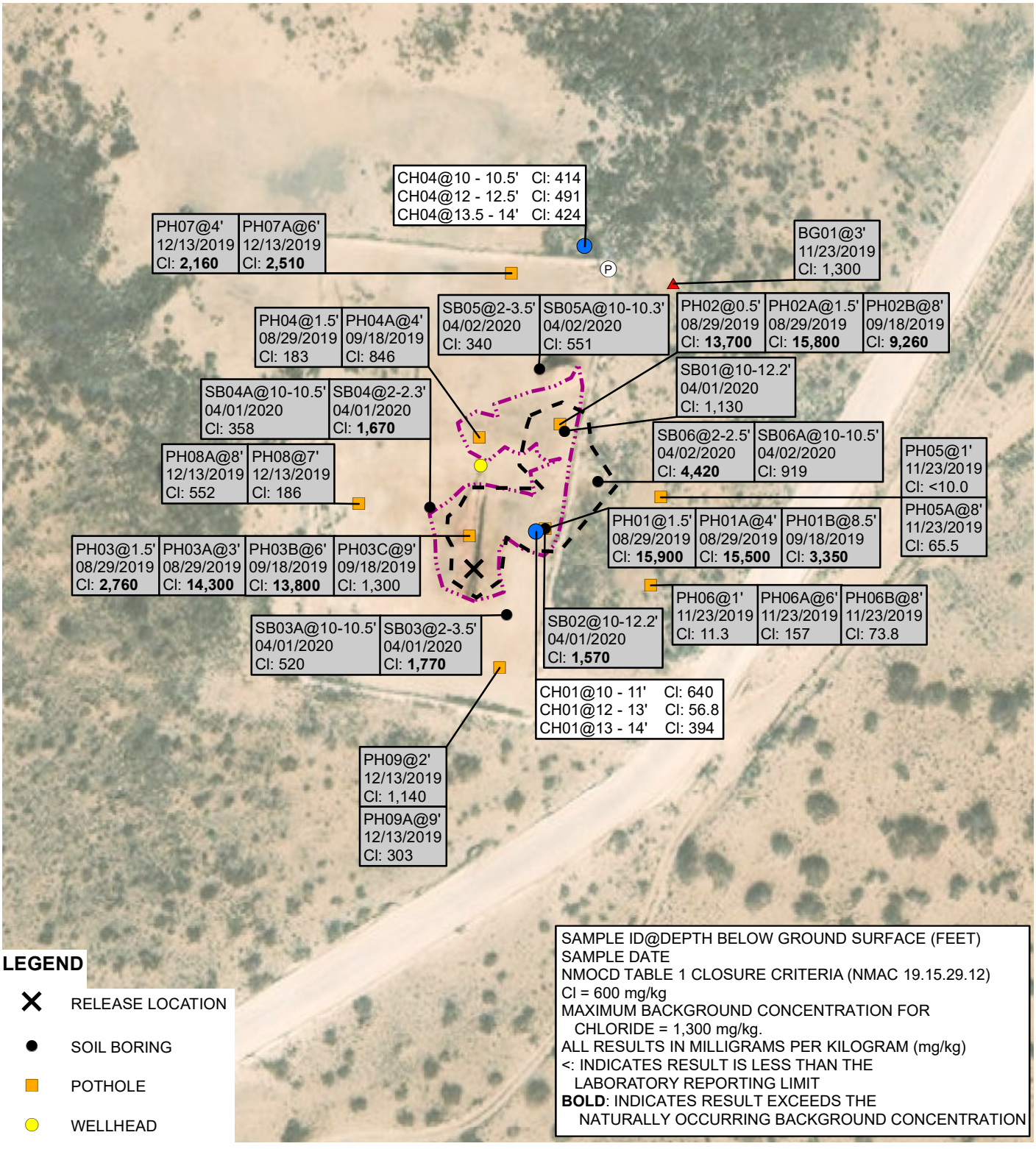

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
SWEARINGEN #001
UNIT J SEC 4 T23S R28E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

P:\WPX\GIS\MXD\034819038_SWEARINGEN #1 SWD\034819038_FIG03_DELINEATION_2020_CH.mxd

Certificate of Analysis Summary 674881

LT Environmental, Inc., Arvada, CO

Project Name: Swearingen #1 swd

Project Id: 034819038
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Mon 10.12.2020 11:45
Report Date: 10.22.2020 14:03
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	674881-001		674881-002			
	Field Id:	CH01		CH01			
	Depth:	10-11 ft		12-13 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	10.07.2020 13:25		10.07.2020 14:20			
BTEX by EPA 8021B	***Extracted:***	10.12.2020 13:55		10.12.2020 13:55			
	Analyzed:	10.12.2020 17:09		10.12.2020 17:32			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00200	0.00200		
Toluene		<0.00200	0.00200	<0.00200	0.00200		
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200		
m,p-Xylenes		<0.00399	0.00399	<0.00400	0.00400		
o-Xylene		<0.00200	0.00200	<0.00200	0.00200		
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200		
Total BTEX		<0.00200	0.00200	<0.00200	0.00200		
Inorganic Anions by EPA 300	***Extracted:***	10.12.2020 14:02		10.12.2020 14:02			
	Analyzed:	10.12.2020 18:22		10.12.2020 18:27			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		640	50.3	56.8	10.1		
TPH by SW8015 Mod	***Extracted:***	10.12.2020 17:00		10.12.2020 17:00			
	Analyzed:	** ** ** **		10.12.2020 19:28			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1		
Diesel Range Organics (DRO)		<50.3	50.3	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1		
Total TPH		<50.3	50.3	<50.1	50.1		

