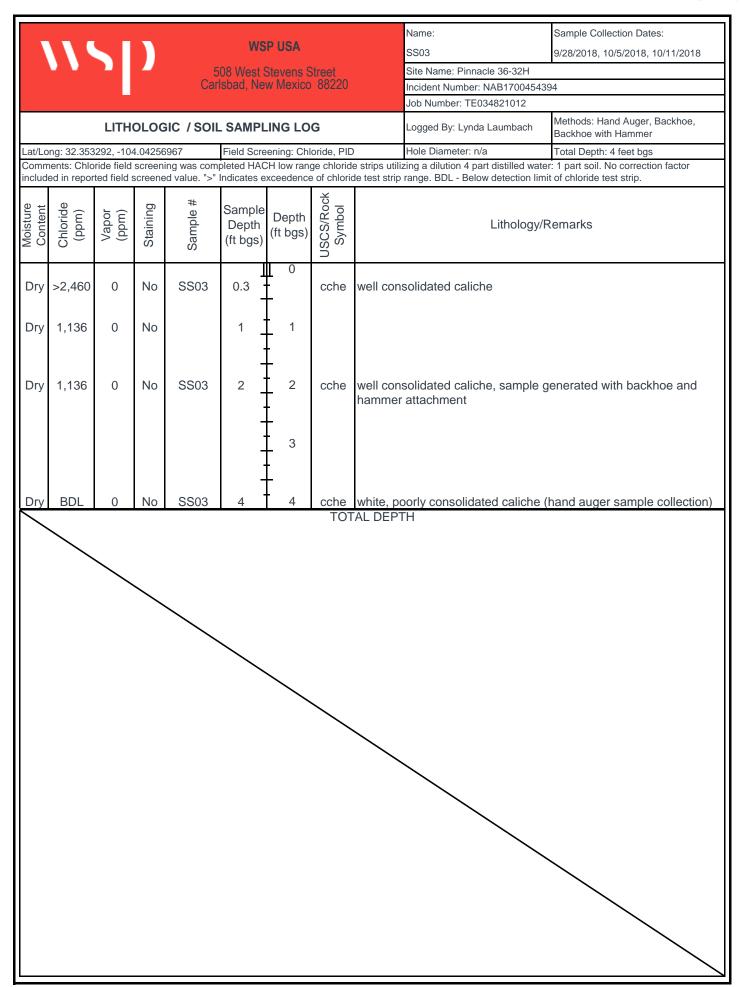


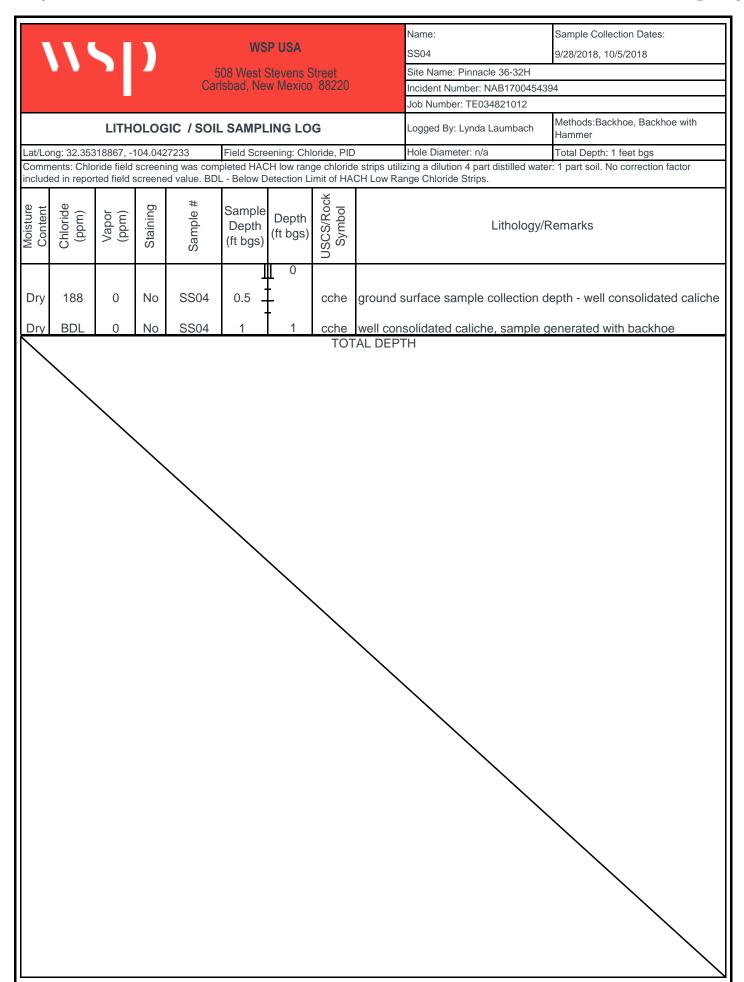
NO	OSE POD NO. (WELL NO.) POD1 WELL TAG ID NO. Well Tag ID Not Issued								OSE FILE NO(S). C 04417			
OCATI	WELL OWNER NAME(S) WPX Energy								PHONE (OPTIONAL)			
GENERAL AND WELL LOCATION	WELL OWNE 5315 Buens							CITY STATE ZIP Carlsbad NM 88220			ZIP	
2	WELL		DE	EGREES	MINUTES	SECONE	S					
L A	LOCATIO	N TA	ГІТUDE	32	20	35.4	N	* ACCURACY	Y REQUIRED: ONE TEN	TH OF A SECOND		
ERA	(FROM GPS)	S) E11		-104	02	47.1		* DATUM RE	QUIRED: WGS 84			
EN	DESCRIPTION	N RELATIN	NG WELL LOCATION TO	STREET ADDRE	SS AND COMMON	I LANDMAI	RKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WE	IERE AVAILABLE		
1.0	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE M-36-22S-28E; Pinnacle State #25											
	LICENSE NO.		NAME OF LICENSED						NAME OF WELL DR	ILLING COMPANY		
	178	9		Ŋ	Mark Mumby				HRL C	Compliance Solutions		
	DRILLING ST 3/31/2		DRILLING ENDED 3/31/2020	DEPTH OF COM	PLETED WELL (F1	T)]	ORE HO	LE DEPTH (FT) 55		ST ENCOUNTERED (FT) was not encountered		
z	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLO	W (UNCON	FINED)			VEL IN COMPLETED WE esent in the well aft		
TIO	DRILLING FL	.UID:	_ AIR	MUD	ADDITIV	ES – SPECII	Y:		N-			
)RM	DRILLING METHOD:					ool [OTHE	R - SPECIFY:	Hollow Stem Auger			
NFC	DEPTH (H (feet bgl) BORE HOLE C.		CASING M	CASING MATERIAL AND/OR		SING	CASING	CASING WALL	GI OT		
DRILLING & CASING INFORMATION	FROM TO DIAM		GRADE (include each casing string, and		CONNECTION		INSIDE DIAM.	THICKNESS	SLOT SIZE			
			(inches)		note sections of screen)		TYPE (add coupling diameter)		(inches)	(inches)	(inches)	
	0	45	6.25	Blank PVC			Flush	1 Thread	2.0	0.154	0.010	
NG	45	45 55 6.25		Factory Slotted PVC Screen		en	Flush Thread		2.0	0.154	0.010	
H												
PR												
2.												
	DEPTH (feet bgl)	BORE HOLE	LIST	ANNULAR SE	EAL MATI	ERIAL A	ND	AMOUNT	метно	D OF	
AL	FROM	ТО	DIAM. (inches)	GRAVI	GRAVEL PACK SIZE-RANGE BY INTERVAL			RVAL	(cubic feet) PLACEME			
ANNULAR MATERIAL				No	Annular Seal Ma	aterial or C	ravel Pa	ck	None			
MA [(8)											
AR												
ğ												
AN		•										
က်												
FOR-	OSE INTERN	NAL USE			POD NO.	-		WR-20		& LOG (Version 04/3))/19)	
_	ATION				TODINO	•		IKNI		PACE	1.07.0	

