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Remediation and Closure Report

COG FEZ Recycling Site
Talon Project # 701789.013.01
*1RP-5644

Prepared For:

Select Energy Services
1502 E. Greene St
Carlsbad, NM 88220

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, NM 88210

November 4, 2019

Mr. Dylan Ross-Coss
NMOCD District 1
1625 N. French Drive
Hobbs, NM 88240

Subject: **Remediation and Closure Report**
COG FEZ Recycling Site
1RP-5644

Dear Mr. Ross-Coss,

Select Energy Services (Select Energy) contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our soil assessment and remediation activities are contained herein.

Site Information

COG FEZ is located approximately twenty-five (25) miles southwest of Eunice, New Mexico. The legal location for this release is Unit Letter O, Section 08, Township 25 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.15178 North and -103.38432 West. A site map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Berino-Cacique loamy fine sands with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Eoilian and piedmont deposits. Drainage courses in this area are well-drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 165-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is located within a low potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater **165 Feet/BGS**

- ☐ Yes ☒ No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- ☐ Yes ☒ No Within 200 feet of any lakebed, sinkhole or a playa lake
- ☐ Yes ☒ No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- ☐ Yes ☒ No Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes
- ☐ Yes ☒ No Within 1000 feet of any freshwater well or spring
- ☐ Yes ☒ No Within incorporated municipal boundaries or within a defined Municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- ☐ Yes ☒ No Within 300 feet of a wetland
- ☐ Yes ☒ No Within the area overlying a subsurface mine
- ☐ Yes ☒ No Within an unstable area
- ☐ Yes ☒ No Within a 100-year floodplain

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
>100 feet	Total Chlorides***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On July 16, 2019, 10 barrels (bbls) of oil and 10 bbls of produced water were released from a hole in the liner of an above-ground storage tank. 5 bbls of oil and 5 bbls of produced water were recovered using a vacuum truck.

Site Assessment

On August 12, 2019, an initial sampling event was carried out by another firm. Select Energy subsequently excavated the impacted area from depths ranging from 2.0 to 5.0-feet BGS.

On August 28, 2019, Talon mobilized personnel to collect post-excavation confirmation soil samples. The analytical results from this sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix V](#).

[Appendix IV](#) contains photographic documentation of the project. Initial photos of the incident were provided by CEHMM. Geo-tagged photos of Talon's sampling locations and overview photos of the completed site are included.

8-27-19 Soil Sample Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg	20,000 mg/kg
S-1	8/27/2019	1' E. Sidewall	ND	ND	ND	ND	ND	ND	73.16
		2' E. Sidewall	ND	ND	ND	ND	ND	ND	85.26
S-2	8/27/2019	1	ND	ND	ND	ND	ND	ND	675.62
		2	ND	ND	ND	ND	ND	ND	174.95
S-3	8/27/2019	1	ND	ND	ND	ND	ND	ND	135.08
		2	ND	ND	ND	ND	ND	ND	120.91
S-4	8/27/2019	1	ND	ND	ND	ND	ND	ND	597.57
		2	ND	ND	ND	ND	ND	ND	638.13
S-5	8/27/2019	1' E. Sidewall	ND	ND	ND	ND	ND	ND	213.53
		2' E. Sidewall	ND	ND	ND	ND	ND	ND	197.04
S-6	8/27/2019	1' S. Sidewall	ND	ND	ND	ND	ND	ND	176.24
		2' S. Sidewall	ND	ND	ND	ND	ND	ND	217.56
S-7	8/27/2019	1	ND	ND	ND	ND	ND	ND	248.31
		2	ND	ND	ND	ND	ND	ND	241.34
S-8	8/27/2019	4	ND	ND	ND	ND	ND	ND	194.05
		5	ND	ND	ND	ND	ND	ND	275.23
S-9	8/27/2019	3	ND	ND	ND	ND	ND	ND	2281.02
		4	ND	ND	ND	ND	ND	ND	244.23
S-10	8/27/2019	3	ND	ND	ND	ND	ND	ND	457
		4	ND	ND	ND	ND	ND	ND	310.28
S-11	8/27/2019	2	ND	ND	ND	ND	ND	ND	3154.87
		3	ND	ND	ND	ND	ND	ND	3044.35
S-12	8/27/2019	1' N. Sidewall	ND	ND	ND	ND	ND	ND	502.55
		2' N. Sidewall	ND	ND	ND	ND	ND	ND	375.82
S-13	8/27/2019	5	ND	ND	ND	ND	ND	ND	768.21
		6	ND	ND	ND	ND	ND	ND	566.04
S-14	8/27/2019	5	ND	ND	ND	ND	ND	ND	584.79
		6	ND	ND	ND	ND	ND	ND	721.29
S-15	8/27/2019	5	ND	ND	ND	ND	ND	ND	734.3
		6	ND	ND	ND	ND	ND	ND	857.45
S-16	8/27/2019	5' S. Sidewall	ND	ND	ND	ND	ND	ND	573.51
		6' S. Sidewall	ND	ND	ND	ND	ND	ND	558.17
S-17	8/27/2019	6' S. Sidewall	ND	ND	ND	ND	ND	ND	3343.83
		7' S. Sidewall	ND	ND	ND	ND	ND	ND	646.76
S-18	8/27/2019	6	ND	ND	ND	ND	ND	ND	419.61
		7	ND	ND	ND	ND	ND	ND	482.35
S-19	8/27/2019	6	ND	ND	ND	ND	ND	ND	344.32
		7	ND	ND	ND	ND	ND	ND	489
S-20	8/27/2019	4	ND	ND	ND	ND	ND	ND	314.85
		5	ND	ND	ND	ND	ND	ND	405.27
S-21	8/27/2019	6	ND	ND	ND	ND	ND	ND	410.62
		7	ND	ND	ND	ND	ND	ND	830.57
S-22	8/27/2019	6' S. Sidewall	ND	ND	ND	ND	ND	ND	481.83
		7' S. Sidewall	ND	ND	ND	ND	ND	ND	615.82
S-23	8/27/2019	3' S. Sidewall	ND	ND	ND	ND	ND	ND	444.79
		4' S. Sidewall	ND	ND	ND	ND	ND	ND	468.07
S-24	8/27/2019	3' N. Sidewall	ND	ND	ND	ND	ND	ND	377.38
		4' N. Sidewall	ND	ND	ND	ND	ND	ND	441.21
S-25	8/27/2019	5' W. Sidewall	ND	ND	ND	ND	ND	ND	468.19
		6' W. Sidewall	ND	ND	ND	ND	ND	ND	583.64
Stockpile	8/27/2019	Comp-1	ND	ND	ND	ND	ND	ND	878.55
Stockpile	8/27/2019	Comp-2	ND	ND	ND	ND	ND	ND	650.09