BRL - Below Reporting Limit

Jessica Kramer

Analytical Report 674881

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Swearingen #1 swd

034819038

10.22.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.22.2020

Project Manager: **Joseph Hernandez**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **674881**
Swearingen #1 swd
Project Address: Eddy County

Joseph Hernandez:

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) 674881. 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. 674881 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

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 674881

LT Environmental, Inc., Arvada, CO

Swearingen #1 swd

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01	S	10.07.2020 13:25	10 - 11 ft	674881-001
CH01	S	10.07.2020 14:20	12 - 13 ft	674881-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Swearingen #1 swd

Project ID: *034819038*
Work Order Number(s): *674881*

Report Date: *10.22.2020*
Date Received: *10.12.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 674881

LT Environmental, Inc., Arvada, CO

Swearingen #1 swd

Sample Id: **CH01** Matrix: Soil Date Received:10.12.2020 11:45

Lab Sample Id: 674881-001 Date Collected: 10.07.2020 13:25 Sample Depth: 10 - 11 ft

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

Tech: MAB

Analyst: MAB Date Prep: 10.12.2020 14:02 % Moisture:

Seq Number: 3139536 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**640**	50.3	mg/kg	10.12.2020 18:22		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 10.12.2020 17:00 % Moisture:

Seq Number: 3139535 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.12.2020 16:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.12.2020 16:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.12.2020 16:48	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.12.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.12.2020 16:48	
o-Terphenyl	84-15-1	95	%	70-135	10.12.2020 16:48	

Certificate of Analytical Results 674881

LT Environmental, Inc., Arvada, CO

Swearingen #1 swd

Sample Id:	**CH01**	Matrix:	Soil	Date Received:	10.12.2020 11:45
Lab Sample Id:	674881-001	Date Collected:	10.07.2020 13:25	Sample Depth:	10 - 11 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.12.2020 13:55	% Moisture:	
Seq Number:	3139520			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.12.2020 17:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.12.2020 17:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.12.2020 17:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.12.2020 17:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.12.2020 17:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.12.2020 17:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.12.2020 17:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.12.2020 17:09	
4-Bromofluorobenzene	460-00-4	86	%	70-130	10.12.2020 17:09	

Certificate of Analytical Results 674881

LT Environmental, Inc., Arvada, CO

Swearingen #1 swd

Sample Id: **CH01** Matrix: Soil Date Received:10.12.2020 11:45

Lab Sample Id: 674881-002 Date Collected: 10.07.2020 14:20 Sample Depth: 12 - 13 ft

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

Tech: MAB

Analyst: MAB Date Prep: 10.12.2020 14:02 % Moisture:

Seq Number: 3139536 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.8**	10.1	mg/kg	10.12.2020 18:27		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 10.12.2020 17:00 % Moisture:

Seq Number: 3139535 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.12.2020 19:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.12.2020 19:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.12.2020 19:28	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.12.2020 19:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	10.12.2020 19:28	
o-Terphenyl	84-15-1	95	%	70-135	10.12.2020 19:28	

Certificate of Analytical Results 674881

LT Environmental, Inc., Arvada, CO

Swearingen #1 swd

Sample Id:	**CH01**	Matrix:	Soil	Date Received:	10.12.2020 11:45
Lab Sample Id:	674881-002	Date Collected:	10.07.2020 14:20	Sample Depth:	12 - 13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.12.2020 13:55	% Moisture:	
Seq Number:	3139520			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.12.2020 17:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.12.2020 17:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.12.2020 17:32	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.12.2020 17:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.12.2020 17:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.12.2020 17:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.12.2020 17:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.12.2020 17:32	
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.12.2020 17:32	

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.

** Surrogate recovered outside laboratory control limit.

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

QC Summary 674881

LT Environmental, Inc.

Swearingen #1 swd

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139536 Matrix: Solid Date Prep: 10.12.2020
MB Sample Id: 7713095-1-BLK LCS Sample Id: 7713095-1-BKS LCSD Sample Id: 7713095-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	261	104	262	105	90-110	0	20	mg/kg	10.12.2020 17:05	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139536 Matrix: Soil Date Prep: 10.12.2020
Parent Sample Id: 674861-021 MS Sample Id: 674861-021 S MSD Sample Id: 674861-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.90	198	202	102	202	102	90-110	0	20	mg/kg	10.12.2020 17:22	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139536 Matrix: Soil Date Prep: 10.12.2020
Parent Sample Id: 674900-001 MS Sample Id: 674900-001 S MSD Sample Id: 674900-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	166	200	368	101	368	101	90-110	0	20	mg/kg	10.12.2020 18:38	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139535 Matrix: Solid Date Prep: 10.12.2020
MB Sample Id: 7713134-1-BLK LCS Sample Id: 7713134-1-BKS LCSD Sample Id: 7713134-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	844	84	848	85	70-135	0	35	mg/kg	10.12.2020 16:07	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	1010	101	70-135	1	35	mg/kg	10.12.2020 16:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		108		109		70-135	%	10.12.2020 16:07
o-Terphenyl	122		100		101		70-135	%	10.12.2020 16:07

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139535 Matrix: Solid Date Prep: 10.12.2020
MB Sample Id: 7713134-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.12.2020 15:47	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

LT Environmental, Inc.