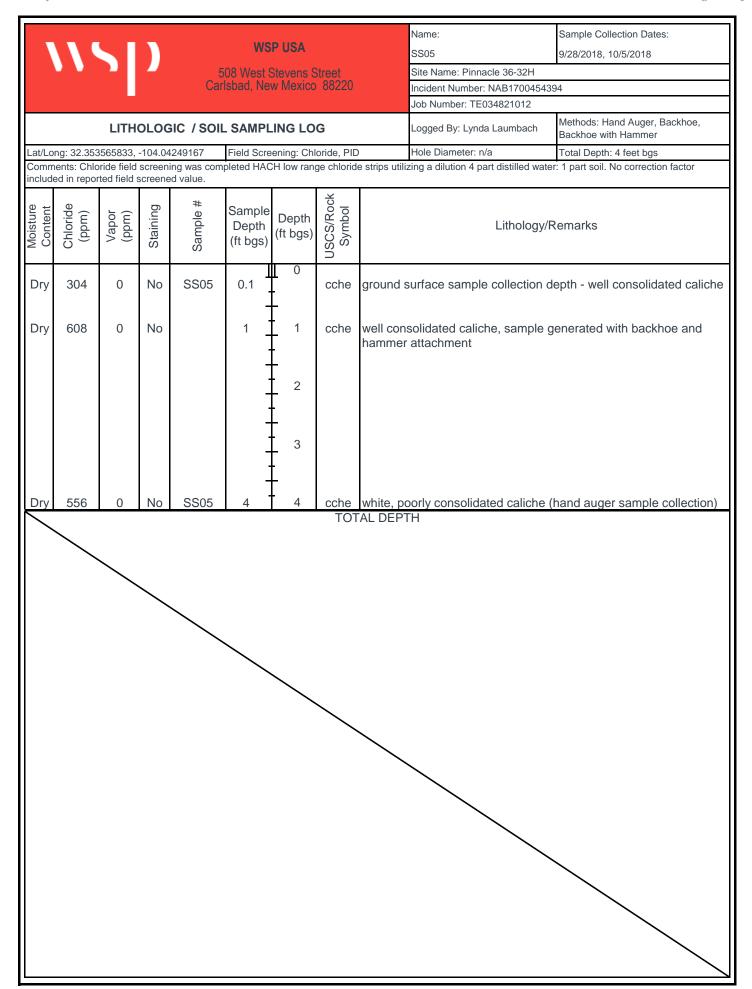
	DEPTH (feet bgl)	THICKNESS (feet)	INCLUDE WAT	ND TYPE OF MATERIAL ER-BEARING CAVITIES pplemental sheets to fully	OR FRACTURE ZO	NES	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING
			55	(ZONES (gpm)
	0	55	55		Silt/Sand with Interbedded	caliche		Y VN	0.00
								Y N Y N	
								Y N	
								Y N	
.,								Y N	
VELJ								YN	
4. HYDROGEOLOGIC LOG OF WELL								YN	
90								Y N	
IC L								Y N	
503								Y N	
EO								Y N	
R00								Y N	
HXD								Y N	
4.								Y N	
	01							Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:		TOTA	AL ESTIMATED	
	PUMP	A	IR LIFT	BAILER O	THER - SPECIFY: Water 1	Not Encountered	WEI	LL YIELD (gpm):	0.00
/ISION	WELL TEST	TEST :	RESULTS - ATTA I TIME, END TIM	ACH A COPY OF DATE, AND A TABLE SE	TA COLLECTED DURING HOWING DISCHARGE AN	WELL TESTING, II ND DRAWDOWN O	NCLUDI VER TH	NG DISCHARGE I E TESTING PERIC	METHOD, D.
TEST; RIG SUPERVISI	MISCELLAN	EOÙS INF	was	s monitored for the p	ermine depth to groundwaresence of water 48-house well was subsequently	rs after drilling was	comple	as a temporary we	ell. The well encountered in
res1	PRINT NAM	E(S) OF DE	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION OF WELL CO	NSTRU	CTION OTHER TH	AN LICENSEE:
5.	Kalvin (Kelly	y) Padilla							
6. SIGNATURE	RECORD OF	THE ABO	VE DESCRIBED '	WELL. I ALSO CERT WITH THE PERMIT H	F MY KNOWLEDGE AN IFY THAT THE WELL TA IOLDER WITHIN 30 DAYS Mark Mumby	G, IF REQUIRED, H	IAS BEE	N INSTALLED AN	ID THAT THIS
6. SI	_///	SIGNATI	RE OF DRILLER	_///	<u> </u>		4/1	3/2020	
		JIGNATU	NE OF DRILLER	7 TRINI SIGNEE	NAME			DATE	
	OSE INTERN	AL USE					ELL REC	CORD & LOG (Ver	sion 04/30/2019)
_	E NO.				POD NO.	TRN NO.			
LOC	CATION		_			WELL TAG ID NO)		PAGE 2 OF 2













Certificate of Analysis Summary 600816

LT Environmental, Inc., Arvada, CO

Project Name: Pinnacle 36-32H

Project Id: Contact:

Project Location:

Adrian Baker

NM, Eddy 2RP-4058

Date Received in Lab: Sat 09.29.2018 09:00

Report Date: 06.08.2021 13:48

Page 29 of 81

Project Manager: Jessica Kramer

Lab Id: Field Id:	600816-0 SS01	001	600816-0	02	600816-0	103	600816-0	JU4 I	600816-0		
	SS01										
	SS01		SS03		SS04		SS02		SS05		
Depth:	Surface-		4- In		6- In		4- In		Surface-	In	
Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
Sampled:	09.28.2018	13:00	09.28.2018	13:15	09.28.2018	13:20	09.28.2018	13:30	09.28.2018	13:35	
extracted:	10.05.2018	16:45	10.05.2018	16:45	10.05.2018	16:45	10.05.2018	16:45	10.09.2018	08:00	
Analyzed:	10.06.2018	12:42	10.06.2018	13:03	10.06.2018	13:24	10.06.2018	13:45	10.09.2018	15:37	
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
	< 0.00399	0.00399	< 0.00401	0.00401	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00401	0.00401	
	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
extracted:	10.03.2018	09:00	10.03.2018	09:00	10.03.2018	09:00	10.03.2018	09:00	10.03.2018	09:00	
Analyzed:	10.03.2018	15:02	10.03.2018	15:07	10.03.2018	15:24	10.03.2018	15:30	10.03.2018	15:36	
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	1030	5.03	5050	50.0	5510	50.0	148	4.97	343	5.01	
extracted:	10.03.2018	07:50	10.03.2018	07:50	10.02.2018	07:00	10.02.2018	07:00	10.02.2018	07:00	
Analyzed:	** ** **	**	** ** **	**	10.02.2018	15:54	10.02.2018	16:13	10.02.2018	16:32	
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
	1340	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	66.2	15.0	
	39.5	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	25.2	15.0	
	1380	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	91.4	15.0	
	campled: cam	Campled: 09.28.2018 Campled: 10.05.2018 10.06.2018 10.06.2018 mg/kg <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200	Complete	Complete	Complet Comp	Complet Comp	Compled: 09.28.2018 13:00 09.28.2018 13:15 09.28.2018 13:20	Compled: 09.28.2018 13:00 09.28.2018 13:15 09.28.2018 13:20 09.28.2018	Contacted: 10.05.2018 13:00 09.28.2018 13:15 09.28.2018 13:20 09.28.2018 13:30	Ampled: 09.28.2018 13:00 09.28.2018 13:15 09.28.2018 13:20 09.28.2018 13:30 09.28.2018	Composition Composition

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer



Analytical Report 600816

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Pinnacle 36-32H

06.08.2021

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



06.08.2021

Project Manager: Adrian Baker

LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 600816

Pinnacle 36-32H

Project Address: NM, Eddy 2RP-4058

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 600816. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 600816 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 600816

LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09.28.2018 13:00	Surface	600816-001
SS03	S	09.28.2018 13:15	4 In	600816-002
SS04	S	09.28.2018 13:20	6 In	600816-003
SS02	S	09.28.2018 13:30	4 In	600816-004
SS05	S	09.28.2018 13:35	Surface In	600816-005

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Pinnacle 36-32H

Project ID: Report Date: 06.08.2021 Work Order Number(s): 600816 Date Received: 09.29.2018

Sample receipt non conformances and comments:

Revision 06/08/2021 - Corrected project name per client email

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3065658 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3065825 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 600816

LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS01** Matrix: Soil Date Received:09.29.2018 09:00

Lab Sample Id: 600816-001

Date Collected: 09.28.2018 13:00

Sample Depth: Surface

Prep Method: E300P

Analytical Method: Inorganic Anions by EPA 300

SCM Tech:

Analyst:

SCM

Date Prep: 10.03.2018 09:00

% Moisture:

Basis:

Wet Weight

Seq Number: 3065322

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 1030 10.03.2018 15:02 5.03 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech:

ARM

Analyst: ARM Seq Number: 3065180 Date Prep: 10.03.2018 07:50 % Moisture:

Prep Method: TX1005P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.03.2018 00:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	1340	15.0	mg/kg	10.03.2018 00:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	39.5	15.0	mg/kg	10.03.2018 00:16		1
Total TPH	PHC635	1380	15.0	mg/kg	10.03.2018 00:16		1

Analytical Method: BTEX by EPA 8021B

Tech:

ALJ

Seq Number: 3065658

Analyst:

ALJ

Date Prep:

10.05.2018 16:45

Prep Method: SW5030B

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	10.06.2018 12:42	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	10.06.2018 12:42	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	10.06.2018 12:42	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	mg/kg	10.06.2018 12:42	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	10.06.2018 12:42	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	10.06.2018 12:42	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	10.06.2018 12:42	U	1

Certificate of Analytical Results 600816

LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS03** Matrix: Soil Date Received:09.29.2018 09:00

Lab Sample Id: 600816-002

Date Collected: 09.28.2018 13:15

Sample Depth: 4 In

Prep Method: E300P

Prep Method: TX1005P

Analytical Method: Inorganic Anions by EPA 300

SCM Tech:

Analyst:

SCM

Date Prep: 10.03.2018 09:00 % Moisture:

Basis:

Wet Weight

Seq Number: 3065322

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5050	50.0	mg/kg	10.03.2018 15:07		10

Analytical Method: TPH by SW8015 Mod

Tech:

ARM

Analyst: ARM Seq Number: 3065180 Date Prep:

% Moisture: 10.03.2018 07:50

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.03.2018 00:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.03.2018 00:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	10.03.2018 00:35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.03.2018 00:35	U	1

Analytical Method: BTEX by EPA 8021B

Tech:

ALJ

Analyst:

ALJ Seq Number: 3065658

Date Prep:

10.05.2018 16:45

% Moisture:

Basis: Wet Weight

Prep Method: SW5030B

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	10.06.2018 13:03	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	10.06.2018 13:03	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	10.06.2018 13:03	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	mg/kg	10.06.2018 13:03	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	10.06.2018 13:03	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	10.06.2018 13:03	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	10.06.2018 13:03	U	1

Certificate of Analytical Results 600816

LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: SS04

Matrix: Soil

Date Received:09.29.2018 09:00

Lab Sample Id: 600816-003

Date Collected: 09.28.2018 13:20

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

Analyst:

SCM

SCM

Date Prep: 10.03.2018 09:00

% Moisture:

Basis:

Wet Weight

Seq Number: 3065322

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 5510
 50.0
 mg/kg
 10.03.2018 15:24
 10

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

Analyst: ARM Seq Number: 3065179 Date Prep: 10.02.2018 07:00

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.02.2018 15:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.02.2018 15:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	10.02.2018 15:54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.02.2018 15:54	U	1

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

Seq Number: 3065658

Analyst:

ALJ

Date Prep:

10.05.2018 16:45

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201	mg/kg	10.06.2018 13:24	U	1
Toluene	108-88-3	< 0.00201	0.00201	mg/kg	10.06.2018 13:24	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	mg/kg	10.06.2018 13:24	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	mg/kg	10.06.2018 13:24	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	mg/kg	10.06.2018 13:24	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201	mg/kg	10.06.2018 13:24	U	1
Total BTEX		< 0.00201	0.00201	mg/kg	10.06.2018 13:24	U	1

Xenco

Certificate of Analytical Results 600816

LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS02** Matrix: Soil Date Received:09.29.2018 09:00

Lab Sample Id: 600816-004

Date Collected: 09.28.2018 13:30

Sample Depth: 4 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

SCM

SCM Analyst:

Date Prep: 10.03.2018 09:00 % Moisture:

Basis:

Wet Weight

Seq Number: 3065322

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 148 10.03.2018 15:30 4.97 mg/kg

Analytical Method: TPH by SW8015 Mod

ARM

Tech: Analyst:

Seq Number: 3065179

ARM

Date Prep:

10.02.2018 07:00

% Moisture:

Prep Method: TX1005P

Basis:

Wet Weight

Cas Number Result RLFlag **Parameter** Units **Analysis Date** Dil PHC610 15.0 U Gasoline Range Hydrocarbons (GRO) <15.0 10.02.2018 16:13 mg/kg 1 Diesel Range Organics (DRO) C10C28DRO 15.0 10.02.2018 16:13 U <15.0 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) 10.02.2018 16:13 PHCG2835 <15.0 15.0 mg/kg U 1 Total TPH PHC635 <15.0 15.0 mg/kg 10.02.2018 16:13 U

Analytical Method: BTEX by EPA 8021B

Tech:

ALJ

Analyst:

Seq Number: 3065658

ALJ

Date Prep:

10.05.2018 16:45

Prep Method: SW5030B

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	10.06.2018 13:45	U	1
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	10.06.2018 13:45	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	10.06.2018 13:45	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	10.06.2018 13:45	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	10.06.2018 13:45	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199	mg/kg	10.06.2018 13:45	U	1
Total BTEX		< 0.00199	0.00199	mg/kg	10.06.2018 13:45	U	1

LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS05** Matrix: Soil Date Received:09.29.2018 09:00

Lab Sample Id: 600816-005

Date Collected: 09.28.2018 13:35

Sample Depth: Surface In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

Analyst:

SCM

SCM

Date Prep: 10.03.2018 09:00

% Moisture:

Basis: Wet Weight

Seq Number: 3065322

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	343	5.01	mg/kg	10.03.2018 15:36		1	_

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

Analyst: ARM Seq Number: 3065179 Date Prep: 10.02.2018 07:00 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.02.2018 16:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	66.2	15.0	mg/kg	10.02.2018 16:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	25.2	15.0	mg/kg	10.02.2018 16:32		1
Total TPH	PHC635	91.4	15.0	mg/kg	10.02.2018 16:32		1

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

Seq Number: 3065825

Analyst:

ALJ

Date Prep: 10.09.2018 08:00 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	10.09.2018 15:37	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	10.09.2018 15:37	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	10.09.2018 15:37	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	mg/kg	10.09.2018 15:37	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	10.09.2018 15:37	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	10.09.2018 15:37	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	10.09.2018 15:37	U	1



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

Flag

Flag

10.03.2018 13:24

mg/kg

mg/kg

Chloride

QC Summary 600816

LT Environmental, Inc.

Pinnacle 36-32H

E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method: Seg Number: 3065322 Matrix: Solid Date Prep: 10.03.2018 LCS Sample Id: 7663443-1-BKS LCSD Sample Id: 7663443-1-BSD MB Sample Id: 7663443-1-BLK LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride < 5.00 250 106 265 90-110 0 20 10.03.2018 13:07 266 106

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P Seq Number: 3065322 Matrix: Soil Date Prep: 10.03.2018 600814-007 S MS Sample Id: MSD Sample Id: 600814-007 SD Parent Sample Id: 600814-007 Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date

399

107

90-110

1

20

106

E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method: Seq Number: 3065322 Matrix: Soil Date Prep: 10.03.2018 MS Sample Id: 600814-017 S MSD Sample Id: 600814-017 SD Parent Sample Id: 600814-017 **RPD Parent** Spike MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec 20 10.03.2018 14:50 Chloride 336 248 585 100 587 101 90-110 0 mg/kg

TX1005P Analytical Method: TPH by SW8015 Mod Prep Method: 3065179 Seq Number: Matrix: Solid Date Prep: 10.02.2018 MB Sample Id: 7663403-1-BLK LCS Sample Id: 7663403-1-BKS LCSD Sample Id: 7663403-1-BSD RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter**

Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 10.02.2018 08:45 947 95 94 20 < 8.001000 944 70-135 0 mg/kg 10.02.2018 08:45 Diesel Range Organics (DRO) 962 962 96 70-135 0 20 < 8.13 1000 96 mg/kg

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P Seq Number: 3065180 Matrix: Solid Date Prep: 10.03.2018 LCS Sample Id: 7663404-1-BKS LCSD Sample Id: 7663404-1-BSD MB Sample Id: 7663404-1-BLK