ND- Analyte Not Detected

Remedial Actions

- The impacted area was excavated to a depth of 2.0 to 5.0-feet BGS by Select Energy.
- Twenty-five (25) post-excavation confirmation grab soil samples were collected representing no more than 200 sq/ft per sample. Laboratory analysis indicated that all sample results were below the remediation standards of Table I of 19.15.29.12 NMAC.
- The bottom of the excavation was backfilled with topsoil previously stockpiled on-site. Composite soil samples were taken from the stockpile every 200 sq/ft. The results indicated that this material was below the standards of Table I of 19.15.29.12 NMAC and therefore acceptable.
- The backfilling activities were completed with newly obtained caliche, machine compacted and contoured to match the surrounding location.
- The contaminated material approximately 774 tons was hauled to Lea Land LLC, a NMOCD approved solid waste disposal facility.
- A Final C-141 is appended hereto in **Appendix III**.

Closure

On behalf of Select Energy Services, we respectfully request that no further actions be required at this site and that closure with regard to this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE



Chris Jones
Project Manager



David J. Adkins
District Manager

Attachments:

- Appendix I Site Map, Karst Map, TOPO Map, Locator Map
- Appendix II Soil Survey, Groundwater Data & FEMA Flood Map
- Appendix III Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Data



APPENDIX I

SITE MAP

KARST MAP

TOPO MAP

LOCATOR MAP



Drafted: 10/31/2019
1 in = 60 ft
Drafted By: JAI

Select Energy Services
COG FEZ
Lea County, NM

Figure 1 - Site Details Map

COG FEZ

Select Energy
Lea County, NM
Karst Map

176

- Legend**
- High
 - Low
 - Medium

del Hwy

COG FEZ

Google Earth

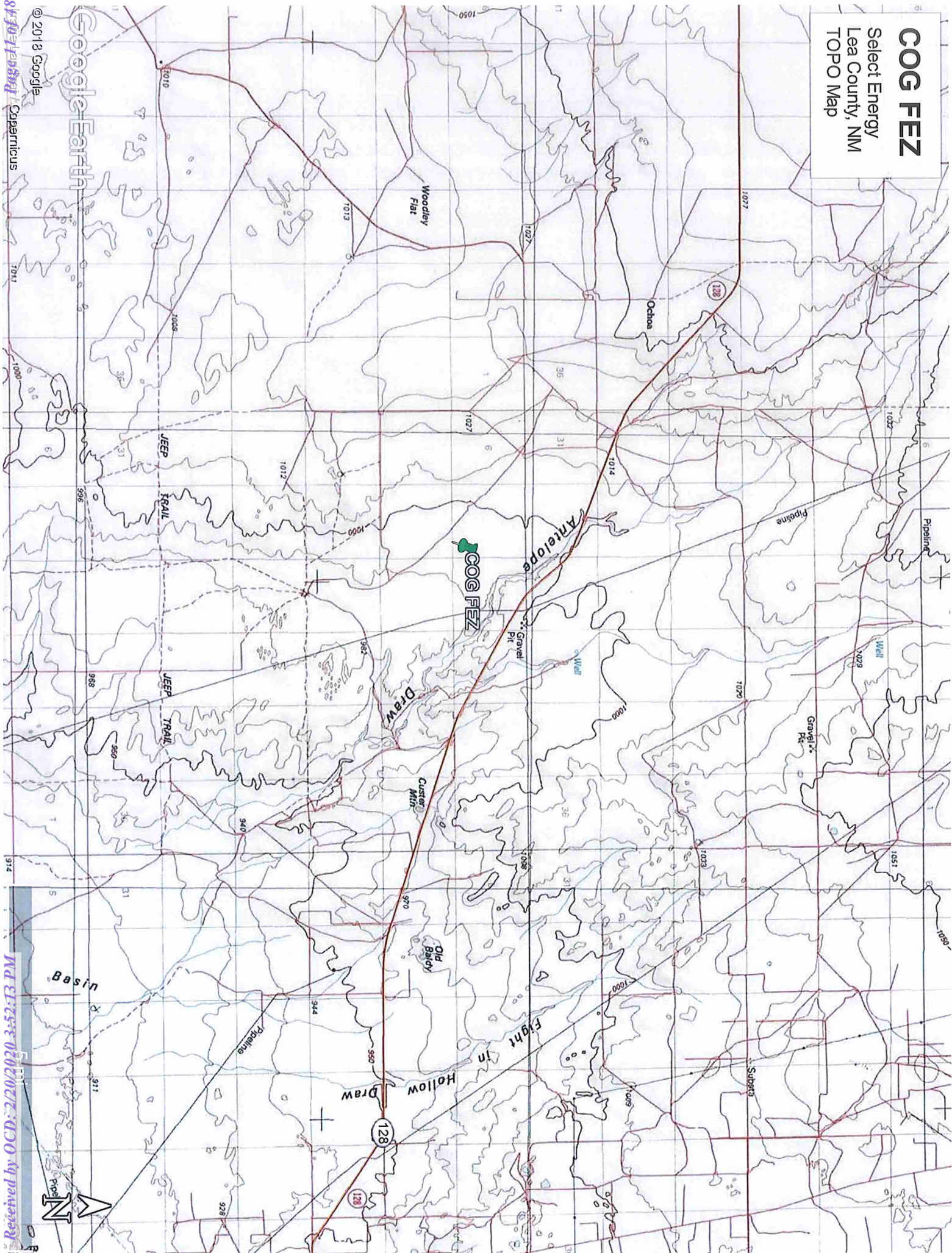


3

8/13/2013 9:58 AM

Received: 02/02/2012 10:00 AM

Select Energy