Swearingen #1 swd

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139535 Matrix: Soil Date Prep: 10.12.2020
Parent Sample Id: 674928-001 MS Sample Id: 674928-001 S MSD Sample Id: 674928-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	872	86	846	85	70-135	3	35	mg/kg	10.12.2020 20:50	
Diesel Range Organics (DRO)	<50.3	1010	983	97	958	96	70-135	3	35	mg/kg	10.12.2020 20:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		104		70-135	%	10.12.2020 20:50
o-Terphenyl	75		72		70-135	%	10.12.2020 20:50

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139520 Matrix: Solid Date Prep: 10.12.2020
MB Sample Id: 7713099-1-BLK LCS Sample Id: 7713099-1-BKS LCSD Sample Id: 7713099-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0997	100	0.107	107	70-130	7	35	mg/kg	10.12.2020 15:06	
Toluene	<0.00200	0.100	0.0966	97	0.103	103	70-130	6	35	mg/kg	10.12.2020 15:06	
Ethylbenzene	<0.00200	0.100	0.0894	89	0.0953	95	71-129	6	35	mg/kg	10.12.2020 15:06	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.193	97	70-135	6	35	mg/kg	10.12.2020 15:06	
o-Xylene	<0.00200	0.100	0.0890	89	0.0947	95	71-133	6	35	mg/kg	10.12.2020 15:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		96		97		70-130	%	10.12.2020 15:06
4-Bromofluorobenzene	84		87		83		70-130	%	10.12.2020 15:06

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139520 Matrix: Soil Date Prep: 10.12.2020
Parent Sample Id: 674823-001 MS Sample Id: 674823-001 S MSD Sample Id: 674823-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.112	112	0.101	101	70-130	10	35	mg/kg	10.12.2020 15:51	
Toluene	<0.00200	0.0998	0.110	110	0.0975	98	70-130	12	35	mg/kg	10.12.2020 15:51	
Ethylbenzene	<0.00200	0.0998	0.102	102	0.0902	91	71-129	12	35	mg/kg	10.12.2020 15:51	
m,p-Xylenes	<0.00399	0.200	0.205	103	0.181	91	70-135	12	35	mg/kg	10.12.2020 15:51	
o-Xylene	<0.00200	0.0998	0.102	102	0.0888	89	71-133	14	35	mg/kg	10.12.2020 15:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		70-130	%	10.12.2020 15:51
4-Bromofluorobenzene	85		87		70-130	%	10.12.2020 15:51

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 674881

www.xenco.com Page 1 of 1

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RALEY
Company Name:	LT ENVIRONMENTAL	Company Name:	WPX ENERGY
Address:	3300 N A ST, BLDG 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(281) 702-2329	Email:	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	SWEARINGEN #1 SWD	Turn Around	
Project Number:	034819038	Routine ☐	
Project Location	EDDY COUNTY	Rush: 24 HR	
Sampler's Name:	ANNA BYERS	Due Date:	
PO #:	2RP-5628	Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.2/1.8	Thermometer ID	T-NM-007
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	2

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (EPA 8015 Mod)	Chloride (EPA 300.0)	Sample Comments
	CH01	S	10/7/20	1325	10-11'	1	X	X	X	
	CH01A	S	10/7/20	1420	12-13'	1	X	X	X	

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna Byers	Cole Cutler	10.12.20 11:45	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.12.2020 11.45.00 AM

Work Order #: 674881

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

Temperature Measuring device used : T_NM_007

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

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.12.2020

Checklist reviewed by: Jessica Kramer Date: 10.16.2020

Jessica Kramer

Certificate of Analysis Summary 675398

LT Environmental, Inc., Arvada, CO

Project Name: Swearingen #1 SWD

Project Id: 034819038
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Fri 10.16.2020 11:50
Report Date: 10.19.2020 13:08
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	675398-001					
	Field Id:	CH01 @ 13-14'					
	Depth:	13-14 ft					
	Matrix:	SOIL					
	Sampled:	10.07.2020 14:45					
BTEX by EPA 8021B	***Extracted:***	10.16.2020 15:08					
	Analyzed:	10.16.2020 17:19					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Inorganic Anions by EPA 300	***Extracted:***	10.16.2020 15:59					
	Analyzed:	10.17.2020 00:11					
	Units/RL:	mg/kg RL					
Chloride		394 9.98					
TPH by SW8015 Mod	***Extracted:***	10.16.2020 16:00					
	Analyzed:	10.16.2020 16:42					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8					
Diesel Range Organics (DRO)		<49.8 49.8					
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8					
Total TPH		<49.8 49.8					

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 675398

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Swearingen #1 SWD

034819038

10.19.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.19.2020

Project Manager: **Joseph Hernandez**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **675398**
Swearingen #1 SWD
Project Address: Eddy County

Joseph Hernandez:

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) 675398. 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. 675398 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

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 675398

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 @ 13-14'	S	10.07.2020 14:45	13 - 14 ft	675398-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Swearingen #1 SWD

Project ID: *034819038*
Work Order Number(s): *675398*

Report Date: *10.19.2020*
Date Received: *10.16.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 675398