MB LCS LCS Limits %RPD RPD Spike LCSD LCSD Units Analysis Flag Parameter Result Amount Result %Rec Limit Date Result %Rec Gasoline Range Hydrocarbons (GRO) 1000 1010 101 70-135 20 10.02.2018 17:28 < 8.00 951 95 6 mg/kg Diesel Range Organics (DRO) < 8.13 1000 1070 107 989 99 70-135 8 20 mg/kg 10.02.2018 17:28

TX1005P Analytical Method: TPH by SW8015 Mod Prep Method: Seq Number: 3065179 Matrix: Soil Date Prep: 10.02.2018 MS Sample Id: 600814-001 S MSD Sample Id: 600814-001 SD Parent Sample Id: 600814-001

Spike MS MS Limits %RPD RPD Parent MSD MSD Units Analysis Flag **Parameter** Result Amount Result %Rec %Rec Limit Date Result 10.02.2018 09:41 Gasoline Range Hydrocarbons (GRO) 20 8.10 999 954 95 914 91 70-135 4 mg/kg 10.02.2018 09:41 70-135 Diesel Range Organics (DRO) < 8.12 999 951 95 926 93 3 20 mg/kg

Relative Percent Difference RPD = 200* | (C-E) / (C+E) |LCS/LCSD Recovery [D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample) Log Difference

[D] = 100*(C-A) / B

133

248

395

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

MS/MSD Percent Recovery

Flag

Flag

Parent Sample Id:

QC Summary 600816

LT Environmental, Inc.

Pinnacle 36-32H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3065180

3065180 Matrix: Soil 600815-001 MS Sample Id: 600815-001 S Prep Method: TX1005P

Date Prep: 10.03.2018

MSD Sample Id: 600815-001 SD

MS RPD **Parent** Spike MS MSD MSD Limits %RPD Units Analysis Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) 998 881 87 903 20 10.02.2018 18:24 11.1 89 70-135 2 mg/kg 10.02.2018 18:24 70-135 20 Diesel Range Organics (DRO) < 8.11 998 910 91 918 92 1 mg/kg

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number: 3065658 Matrix: Solid Date Prep: 10.05.2018

MB Sample Id: 7663733-1-BLK LCS Sample Id: 7663733-1-BSD LCSD Sample Id: 7663733-1-BSD

Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	
1 at afficter	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	
Benzene	< 0.00200	0.0998	0.116	116	0.114	114	70-130	2	35	mg/kg	10.06.2018 03:28	
Toluene	< 0.00200	0.0998	0.0994	100	0.103	103	70-130	4	35	mg/kg	10.06.2018 03:28	
Ethylbenzene	< 0.00200	0.0998	0.112	112	0.113	113	70-130	1	35	mg/kg	10.06.2018 03:28	
m,p-Xylenes	< 0.00399	0.200	0.226	113	0.233	116	70-130	3	35	mg/kg	10.06.2018 03:28	
o-Xylene	< 0.00200	0.0998	0.115	115	0.118	118	70-130	3	35	mg/kg	10.06.2018 03:28	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

 Seq Number:
 3065825
 Matrix:
 Solid
 Date Prep:
 10.09.2018

 MB Sample Id:
 7663819-1-BLK
 LCS Sample Id:
 7663819-1-BKS
 LCSD Sample Id:
 7663819-1-BSD

Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis
	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date
Benzene	< 0.00201	0.100	0.111	111	0.103	103	70-130	7	35	mg/kg	10.09.2018 08:09
Toluene	< 0.00201	0.100	0.0974	97	0.0908	91	70-130	7	35	mg/kg	10.09.2018 08:09
Ethylbenzene	< 0.00201	0.100	0.115	115	0.106	106	70-130	8	35	mg/kg	10.09.2018 08:09
m,p-Xylenes	< 0.00402	0.201	0.230	114	0.210	105	70-130	9	35	mg/kg	10.09.2018 08:09
o-Xylene	< 0.00201	0.100	0.116	116	0.106	106	70-130	9	35	mg/kg	10.09.2018 08:09

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

 Seq Number:
 3065658
 Matrix:
 Soil
 Date Prep:
 10.05.2018

 Parent Sample Id:
 600815-001
 MS Sample Id:
 600815-001 S
 MSD Sample Id:
 600815-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0994	99	0.0996	99	70-130	0	35	mg/kg	10.06.2018 04:11	
Toluene	< 0.00201	0.100	0.0851	85	0.0834	83	70-130	2	35	mg/kg	10.06.2018 04:11	
Ethylbenzene	< 0.00201	0.100	0.0921	92	0.0930	92	70-130	1	35	mg/kg	10.06.2018 04:11	
m,p-Xylenes	< 0.00402	0.201	0.185	92	0.182	90	70-130	2	35	mg/kg	10.06.2018 04:11	
o-Xylene	< 0.00201	0.100	0.0943	94	0.0934	92	70-130	1	35	mg/kg	10.06.2018 04:11	

E = MSD/LCSD Result

QC Summary 600816



LT Environmental, Inc.

Pinnacle 36-32H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3065825

Matrix: Soil

Date Prep: 10.09.2018

Parent Sample Id: 601306-001 MS Sample Id: 601306-001 S MSD Sample Id: 601306-001 SD

Parent Sample Id: 601306-001 S MSD Sample Id: 601306-001 SD

Parent Sample Id: 601306-001 S MSD Sample Id: 601306-001 SD

Parent Spike MS MS MS MSD MSD Limits %RPD RPD Units Analysis

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0742	74	0.0874	88	70-130	16	35	mg/kg	10.09.2018 08:51	
Toluene	< 0.00199	0.0996	0.0682	68	0.0783	78	70-130	14	35	mg/kg	10.09.2018 08:51	X
Ethylbenzene	< 0.00199	0.0996	0.0775	78	0.0889	89	70-130	14	35	mg/kg	10.09.2018 08:51	
m,p-Xylenes	< 0.00398	0.199	0.141	71	0.165	83	70-130	16	35	mg/kg	10.09.2018 08:51	
o-Xylene	< 0.00199	0.0996	0.0766	77	0.0887	89	70-130	15	35	mg/kg	10.09.2018 08:51	

Setting the Standard since 1990

Stafford, Texas (281-240-4200)

San Antonio, Texas (210-509-3334)	4
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Phoenix, Arizona (480-355-0900)	
7	

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After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 09/29/2018 09:00:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 600816

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.2
#2 *Shipping container in good condition	1?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping co	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinq	uished/ received?	Yes
#10 Chain of Custody agrees with samp	le labels/matrix?	Yes
#11 Container label(s) legible and intact	?	Yes
#12 Samples in proper container/ bottle?	?	Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicat	red test(s)?	Yes
#16 All samples received within hold tim	e?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero hea	dspace?	N/A
* Must be completed for after-hours de Analyst:	elivery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by: Checklist reviewed by:	Brianna Teel Jessica Warner Jessica Kramer	Date: 10/01/2018 Date: 10/01/2018

Analytical Report 601916

for

LT Environmental, Inc.

Project Manager: Adrian Baker
Pinnacle 36-32H

17-OCT-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





17-OCT-18

Project Manager: Adrian Baker LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 601916

Pinnacle 36-32H

Project Address: NM Eddy 2RP-4058

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 601916. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 601916 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 601916



LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS04	S	10-05-18 10:10	1 ft	601916-001
SS02	S	10-05-18 10:30	1 ft	601916-002
SS03	S	10-05-18 11:30	2 ft	601916-003
SS01	S	10-05-18 11:50	1 ft	601916-004
SS05	S	10-05-18 13:15	4 ft	601916-005

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Pinnacle 36-32H

Project ID: Report Date: 17-OCT-18
Work Order Number(s): 601916
Date Received: 10/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3066628 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 601916

LT Environmental, Inc., Arvada, CO

Project Name: Pinnacle 36-32H



Project Id:

Contact:

Adrian Baker

Project Location: NM Eddy 2RP-4058

Date Received in Lab: Wed Oct-10-18 10:45 am

Report Date: 17-OCT-18

Project Manager: Jessica Kramer

	Lab Id:	601916-0	001	601916-0	002	601916-0	03	601916-0	004	601916-0	005	
Analysis Requested	Field Id:	SS04		SS02		SS03		SS01		SS05		
Analysis Requesieu	Depth:	1- ft		1- ft		2- ft		1- ft		4- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL	,	
	Sampled:	Oct-05-18	10:10	Oct-05-18	10:30	Oct-05-18 1	1:30	Oct-05-18	11:50	Oct-05-18	13:15	
BTEX by EPA 8021B	Extracted:	Oct-15-18	16:45	Oct-15-18 1	6:45	Oct-15-18 1	6:45	Oct-15-18	16:45	Oct-15-18	16:45	
	Analyzed:	Oct-15-18 2	22:00	Oct-15-18 2	22:22	Oct-15-18 2	1:39	Oct-15-18	21:18	Oct-16-18 (02:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	
Toluene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	
Ethylbenzene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	
m,p-Xylenes		< 0.00404	0.00404	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00403	0.00403	< 0.00401	0.00401	
o-Xylene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	
Total Xylenes		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	
Total BTEX		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	
Inorganic Anions by EPA 300	Extracted:	Oct-15-18	10:00	Oct-15-18 1	0:00	Oct-15-18 1	0:00	Oct-15-18	10:00	Oct-15-18	10:00	
	Analyzed:	Oct-15-18 2	20:23	Oct-15-18 2	20:29	Oct-15-18 2	0:46	Oct-15-18	20:52	Oct-15-18 2	21:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		<4.95	4.95	392	4.99	1310	24.9	681	5.00	818	5.02	
TPH by SW8015 Mod	Extracted:	Oct-13-18	11:00	Oct-13-18 1	1:00	Oct-13-18 1	1:00	Oct-13-18	11:00	Oct-13-18	11:00	
	Analyzed:	Oct-15-18 (02:11	Oct-15-18 (02:30	Oct-15-18 0	2:49	Oct-15-18	03:08	Oct-15-18 (03:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	19.9	15.0	28.3	15.0	<14.9	14.9	<15.0	15.0	
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	
Total TPH		<15.0	15.0	19.9	15.0	28.3	15.0	<14.9	14.9	<15.0	15.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: SS04

Matrix: Soil

Date Received:10.10.18 10.45

Lab Sample Id: 601916-001 Date Collected: 10.05.18 10.10

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep:

10.15.18 10.00

Basis:

Wet Weight

Seq Number: 3066431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	10 15 18 20 23	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM ARM

Date Prep: 10.13.18 11.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.15.18 02.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.15.18 02.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.15.18 02.11	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	10.15.18 02.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	10.15.18 02.11		
o-Terphenyl		84-15-1	94	%	70-135	10.15.18 02.11		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Soil

Sample Id:

SS04

Matrix:

Date Received:10.10.18 10.45

Lab Sample Id: 601916-001

Date Collected: 10.05.18 10.10

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst:

ALJ

10.15.18 16.45 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.15.18 22.00	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.15.18 22.00	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.15.18 22.00	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	10.15.18 22.00	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.15.18 22.00	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.15.18 22.00	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.15.18 22.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	10.15.18 22.00		
1,4-Difluorobenzene		540-36-3	93	%	70-130	10.15.18 22.00		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS02** Matrix:

Soil

Date Received:10.10.18 10.45

Lab Sample Id: 601916-002

Date Collected: 10.05.18 10.30

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: CHE

% Moisture:

CHE

Date Prep: 10.15.18 10.00 Basis:

Wet Weight

Seq Number: 3066431

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 392 10.15.18 20.29 4.99 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

10.13.18 11.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.9	15.0		mg/kg	10.15.18 02.30		1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.15.18 02.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.15.18 02.30	U	1
Total TPH	PHC635	19.9	15.0		mg/kg	10.15.18 02.30		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	10.15.18 02.30		
o-Terphenyl		84-15-1	92	%	70-135	10.15.18 02.30		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS02**

Matrix: Soil Date Received:10.10.18 10.45

Lab Sample Id: 601916-002

Date Collected: 10.05.18 10.30

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

Analyst:

ALJ ALJ

10.15.18 16.45 Date Prep:

% Moisture: Basis:

Wet Weight

Seq Number: 3066628

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.15.18 22.22	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.15.18 22.22	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.15.18 22.22	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.15.18 22.22	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.15.18 22.22	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.15.18 22.22	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.15.18 22.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	87	%	70-130	10.15.18 22.22		
4-Bromofluorobenzene		460-00-4	102	%	70-130	10.15.18 22.22		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS03** Matrix:

Soil

Date Received:10.10.18 10.45

Lab Sample Id: 601916-003

Date Collected: 10.05.18 11.30

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

Date Prep:

10.15.18 10.00

Basis:

Wet Weight

Seq Number: 3066431

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 24.9 10.15.18 20.46 5 1310 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: Analyst: ARM ARM

Date Prep:

10.13.18 11.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	28.3	15.0		mg/kg	10.15.18 02.49		1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.15.18 02.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.15.18 02.49	U	1
Total TPH	PHC635	28.3	15.0		mg/kg	10.15.18 02.49		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	10.15.18 02.49		
o-Terphenyl		84-15-1	94	%	70-135	10.15.18 02.49		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: SS03

Matrix: Soil

Date Received:10.10.18 10.45

Lab Sample Id: 601916-003

Date Collected: 10.05.18 11.30

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.15.18 16.45

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.15.18 21.39	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.15.18 21.39	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.15.18 21.39	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.15.18 21.39	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.15.18 21.39	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.15.18 21.39	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.15.18 21.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	70-130	10.15.18 21.39		
4-Bromofluorobenzene		460-00-4	97	%	70-130	10.15.18 21.39		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: SS01

Matrix:

Soil

Date Received:10.10.18 10.45

Lab Sample Id: 601916-004

Date Collected: 10.05.18 11.50

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

Analyst:

CHE

Date Prep: 10.15.18 10.00

% Moisture:

Basis:

Wet Weight

Seq Number: 3066431

1 ...

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 681
 5.00
 mg/kg
 10.15.18 20.52
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 10.13.18 11.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	10.15.18 03.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	10.15.18 03.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	10.15.18 03.08	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	10.15.18 03.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	10.15.18 03.08		
o-Terphenyl		84-15-1	95	%	70-135	10.15.18 03.08		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: SS01

Matrix:

Soil

Date Received:10.10.18 10.45

Lab Sample Id: 601916-004

Date Collected: 10.05.18 11.50

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep:

10.15.18 16.45

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.15.18 21.18	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.15.18 21.18	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.15.18 21.18	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.15.18 21.18	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.15.18 21.18	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.15.18 21.18	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.15.18 21.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	10.15.18 21.18		
1,4-Difluorobenzene		540-36-3	88	%	70-130	10.15.18 21.18		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id:

SS05

Matrix:

Soil

Date Received:10.10.18 10.45

Lab Sample Id: 601916-005

Date Collected: 10.05.18 13.15

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: CHE CHE

Date Prep:

Basis: 10.15.18 10.00

% Moisture:

Wet Weight

Seq Number: 3066431

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 818 10.15.18 21.09 5.02 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

10.13.18 11.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.15.18 03.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.15.18 03.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.15.18 03.27	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	10.15.18 03.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	10.15.18 03.27		
o-Terphenyl		84-15-1	91	%	70-135	10.15.18 03.27		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id: **SS05**

Matrix:

Date Received:10.10.18 10.45

Lab Sample Id: 601916-005

Soil Date Collected: 10.05.18 13.15

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

ALJ Analyst:

Date Prep:

10.15.18 16.45

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.16.18 02.59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.16.18 02.59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.16.18 02.59	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.16.18 02.59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.16.18 02.59	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.16.18 02.59	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.16.18 02.59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	10.16.18 02.59		
1,4-Difluorobenzene		540-36-3	96	%	70-130	10.16.18 02.59		



Flagging Criteria





- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 601916

LT Environmental, Inc.

Pinnacle 36-32H

Analytical Method: Inorganic Anions by EPA 300

3066431

Matrix: Solid

104

Prep Method: Date Prep:

E300P 10.15.18

Seq Number: MB Sample Id:

7664174-1-BLK

LCS Sample Id: 7664174-1-BKS LCSD Sample Id: 7664174-1-BSD

Parameter

MR Spike

LCS LCS Result %Rec

LCSD LCSD %Rec

Limits

%RPD RPD Limit Units 20

Analysis Flag Date

Chloride

Result Amount < 5.00 250

260

Result 251

100 90-110

4

mg/kg

mg/kg

mg/kg

10.15.18 18:58

Analytical Method: Inorganic Anions by EPA 300

3066431 Matrix: Soil Date Prep: 10.15.18

Prep Method:

E300P

Seq Number: Parent Sample Id:

601915-006

MS Sample Id: 601915-006 S MSD Sample Id:

601915-006 SD

Limits

%RPD RPD Limit Units

Parameter

Chloride

Parent Result

< 0.858

Parent

Result

392

Spike Amount

250

MS MS Result %Rec 248 99

MSD Result 249

MSD %Rec 100

0

0

90-110

20

Analysis Date

10.15.18 19:15

Flag

Analytical Method: Inorganic Anions by EPA 300

Parent Sample Id:

250

Prep Method:

E300P

Seq Number:

3066431

Matrix: Soil

601916-002 S

639

Date Prep:

10.15.18

601916-002

MS Sample Id:

MSD MSD

Limits

%RPD RPD Limit Units

MSD Sample Id: 601916-002 SD

10.15.18 20:35

Parameter

Chloride

Spike Amount

MS MS Result %Rec 639 99

LCS

Result

Result

%Rec 99 90-110 20

Analysis Flag Date

MB Sample Id:

Analytical Method: TPH by SW8015 Mod Seq Number:

3066664

7664109-1-BLK

Matrix: Solid

Flag

Prep Method:

LCSD Sample Id:

TX1005P

Date Prep: 10.13.18

7664109-1-BKS LCS Sample Id: LCS LCSD

LCSD Result

Limits %Rec

%RPD RPD Limit Units

7664109-1-BSD Analysis

Flag

Parameter Gasoline Range Hydrocarbons (GRO)

Diesel Range Organics (DRO)

1000 1000

Spike

Amount

%Rec 1040 104 1070 107

1040 1090

70-135 104 70-135

0 20 2 20

70-135

70-135

mg/kg

Date 10.14.18 19:51 10.14.18 19:51

Analysis

Surrogate 1-Chlorooctane

o-Terphenyl

MB %Rec 99 102

MB

Result

< 8.00

< 8.13

MB Flag LCS

%Rec

130

127

LCS

109 LCSD

%Rec

126

108

LCSD

Flag

Limits

mg/kg Units

%

%

MS = Matrix Spike

B = Spike Added

D = MSD/LCSD % Rec

Date 10.14.18 19:51 10.14.18 19:51

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery

Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |

[D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result



Seq Number:

Parent Sample Id:

QC Summary 601916

LT Environmental, Inc.

Pinnacle 36-32H

Analytical Method: TPH by SW8015 Mod

601915-001

3066664 Matrix: Soil

MS Sample Id: 601915-001 S

TX1005P Prep Method:

Date Prep: 10.13.18 MSD Sample Id: 601915-001 SD

Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD 1	RPD Limi	t Units	Analysis Date	Flag
13.1	999	854	84	887	87	70-135	4	20	mg/kg	10.14.18 20:49	
587	999	1610	102	1610	102	70-135	0	20	mg/kg	10.14.18 20:49	
	Result 13.1	Result Amount 13.1 999	Result Amount Result 13.1 999 854	Result Amount Result %Rec 13.1 999 854 84	Result Amount Result %Rec Result 13.1 999 854 84 887	Result Amount Result %Rec Result %Rec 13.1 999 854 84 887 87	Result Amount Result %Rec Result %Rec 13.1 999 854 84 887 87 70-135	Result Amount Result %Rec Result %Rec 13.1 999 854 84 887 87 70-135 4	Result Amount Result %Rec Result %Rec 13.1 999 854 84 887 87 70-135 4 20	Result Amount Result %Rec Result %Rec 13.1 999 854 84 887 87 70-135 4 20 mg/kg	Result Amount Result %Rec Result %Rec Date 13.1 999 854 84 887 87 70-135 4 20 mg/kg 10.14.18 20:49

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		123		70-135	%	10.14.18 20:49
o-Terphenyl	105		103		70-135	%	10.14.18 20:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3066628

Matrix: Solid

Prep Method:

SW5030B

Flag

Flag

Date Prep: 10.15.18

LCS Sample Id: 7664298-1-BKS LCSD Sample Id: 7664298-1-BSD 7664298-1-BLK MB Sample Id:

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00201	0.100	0.0925	93	0.114	113	70-130	21	35	mg/kg	10.15.18 18:49
Toluene	< 0.00201	0.100	0.0798	80	0.102	101	70-130	24	35	mg/kg	10.15.18 18:49
Ethylbenzene	< 0.00201	0.100	0.0929	93	0.108	107	70-130	15	35	mg/kg	10.15.18 18:49
m,p-Xylenes	< 0.00402	0.201	0.189	94	0.232	115	70-130	20	35	mg/kg	10.15.18 18:49
o-Xylene	< 0.00201	0.100	0.0926	93	0.120	119	70-130	26	35	mg/kg	10.15.18 18:49

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Omts	Date
1,4-Difluorobenzene	93		73		88		70-130	%	10.15.18 18:49
4-Bromofluorobenzene	98		84		112		70-130	%	10.15.18 18:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3066628

601915-005

Matrix: Soil

Date Prep:

Prep Method:

SW5030B 10.15.18

MS Sample Id: 601915-005 S MSD Sample Id: 601915-005 SD Parent Sample Id: MS Limits %RPD RPD Limit Units Parent Spike MS MSD MSD Analysis **Parameter** Result Amount %Rec Date

Result %Rec Result 10.15.18 19:32 < 0.00201 0.104 104 0.0976Benzene 0.100 98 70-130 6 35 mg/kg Toluene < 0.00201 0.1000.0883 88 0.0765 77 70-130 14 35 mg/kg 10.15.18 19:32 0.100 0.0828 70-130 10.15.18 19:32 Ethylbenzene < 0.00201 0.0954 95 83 14 35 mg/kg 0.201 10.15.18 19:32 < 0.00402 0.190 95 0.162 70-130 16 35 m,p-Xylenes 81 mg/kg 0.100 70-130 10.15.18 19:32 93 0.0798 35 o-Xylene < 0.00201 0.0925 80 15 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	87		86		70-130	%	10.15.18 19:32
4-Bromofluorobenzene	100		103		70-130	%	10.15.18 19:32

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

= MS/LCS Result E = MSD/LCSD Result

Setting the Standard since 1990

Stafford, Texas (281-240-4200)

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Midland, Texas ((432-704-5251)				
	www.xenco.com	Хепсо	Quote #	Xenco Job # (()(01010
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			80) <u>.</u>		W= Water
TX Project Location:	DDY ZRP-	,	MFU)		GW = Ground Water DW = Drinking Water
<u> </u>		TOX	8R0 1∞.c		SW = Surface water SL = Sludge OW = Ocean/See Water
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nd the control of Xenco. A minimu	un charge of \$75 will be applied to each pro	ntractors. It assigns standard terms and ject. Xenco's liability will be limited to th	conditions of service. Xenco will be cost of samples. Any samples re	e liable only/for the cost of sam sceived by Xenco but not analyz	bles and shall not assume any responsibility for any ad will be involced at \$5 per sample. These terms
	Client / Reporting information Wild St. Building Hand 13 hidded 17 content Wild St. Building Hand 18 hidded Wild St. Building Hand Wild St. Building Hand Wild St. Building Wild St	Midland, Texas (432-704-5251) Project Name/Number: Project Information	Milland, Texas (432-704-5281) Project Information The Project Information T		Milland, Texas (432-794-5251) Many death Information Many death I



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Work Order #: 601916

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 10/10/2018 10:45:00 AM

Temperature Measuring device used: R8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3.1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquished	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated to	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headspa	ace?	N/A	

#18 Water VOC samples have zero head	dspace?	N/A				
* Must be completed for after-hours de	livery of samples prior to placi	ng in the refrigerator				
Analyst:	PH Device/Lot#:					
Checklist completed by:	Hwa Lune	Date: 10/10/2018				
Checklist reviewed by:	Jessica Kramer	Date: 10/10/2018				

Analytical Report 602357

for

LT Environmental, Inc.