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id: **CH01 @ 13-14'** Matrix: Soil Date Received:10.16.2020 11:50

Lab Sample Id: 675398-001 Date Collected: 10.07.2020 14:45 Sample Depth: 13 - 14 ft

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

Tech: MAB

Analyst: MAB Date Prep: 10.16.2020 15:59 % Moisture:

Seq Number: 3139971 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**394**	9.98	mg/kg	10.17.2020 00:11		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 10.16.2020 16:00 % Moisture:

Seq Number: 3139881 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.16.2020 16:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.16.2020 16:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.16.2020 16:42	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.16.2020 16:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	10.16.2020 16:42	
o-Terphenyl	84-15-1	88	%	70-135	10.16.2020 16:42	

Certificate of Analytical Results 675398

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id:	**CH01 @ 13-14'**	Matrix:	Soil	Date Received:	10.16.2020 11:50
Lab Sample Id:	675398-001	Date Collected:	10.07.2020 14:45	Sample Depth:	13 - 14 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 15:08	% Moisture:	
Seq Number:	3139968			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.16.2020 17:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.16.2020 17:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.16.2020 17:19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.16.2020 17:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.16.2020 17:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.16.2020 17:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.16.2020 17:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.16.2020 17:19	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.16.2020 17:19	

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.

** Surrogate recovered outside laboratory control limit.

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

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713424-1-BLK LCS Sample Id: 7713424-1-BKS LCSD Sample Id: 7713424-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	259	104	90-110	2	20	mg/kg	10.16.2020 20:07	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	686	199	899	107	894	105	90-110	1	20	mg/kg	10.16.2020 21:46	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-011 MS Sample Id: 675356-011 S MSD Sample Id: 675356-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	95.8	199	307	106	308	106	90-110	0	20	mg/kg	10.16.2020 23:18	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK LCS Sample Id: 7713398-1-BKS LCSD Sample Id: 7713398-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	750	75	859	86	70-135	14	35	mg/kg	10.16.2020 10:10	
Diesel Range Organics (DRO)	<50.0	1000	891	89	1020	102	70-135	14	35	mg/kg	10.16.2020 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		99		112		70-135	%	10.16.2020 10:10
o-Terphenyl	87		87		99		70-135	%	10.16.2020 10:10

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.16.2020 09:50	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 675398

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675349-004 MS Sample Id: 675349-004 S MSD Sample Id: 675349-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	853	85	882	88	70-135	3	35	mg/kg	10.16.2020 11:15	
Diesel Range Organics (DRO)	<50.2	1000	1030	103	1060	106	70-135	3	35	mg/kg	10.16.2020 11:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		112		70-135	%	10.16.2020 11:15
o-Terphenyl	100		98		70-135	%	10.16.2020 11:15

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713419-1-BLK LCS Sample Id: 7713419-1-BKS LCSD Sample Id: 7713419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	10.16.2020 13:44	
Toluene	<0.00200	0.100	0.0959	96	0.0979	98	70-130	2	35	mg/kg	10.16.2020 13:44	
Ethylbenzene	<0.00200	0.100	0.0998	100	0.104	104	71-129	4	35	mg/kg	10.16.2020 13:44	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.211	106	70-135	3	35	mg/kg	10.16.2020 13:44	
o-Xylene	<0.00200	0.100	0.0984	98	0.101	101	71-133	3	35	mg/kg	10.16.2020 13:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		102		70-130	%	10.16.2020 13:44
4-Bromofluorobenzene	116		113		113		70-130	%	10.16.2020 13:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.108	108	0.113	113	70-130	5	35	mg/kg	10.16.2020 14:29	
Toluene	<0.00200	0.0998	0.0998	100	0.106	106	70-130	6	35	mg/kg	10.16.2020 14:29	
Ethylbenzene	<0.00200	0.0998	0.106	106	0.112	112	71-129	6	35	mg/kg	10.16.2020 14:29	
m,p-Xylenes	<0.00399	0.200	0.214	107	0.230	116	70-135	7	35	mg/kg	10.16.2020 14:29	
o-Xylene	<0.00200	0.0998	0.106	106	0.112	112	71-133	6	35	mg/kg	10.16.2020 14:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		105		70-130	%	10.16.2020 14:29
4-Bromofluorobenzene	108		110		70-130	%	10.16.2020 14:29

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

www.xenco.com Page 1 of 1

Work Order No: 675398

Project Manager:	JOSEPH HERNANDEZ	**Bill to: (if different)**	JIM RALEY
Company Name:	LT ENVIRONMENTAL	**Company Name:**	WPX ENERGY
Address:	3300 N A ST, BLDG 1	**Address:**	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	**City, State ZIP:**	CARLSBAD, NM 88220
Phone:	281-702-2329	**Email:**	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	SWEARINGEN #1 SWD	**Turn Around**	
Project Number:	03481938	Routine ☐	
Project Location	Eddy County	Rush: 24 HR	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	2RP-5628	**Quote #:**	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	**Wet Ice:**	(Yes) No
Temperature (°C):	0.2/0.0	**Thermometer ID**	T-NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	**Correction Factor:**	-0.2
Sample Custody Seals:	Yes No N/A	**Total Containers:**	1