Project Manager: Adrian Baker
Pinnacle 36-32H

23-OCT-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





23-OCT-18

Project Manager: Adrian Baker LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 602357

Pinnacle 36-32H

Project Address: Eddy, NM 2RP-4058

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 602357. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 602357 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 602357



LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS03	S	10-11-18 12:20	4 ft	602357-001
SS01	S	10-11-18 14:25	4 ft	602357-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Pinnacle 36-32H

Project ID: Report Date: 23-OCT-18
Work Order Number(s): 602357
Date Received: 10/13/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3066898 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3067142 Inorganic Anions by EPA 300 Nitrite as N RPD was outside laboratory control limits. Samples in the analytical batch are: 602357-001

Batch: LBA-3067144 Inorganic Anions by EPA 300

Lab Sample ID 602570-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 602357-002.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 602357

LT Environmental, Inc., Arvada, CO

Project Name: Pinnacle 36-32H



Project Id: Contact:

Benzene

Adrian Baker

Lab Id:

Field Id:

Sampled:

Extracted: Analyzed:

Units/RL:

Depth:
Matrix:

602357-001

SS03

4- ft

SOIL

Oct-11-18 12:20

Oct-18-18 16:00

Oct-19-18 02:02

mg/kg

< 0.00199

RL

0.00199

Project Location: Eddy, NM 2RP-4058

Analysis Requested

BTEX by EPA 8021B

Date Received in Lab: Sat Oct-13-18 09:00 am

Report Date: 23-OCT-18 **Project Manager:** Jessica Kramer

	<0.00199 0.00199		< 0.00200	0.00200				
	< 0.00199	0.00199	< 0.00200	0.00200				
	< 0.00398	0.00398	< 0.00401	0.00401				
	< 0.00199	0.00199	< 0.00200	0.00200				
	< 0.00199	0.00199	< 0.00200	0.00200				
	< 0.00199 0.00199		< 0.00200	0.00200				
Extracted:	Oct-20-18	16:00	Oct-20-18 1	6:30				
Analyzed:	Oct-20-18 2	23:38	Oct-22-18 0	9:42				
Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		4.98	221	4.98				
Extracted:	Oct-17-18	17:00	Oct-17-18 1	7:00				
Analyzed:	Oct-18-18 (01:12	Oct-18-18 01:30					
Units/RL:	mg/kg	RL	mg/kg	RL				
	<15.0	15.0	<15.0	15.0				
	<15.0	15.0	<15.0	15.0				
	<15.0	15.0	<15.0	15.0				
	<15.0	15.0	<15.0	15.0				
	Analyzed: Units/RL: Extracted: Analyzed:	<0.00398 <0.00199 <0.00199 <0.00199 Extracted: Oct-20-18 Analyzed: Oct-20-18 Units/RL: mg/kg 73.5 Extracted: Oct-17-18 Analyzed: Oct-18-18 Units/RL: mg/kg <15.0 <15.0 <15.0	<0.00199 0.00199	County	County		Co.00199 Co.00200 Co.00200 Co.00398 Co.00401 Co.00401 Co.00199 Co.00199 Co.00200 Co.00200 Co.00199 Co.00200 Co.00200 Co.00199 Co.00200 Co.00200 Co.00199 Co.00200 Co.00200	Concept

602357-002

SS01

4- ft

SOIL Oct-11-18 14:25

Oct-18-18 16:00

Oct-19-18 02:23

mg/kg

< 0.00200

RL

0.00200

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Vramer





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Soil

Sample Id: SS03

Matrix:

Date Received:10.13.18 09.00

Lab Sample Id: 602357-001

Date Collected: 10.11.18 12.20

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep:

10.20.18 16.00

Basis:

Wet Weight

Seq Number: 3067142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	73.5	4.98	mg/kg	10.20.18 23.38		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM ARM

Date Prep: 10.17.18 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.18.18 01.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.18.18 01.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.18.18 01.12	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	10.18.18 01.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	10.18.18 01.12		
o-Terphenyl		84-15-1	95	%	70-135	10.18.18 01.12		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Soil

Sample Id: SS03

Matrix:

Date Received:10.13.18 09.00

Lab Sample Id: 602357-001

Date Collected: 10.11.18 12.20

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep:

10.18.18 16.00 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.19.18 02.02	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.19.18 02.02	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.19.18 02.02	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.19.18 02.02	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.19.18 02.02	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.19.18 02.02	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.19.18 02.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.19.18 02.02		
1,4-Difluorobenzene		540-36-3	117	%	70-130	10.19.18 02.02		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Soil

Sample Id: SS01

Matrix:

Date Received:10.13.18 09.00

Lab Sample Id: 602357-002

Date Collected: 10.11.18 14.25

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

% Moisture:

Tech: Analyst: CHE CHE

Date Prep: 10.20.18 16.30

Basis:

Wet Weight

Seq Number: 3067144

Bed Number: 3007144

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 221
 4.98
 mg/kg
 10.22.18 09.42
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 10.17.18 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	10.18.18 01.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.18.18 01.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.18.18 01.30	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	10.18.18 01.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	10.18.18 01.30		
o-Terphenyl		84-15-1	96	%	70-135	10.18.18 01.30		





LT Environmental, Inc., Arvada, CO

Pinnacle 36-32H

Soil

Sample Id: **SS01**

Matrix:

Date Received:10.13.18 09.00

Lab Sample Id: 602357-002

Date Collected: 10.11.18 14.25

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Analyst:

ALJ

% Moisture:

10.18.18 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.19.18 02.23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.19.18 02.23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.19.18 02.23	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.19.18 02.23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.19.18 02.23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.19.18 02.23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.19.18 02.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	10.19.18 02.23		
1,4-Difluorobenzene		540-36-3	109	%	70-130	10.19.18 02.23		



Flagging Criteria





- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



MR

QC Summary 602357

LT Environmental, Inc.

Pinnacle 36-32H

Analytical Method: Inorganic Anions by EPA 300 E300P Prep Method: Seq Number: 3067142 Matrix: Solid Date Prep: 10.20.18

LCS

LCS Sample Id: 7664562-1-BKS LCSD Sample Id: 7664562-1-BSD MB Sample Id: 7664562-1-BLK LCS

Spike Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result 10.20.18 21:04 Chloride < 5.00 250 269 108 264 106 90-110 2 20 mg/kg

E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method:

Seq Number: 3067144 Matrix: Solid Date Prep: 10.20.18

MB Sample Id: 7664563-1-BLK LCS Sample Id: 7664563-1-BKS LCSD Sample Id: 7664563-1-BSD

MB Spike LCS LCS %RPD RPD Limit Units LCSD LCSD Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride < 5.00 250 274 110 275 110 90-110 0 20 mg/kg 10.22.18 09:32

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

3067142 Matrix: Soil Seq Number: Date Prep: 10.20.18 MS Sample Id: 602356-006 S MSD Sample Id: 602356-006 SD 602356-006 Parent Sample Id:

Spike MS %RPD RPD Limit Units Parent MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec

Chloride 49.0 250 322 109 324 90-110 20 10.20.18 22:34 110 mg/kg

E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method: 3067142

Seq Number: Matrix: Soil Date Prep: 10.20.18 602463-003 S MSD Sample Id: MS Sample Id: 602463-003 SD Parent Sample Id: 602463-003

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec Chloride 1170 252 1380 83 1380 83 90-110 0 20 10.20.18 21:20 X mg/kg

E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method: Matrix: Soil Seq Number: 3067144 Date Prep: 10.20.18

Parent Sample Id: 602357-002 MS Sample Id: 602357-002 S MSD Sample Id: 602357-002 SD

Parent Spike MS MS Limits %RPD RPD Limit Units Analysis **MSD MSD** Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 221 249 531 124 531 124 90-110 0 20 mg/kg 10.22.18 09:48 X

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result



QC Summary 602357

LT Environmental, Inc.