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Chloride (EPA 300.0)	TPH (EPA 8015 Mod)	BTEX (EPA 8021 B)	Sample Comments
	CH01@13-14'	S	10/17/20	1445	13-14'	1		X	X	X	~~HOLD~~

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna Byers	Clue Cruz	10.16.20 1150	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.16.2020 11.50.00 AM

Work Order #: 675398

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

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	0	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.16.2020

Checklist reviewed by: Jessica Kramer Date: 10.16.2020

Certificate of Analysis Summary 675391

LT Environmental, Inc., Arvada, CO

Project Name: Swearingen #1 SWD

Project Id: 034819038
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Fri 10.16.2020 11:50
Report Date: 10.19.2020 13:09
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	675391-001					
	Field Id:	CH02 @ 10-10.5'					
	Depth:	10-10.5 ft					
	Matrix:	SOIL					
	Sampled:	10.06.2020 10:15					
BTEX by EPA 8021B	***Extracted:***	10.16.2020 15:08					
	Analyzed:	10.16.2020 16:12					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Inorganic Anions by EPA 300	***Extracted:***	10.16.2020 15:59					
	Analyzed:	10.16.2020 23:38					
	Units/RL:	mg/kg RL					
Chloride		414 9.94					
TPH by SW8015 Mod	***Extracted:***	10.16.2020 14:00					
	Analyzed:	10.16.2020 15:19					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9					
Diesel Range Organics (DRO)		<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9					
Total TPH		<49.9 49.9					

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 675391

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Swearingen #1 SWD

034819038

10.19.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.19.2020

Project Manager: **Joseph Hernandez**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **675391**
Swearingen #1 SWD
Project Address: Eddy County

Joseph Hernandez:

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) 675391. 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. 675391 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

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 675391

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 10-10.5'	S	10.06.2020 10:15	10 - 10.5 ft	675391-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Swearingen #1 SWD

Project ID: *034819038*
Work Order Number(s): *675391*

Report Date: *10.19.2020*
Date Received: *10.16.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 675391

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id: **CH02 @ 10-10.5'** Matrix: Soil Date Received:10.16.2020 11:50

Lab Sample Id: 675391-001 Date Collected: 10.06.2020 10:15 Sample Depth: 10 - 10.5 ft

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

Tech: MAB

Analyst: MAB Date Prep: 10.16.2020 15:59 % Moisture:

Seq Number: 3139971 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**414**	9.94	mg/kg	10.16.2020 23:38		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 10.16.2020 14:00 % Moisture:

Seq Number: 3139881 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.16.2020 15:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.16.2020 15:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.16.2020 15:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.16.2020 15:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.16.2020 15:19	
o-Terphenyl	84-15-1	99	%	70-135	10.16.2020 15:19	

Certificate of Analytical Results 675391

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id:	**CH02 @ 10-10.5'**	Matrix:	Soil	Date Received:	10.16.2020 11:50
Lab Sample Id:	675391-001	Date Collected:	10.06.2020 10:15	Sample Depth:	10 - 10.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 15:08	% Moisture:	
Seq Number:	3139968			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.16.2020 16:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.16.2020 16:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.16.2020 16:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.16.2020 16:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.16.2020 16:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.16.2020 16:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.16.2020 16:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.16.2020 16:12	
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.16.2020 16:12	

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.

** Surrogate recovered outside laboratory control limit.

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

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713424-1-BLK LCS Sample Id: 7713424-1-BKS LCSD Sample Id: 7713424-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	259	104	90-110	2	20	mg/kg	10.16.2020 20:07	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	686	199	899	107	894	105	90-110	1	20	mg/kg	10.16.2020 21:46	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-011 MS Sample Id: 675356-011 S MSD Sample Id: 675356-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	95.8	199	307	106	308	106	90-110	0	20	mg/kg	10.16.2020 23:18	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK LCS Sample Id: 7713398-1-BKS LCSD Sample Id: 7713398-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	750	75	859	86	70-135	14	35	mg/kg	10.16.2020 10:10	
Diesel Range Organics (DRO)	<50.0	1000	891	89	1020	102	70-135	14	35	mg/kg	10.16.2020 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		99		112		70-135	%	10.16.2020 10:10
o-Terphenyl	87		87		99		70-135	%	10.16.2020 10:10

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.16.2020 09:50	

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

QC Summary 675391

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675349-004 MS Sample Id: 675349-004 S MSD Sample Id: 675349-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	853	85	882	88	70-135	3	35	mg/kg	10.16.2020 11:15	
Diesel Range Organics (DRO)	<50.2	1000	1030	103	1060	106	70-135	3	35	mg/kg	10.16.2020 11:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		112		70-135	%	10.16.2020 11:15
o-Terphenyl	100		98		70-135	%	10.16.2020 11:15

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713419-1-BLK LCS Sample Id: 7713419-1-BKS LCSD Sample Id: 7713419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	10.16.2020 13:44	
Toluene	<0.00200	0.100	0.0959	96	0.0979	98	70-130	2	35	mg/kg	10.16.2020 13:44	
Ethylbenzene	<0.00200	0.100	0.0998	100	0.104	104	71-129	4	35	mg/kg	10.16.2020 13:44	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.211	106	70-135	3	35	mg/kg	10.16.2020 13:44	
o-Xylene	<0.00200	0.100	0.0984	98	0.101	101	71-133	3	35	mg/kg	10.16.2020 13:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		102		70-130	%	10.16.2020 13:44
4-Bromofluorobenzene	116		113		113		70-130	%	10.16.2020 13:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.108	108	0.113	113	70-130	5	35	mg/kg	10.16.2020 14:29	
Toluene	<0.00200	0.0998	0.0998	100	0.106	106	70-130	6	35	mg/kg	10.16.2020 14:29	
Ethylbenzene	<0.00200	0.0998	0.106	106	0.112	112	71-129	6	35	mg/kg	10.16.2020 14:29	
m,p-Xylenes	<0.00399	0.200	0.214	107	0.230	116	70-135	7	35	mg/kg	10.16.2020 14:29	
o-Xylene	<0.00200	0.0998	0.106	106	0.112	112	71-133	6	35	mg/kg	10.16.2020 14:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		105		70-130	%	10.16.2020 14:29
4-Bromofluorobenzene	108		110		70-130	%	10.16.2020 14:29

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 675391

www.xenco.com Page 1 of 1

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RALEY
Company Name:	LT ENVIRONMENTAL	Company Name:	WPX ENERGY
Address:	3300 N A ST, BLDG 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	281-702-2329	Email:	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	SWEARINGEN #1 SWD	Turn Around	
Project Number:	03481938	Routine ☐	
Project Location	Eddy County	Rush: 24 HR	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	2RP-5628	Quote #:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	0.2/0.0	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Chloride (EPA 300.0)	TPH (EPA 8015 Mod)	BTEX (EPA 8021B)
	CH02 @ 10 - 10.5'	S	10/6/20	1015	10-10.5'	1		X	X	X

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

~~HOLD~~ OK

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna Byers		10/16/20 1150	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.16.2020 11.50.00 AM

Work Order #: 675391

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

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	0	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.16.2020

Checklist reviewed by: Jessica Kramer Date: 10.16.2020

Certificate of Analysis Summary 675396

LT Environmental, Inc., Arvada, CO

Project Name: Swearingen #1 SWD

Project Id: 034819038
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Fri 10.16.2020 11:50
Report Date: 10.19.2020 13:05
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	675396-001					
	Field Id:	CH02 @ 12- 12.5'					
	Depth:	12-12.5 ft					
	Matrix:	SOIL					
	Sampled:	10.06.2020 11:05					
BTEX by EPA 8021B	***Extracted:***	10.16.2020 15:08					
	Analyzed:	10.16.2020 16:57					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00401 0.00401					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Inorganic Anions by EPA 300	***Extracted:***	10.16.2020 15:59					
	Analyzed:	10.17.2020 00:04					
	Units/RL:	mg/kg RL					
Chloride		491 9.98					
TPH by SW8015 Mod	***Extracted:***	10.16.2020 14:00					
	Analyzed:	10.16.2020 15:59					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1					
Diesel Range Organics (DRO)		<50.1 50.1					
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1					
Total TPH		<50.1 50.1					

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 675396

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Swearingen #1 SWD

034819038

10.19.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.19.2020

Project Manager: **Joseph Hernandez**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **675396**
Swearingen #1 SWD
Project Address: Eddy County

Joseph Hernandez:

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) 675396. 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. 675396 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

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 675396

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 12- 12.5'	S	10.06.2020 11:05	12 - 12.5 ft	675396-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Swearingen #1 SWD

Project ID: *034819038*
Work Order Number(s): *675396*

Report Date: *10.19.2020*
Date Received: *10.16.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 675396

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id: **CH02 @ 12- 12.5'** Matrix: Soil Date Received:10.16.2020 11:50

Lab Sample Id: 675396-001 Date Collected: 10.06.2020 11:05 Sample Depth: 12 - 12.5 ft

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

Tech: MAB

Analyst: MAB Date Prep: 10.16.2020 15:59 % Moisture:

Seq Number: 3139971 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**491**	9.98	mg/kg	10.17.2020 00:04		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 10.16.2020 14:00 % Moisture:

Seq Number: 3139881 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.16.2020 15:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.16.2020 15:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.16.2020 15:59	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.16.2020 15:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.16.2020 15:59	
o-Terphenyl	84-15-1	101	%	70-135	10.16.2020 15:59	

Certificate of Analytical Results 675396

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id:	**CH02 @ 12- 12.5'**	Matrix:	Soil	Date Received:	10.16.2020 11:50
Lab Sample Id:	675396-001	Date Collected:	10.06.2020 11:05	Sample Depth:	12 - 12.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 15:08	% Moisture:	
Seq Number:	3139968			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.16.2020 16:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.16.2020 16:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.16.2020 16:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.16.2020 16:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.16.2020 16:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.16.2020 16:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.16.2020 16:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.16.2020 16:57	
4-Bromofluorobenzene	460-00-4	119	%	70-130	10.16.2020 16:57	

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.