Pinnacle 36-32H

MSD

Limits

MSD

105

Analytical Method: Inorganic Anions by EPA 300

3067144 Matrix: Soil

Spike

Parent

86

MS Sample Id: 602570-003 S 602570-003

MS

E300P Prep Method:

Date Prep: 10.20.18

MSD Sample Id: 602570-003 SD

%RPD RPD Limit Units Analysis Flag Date

Result Amount Result %Rec %Rec Result 90-110 10.22.18 11:02 Chloride < 0.853 249 271 109 270 108 0 20 mg/kg

MS

Analytical Method: TPH by SW8015 Mod

3066702

Matrix: Solid

Prep Method:

%

TX1005P

Seq Number:

Seq Number:

Parameter

o-Terphenyl

Parent Sample Id:

7664345-1-BLK

LCS Sample Id: 7664345-1-BKS Date Prep:

10.17.18

Flag

Flag

MB Sample Id: LCSD Sample Id: 7664345-1-BSD MB Spike LCS LCS %RPD RPD Limit Units LCSD LCSD Limits Analysis

Parameter Result Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) < 8.00 1000 1130 113 1090 109 70-135 4 20 10.17.18 20:13 mg/kg Diesel Range Organics (DRO) 1000 1140 114 1110 70-135 3 20 10.17.18 20:13 < 8.13 111 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate %Rec Flag %Rec Flag %Rec Flag Date 10.17.18 20:13 1-Chlorooctane 82 130 124 70-135 %

117

Analytical Method: TPH by SW8015 Mod

Seq Number: 3066702

Matrix: Soil

Prep Method:

70-135

TX1005P

Date Prep:

10.17.18

10.17.18 20:13

MS Sample Id: 602207-011 S MSD Sample Id: 602207-011 SD Parent Sample Id: 602207-011

MS MS %RPD RPD Limit Units Analysis Parent Spike **MSD** MSD Limits **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 997 10.17.18 21:09 < 7.98 1020 102 1010 101 70-135 1 20 mg/kg 997 1060 104 1040 70-135 2 20 10.17.18 21:09 Diesel Range Organics (DRO) 27.9 101 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 10.17.18 21:09 122 119 1-Chlorooctane 70-135 % 10.17.18 21:09 o-Terphenyl 111 106 70-135 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result

= MSD/LCSD Result

Flag

Flag

10.18.18 23:53

10.18.18 23:53



1,4-Difluorobenzene

4-Bromofluorobenzene

QC Summary 602357

LT Environmental, Inc.

Pinnacle 36-32H

116

127

70-130

70-130

%

%

Analytical Method:BTEX by EPA 8021BPrep Method:SW 5030BSeq Number:3066898Matrix:SolidDate Prep:10.18.18

MB Sample Id: 7664468-1-BLK LCS Sample Id: 7664468-1-BKS LCSD Sample Id: 7664468-1-BSD

-												
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	I
Benzene	< 0.00200	0.0998	0.120	120	0.120	120	70-130	0	35	mg/kg	10.18.18 23:53	
Toluene	< 0.00200	0.0998	0.105	105	0.108	108	70-130	3	35	mg/kg	10.18.18 23:53	
Ethylbenzene	< 0.00200	0.0998	0.114	114	0.122	122	70-130	7	35	mg/kg	10.18.18 23:53	
m,p-Xylenes	< 0.00399	0.200	0.236	118	0.247	124	70-130	5	35	mg/kg	10.18.18 23:53	
o-Xylene	< 0.00200	0.0998	0.115	115	0.121	121	70-130	5	35	mg/kg	10.18.18 23:53	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	

116

123

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW 5030B

 Seq Number:
 3066898
 Matrix:
 Soil
 Date Prep:
 10.18.18

 Parent Sample Id:
 602357-002
 MS Sample Id:
 602357-002 S
 MSD Sample Id:
 602357-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date]
Benzene	< 0.00201	0.100	0.0827	83	0.107	106	70-130	26	35	mg/kg	10.19.18 00:35	
Toluene	< 0.00201	0.100	0.0736	74	0.0872	86	70-130	17	35	mg/kg	10.19.18 00:35	
Ethylbenzene	< 0.00201	0.100	0.0883	88	0.0927	92	70-130	5	35	mg/kg	10.19.18 00:35	
m,p-Xylenes	< 0.00402	0.201	0.177	88	0.183	91	70-130	3	35	mg/kg	10.19.18 00:35	
o-Xylene	< 0.00201	0.100	0.0840	84	0.0889	88	70-130	6	35	mg/kg	10.19.18 00:35	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		123		70-130	%	10.19.18 00:35
4-Bromofluorobenzene	118		129		70-130	%	10.19.18 00:35

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(C\text{-A}) \, / \, B \\ RPD &= 200* \mid (C\text{-E}) \, / \, (C\text{+E}) \mid \\ [D] &= 100*(C) \, / \, [B] \end{split}$$

100

101

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result

Stafford, Texas (281-240-4200) Setting the Standard since 1990

Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Dallas Texas (214-902-0300)	Midland,	Midiand, Texas (432-704-5251)				
		moo.conex.www	×	(enco Quote #	Xenco Job#	2355
				Analytical information	on	Matrix Codes
Company Name / Reporting Information		Project Information		5		
TENTION POTOLITIC PEINING OF	6	Pinnaule	36-3214	0):		S = Soil/Sed/Solid
3300 NIA"St Rilling I Init 103 Middled TX	rioject	M	ZRP 40SF			GW =Ground Water DW = Drinking Water
Email: Phone No:				M		SW = Surface water
Project Contact (152) 104 - 37	,	Utruironnatal-Adrian Keec	7	4 D) 6 R i		OW =Ocean/Sea Water Wille
Samplers's Name (Market Section)	PO Number:	34818010		0		O = OII
	Collector		Number of preserved bottles	DR		A = Air
No. Field ID / Point of Collection S.	Sample	H/Zn	D4 H SO4 H	TEX PH (hbu		
	Depth Date	Time Matrix bottles E Zacet	HNO H2S0 NaOI NaH3 MEO	B'		Field Comments
1 503	4' 10/11	12:20 5 1	<u> </u>	タンショ コンシン		
2 550/	4/ 10/11	H:23 S 1	×	ベスメ		
4						
S		1				
6	1					
7	11/100					
œ		11 1 000		/		
g.						
10						
Turnaround Time (Business days)		Data Deliverable information	ation	Notes:		
Same Day TAT 5 Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw data)	aw data)		
Next Day EMERGENCY 7 Day TAT		Levei III Std QC+ Forms	TRRP Level IV			The state of the s
2 Day EMERGENCY Contract TAT		Level 3 (CLP Forms)	UST / RG -411			
3 Day EMERGENCY		TRRP Checklist				-
TAT Starts Day received by Lab, if received by 5:00 pm	ň			FED-EX/U	FED-EX / UPS: Tracking #	
Relinquished by Samples	Date Time:	Collizati (1.50 1 MM)	2 PURIER	Date Time:	Received By:	W 1/1/18/18/
Rejudadished by:	té Time:	Received By:	Relinquished By: VV	Time:	Received By:	
Relinquished by: Dat	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On ice Cop	Copler Temp. Thermo. Corr. Factor
rounce. You'd will be inable only to the cost of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors, it assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and Shall not assume any exponsibility or any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be innited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.	a valid purchase order nd the comtrol of Xenco	from client company to Xenco, its affiliates and A minimum charge of \$75 will be applied to e	l subcontractors. It assigns standard ten ach project. Xenco's liability will be limite	ns and conditions of service. Xenco will I ad to the cost of samples. Any samples n	e liable only for the cost of sample seeived by Xenco but not analyzed	s and shall not assume any responsibility for any will be invoiced at \$5 per sample. These terms



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 10/13/2018 09:00:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date: 10/15/2018

Work Order #: 602357

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments						
#1 *Temperature of cooler(s)?		.3						
#2 *Shipping container in good condition	?	Yes						
#3 *Samples received on ice?		Yes						
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A						
#5 Custody Seals intact on sample bottle	es?	N/A						
#6*Custody Seals Signed and dated?		N/A						
#7 *Chain of Custody present?		Yes						
#8 Any missing/extra samples?		No						
#9 Chain of Custody signed when relinque	uished/ received?	Yes						
#10 Chain of Custody agrees with samp	le labels/matrix?	Yes						
#11 Container label(s) legible and intact	?	Yes						
#12 Samples in proper container/ bottle?		Yes						
#13 Samples properly preserved?		Yes						
#14 Sample container(s) intact?		Yes						
#15 Sufficient sample amount for indicat	` '	Yes						
#16 All samples received within hold time	e?	Yes						
#17 Subcontract of sample(s)?		N/A						
#18 Water VOC samples have zero head	dspace?	N/A						
* Must be completed for after-hours delivery of samples prior to placing in the refrigerator								
Analyst:	PH Device/Lot#:							
Checklist completed by:	Brianna Teel	Date: 10/15/2018						
Checklist reviewed by:	lession Vermer							

Jessica Kramer

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 51006

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	51006
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Based on the laboratory data, chloride results for SS04 at 6" (0.5 ft) is 5,510 mg/kg not 148 mg/kg. Additional horizontal delineation will need to be performed south of SS04 in addition to the proposed sample locations illustrated on Figure 2.	10/6/2022
bhall	2RP-4058 closed. Refer to incident #nAB1700454394 for all future communications.	10/6/2022
bhall	Please submit a complete report through the OCD Permitting website by 12/9/2022.	10/6/2022