** Surrogate recovered outside laboratory control limit.

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

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713424-1-BLK LCS Sample Id: 7713424-1-BKS LCSD Sample Id: 7713424-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	259	104	90-110	2	20	mg/kg	10.16.2020 20:07	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	686	199	899	107	894	105	90-110	1	20	mg/kg	10.16.2020 21:46	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-011 MS Sample Id: 675356-011 S MSD Sample Id: 675356-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	95.8	199	307	106	308	106	90-110	0	20	mg/kg	10.16.2020 23:18	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK LCS Sample Id: 7713398-1-BKS LCSD Sample Id: 7713398-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	750	75	859	86	70-135	14	35	mg/kg	10.16.2020 10:10	
Diesel Range Organics (DRO)	<50.0	1000	891	89	1020	102	70-135	14	35	mg/kg	10.16.2020 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		99		112		70-135	%	10.16.2020 10:10
o-Terphenyl	87		87		99		70-135	%	10.16.2020 10:10

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.16.2020 09:50	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 675396

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675349-004 MS Sample Id: 675349-004 S MSD Sample Id: 675349-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	853	85	882	88	70-135	3	35	mg/kg	10.16.2020 11:15	
Diesel Range Organics (DRO)	<50.2	1000	1030	103	1060	106	70-135	3	35	mg/kg	10.16.2020 11:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		112		70-135	%	10.16.2020 11:15
o-Terphenyl	100		98		70-135	%	10.16.2020 11:15

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713419-1-BLK LCS Sample Id: 7713419-1-BKS LCSD Sample Id: 7713419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	10.16.2020 13:44	
Toluene	<0.00200	0.100	0.0959	96	0.0979	98	70-130	2	35	mg/kg	10.16.2020 13:44	
Ethylbenzene	<0.00200	0.100	0.0998	100	0.104	104	71-129	4	35	mg/kg	10.16.2020 13:44	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.211	106	70-135	3	35	mg/kg	10.16.2020 13:44	
o-Xylene	<0.00200	0.100	0.0984	98	0.101	101	71-133	3	35	mg/kg	10.16.2020 13:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		102		70-130	%	10.16.2020 13:44
4-Bromofluorobenzene	116		113		113		70-130	%	10.16.2020 13:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.108	108	0.113	113	70-130	5	35	mg/kg	10.16.2020 14:29	
Toluene	<0.00200	0.0998	0.0998	100	0.106	106	70-130	6	35	mg/kg	10.16.2020 14:29	
Ethylbenzene	<0.00200	0.0998	0.106	106	0.112	112	71-129	6	35	mg/kg	10.16.2020 14:29	
m,p-Xylenes	<0.00399	0.200	0.214	107	0.230	116	70-135	7	35	mg/kg	10.16.2020 14:29	
o-Xylene	<0.00200	0.0998	0.106	106	0.112	112	71-133	6	35	mg/kg	10.16.2020 14:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		105		70-130	%	10.16.2020 14:29
4-Bromofluorobenzene	108		110		70-130	%	10.16.2020 14:29

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 675396

www.xenco.com Page 1 of 1

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RALEY
Company Name:	LT ENVIRONMENTAL	Company Name:	WPX ENERGY
Address:	3300 N A ST, BDLG 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	281-702-2329	Email:	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	SWEARINGEN #1 SWD	Turn Around	
Project Number:	03481938	Routine ☐	
Project Location	Eddy County	Rush: 24 HR	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	2RP-5628	Quote #:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	0.2/0.0	Thermometer ID	T-NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Chloride (EPA 300.0)	TPH (EPA 8015 Mod)	BTEX (EPA 8021B)
	CH02@ 12-12.5'	S	10/6/20	1105	12-12.5'	1		X	X	X

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

HOLD

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10.16.20 1150	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.16.2020 11.50.00 AM

Work Order #: 675396

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

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	0	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.16.2020

Checklist reviewed by: Jessica Kramer Date: 10.16.2020

Certificate of Analysis Summary 675393

LT Environmental, Inc., Arvada, CO

Project Name: Swearingen #1 SWD

Project Id: 034819038
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Fri 10.16.2020 11:50
Report Date: 10.19.2020 13:09
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	675393-001					
	Field Id:	CH02 @ 13.5-14'					
	Depth:	13.5-14 ft					
	Matrix:	SOIL					
	Sampled:	10.06.2020 12:10					
BTEX by EPA 8021B	***Extracted:***	10.16.2020 15:08					
	Analyzed:	10.16.2020 16:34					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Inorganic Anions by EPA 300	***Extracted:***	10.16.2020 15:59					
	Analyzed:	10.16.2020 23:58					
	Units/RL:	mg/kg RL					
Chloride		424 9.94					
TPH by SW8015 Mod	***Extracted:***	10.16.2020 14:00					
	Analyzed:	10.16.2020 15:39					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1					
Diesel Range Organics (DRO)		<50.1 50.1					
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1					
Total TPH		<50.1 50.1					

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 675393

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Swearingen #1 SWD

034819038

10.19.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.19.2020

Project Manager: **Joseph Hernandez**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **675393**
Swearingen #1 SWD
Project Address: Eddy County

Joseph Hernandez:

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) 675393. 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.

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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

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 675393

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 13.5-14'	S	10.06.2020 12:10	13.5 - 14 ft	675393-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Swearingen #1 SWD

Project ID: *034819038*
Work Order Number(s): *675393*

Report Date: *10.19.2020*
Date Received: *10.16.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 675393

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id: **CH02 @ 13.5-14'** Matrix: Soil Date Received:10.16.2020 11:50

Lab Sample Id: 675393-001 Date Collected: 10.06.2020 12:10 Sample Depth: 13.5 - 14 ft

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

Tech: MAB

Analyst: MAB Date Prep: 10.16.2020 15:59 % Moisture:

Seq Number: 3139971 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**424**	9.94	mg/kg	10.16.2020 23:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 10.16.2020 14:00 % Moisture:

Seq Number: 3139881 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.16.2020 15:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.16.2020 15:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.16.2020 15:39	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.16.2020 15:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.16.2020 15:39	
o-Terphenyl	84-15-1	102	%	70-135	10.16.2020 15:39	

Certificate of Analytical Results 675393

LT Environmental, Inc., Arvada, CO

Swearingen #1 SWD

Sample Id:	**CH02 @ 13.5-14'**	Matrix:	Soil	Date Received:	10.16.2020 11:50
Lab Sample Id:	675393-001	Date Collected:	10.06.2020 12:10	Sample Depth:	13.5 - 14 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 15:08	% Moisture:	
Seq Number:	3139968			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.16.2020 16:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.16.2020 16:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.16.2020 16:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.16.2020 16:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.16.2020 16:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.16.2020 16:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.16.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.16.2020 16:34	
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.16.2020 16:34	

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.

** Surrogate recovered outside laboratory control limit.

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

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713424-1-BLK LCS Sample Id: 7713424-1-BKS LCSD Sample Id: 7713424-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	259	104	90-110	2	20	mg/kg	10.16.2020 20:07	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	686	199	899	107	894	105	90-110	1	20	mg/kg	10.16.2020 21:46	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3139971 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-011 MS Sample Id: 675356-011 S MSD Sample Id: 675356-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	95.8	199	307	106	308	106	90-110	0	20	mg/kg	10.16.2020 23:18	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK LCS Sample Id: 7713398-1-BKS LCSD Sample Id: 7713398-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	750	75	859	86	70-135	14	35	mg/kg	10.16.2020 10:10	
Diesel Range Organics (DRO)	<50.0	1000	891	89	1020	102	70-135	14	35	mg/kg	10.16.2020 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		99		112		70-135	%	10.16.2020 10:10
o-Terphenyl	87		87		99		70-135	%	10.16.2020 10:10

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.16.2020 09:50	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 675393

LT Environmental, Inc.

Swearingen #1 SWD

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139881 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675349-004 MS Sample Id: 675349-004 S MSD Sample Id: 675349-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	853	85	882	88	70-135	3	35	mg/kg	10.16.2020 11:15	
Diesel Range Organics (DRO)	<50.2	1000	1030	103	1060	106	70-135	3	35	mg/kg	10.16.2020 11:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		112		70-135	%	10.16.2020 11:15
o-Terphenyl	100		98		70-135	%	10.16.2020 11:15

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Solid Date Prep: 10.16.2020
MB Sample Id: 7713419-1-BLK LCS Sample Id: 7713419-1-BKS LCSD Sample Id: 7713419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	10.16.2020 13:44	
Toluene	<0.00200	0.100	0.0959	96	0.0979	98	70-130	2	35	mg/kg	10.16.2020 13:44	
Ethylbenzene	<0.00200	0.100	0.0998	100	0.104	104	71-129	4	35	mg/kg	10.16.2020 13:44	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.211	106	70-135	3	35	mg/kg	10.16.2020 13:44	
o-Xylene	<0.00200	0.100	0.0984	98	0.101	101	71-133	3	35	mg/kg	10.16.2020 13:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		102		70-130	%	10.16.2020 13:44
4-Bromofluorobenzene	116		113		113		70-130	%	10.16.2020 13:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139968 Matrix: Soil Date Prep: 10.16.2020
Parent Sample Id: 675356-001 MS Sample Id: 675356-001 S MSD Sample Id: 675356-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.108	108	0.113	113	70-130	5	35	mg/kg	10.16.2020 14:29	
Toluene	<0.00200	0.0998	0.0998	100	0.106	106	70-130	6	35	mg/kg	10.16.2020 14:29	
Ethylbenzene	<0.00200	0.0998	0.106	106	0.112	112	71-129	6	35	mg/kg	10.16.2020 14:29	
m,p-Xylenes	<0.00399	0.200	0.214	107	0.230	116	70-135	7	35	mg/kg	10.16.2020 14:29	
o-Xylene	<0.00200	0.0998	0.106	106	0.112	112	71-133	6	35	mg/kg	10.16.2020 14:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		105		70-130	%	10.16.2020 14:29
4-Bromofluorobenzene	108		110		70-130	%	10.16.2020 14:29

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 675393

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Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RALEY
Company Name:	LT ENVIRONMENTAL	Company Name:	WPX ENERGY
Address:	3300 N A ST, BLDG 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	281-702-2329	Email:	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	SWEARINGEN#1 SWD	Turn Around	
Project Number:	034819038	Routine ☐	
Project Location	Eddy County	Rush: 24 HR	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	2RP-5628	Quote #:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	0.2/0.0	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Chloride (EPA 300.0)	TPH (EPA 8015 Mod)	BTEX (EPA 8021B)
	CH02 @ 13.5-14'	S	10/6/20	1210	13.5-14'	1		X	X	X

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

HOLD

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna Byers	Cue Ortiz	10.16.20 1150	2		
3				4		
5				6		

Revised Date 022619 Rev. 2019.1

Final 1.000

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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.16.2020 11.50.00 AM

Work Order #: 675393

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

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	0	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.16.2020

Checklist reviewed by: Jessica Kramer Date: 10.16.2020