Lea County, NM
TOPO Map



Select Energy Lea County, NM Locator Map

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Received by OGD on 06-07-2020

Received by OGD: 2/20/2020 3:52:13 PM



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
C 02388		CUB	LE				3 05	25S	35E	651467	3558832*	997		180		165	15
C 02296		CUB	LE	1	3	2	18	25S	35E	650398	3556305*	2877		300		230	70

Average Depth to Water: 197 feet

Minimum Depth: 165 feet

Maximum Depth: 230 feet

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 652367.366

Northing (Y): 3558402.411

Radius: 3000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/3/19 2:45 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent
Cacique and similar soils: 40 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 6 inches: loamy fine sand
Btk - 6 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat):
 Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Moderate (about 8.7 inches)

Interpretive groups*Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7c*Hydrologic Soil Group:* B*Ecological site:* Loamy Sand (R042XC003NM)*Hydric soil rating:* No**Description of Cacique****Setting***Landform:* Plains*Landform position (three-dimensional):* Rise*Down-slope shape:* Linear*Across-slope shape:* Linear*Parent material:* Calcareous eolian deposits derived from sedimentary rock**Typical profile***A - 0 to 12 inches:* loamy fine sand*Bt - 12 to 28 inches:* sandy clay loam*Bkm - 28 to 38 inches:* cemented material**Properties and qualities***Slope:* 0 to 3 percent*Depth to restrictive feature:* 20 to 40 inches to petrocalcic*Natural drainage class:* Well drained*Runoff class:* High*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum in profile:* 5 percent*Gypsum, maximum in profile:* 1 percent*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum in profile:* 2.0*Available water storage in profile:* Low (about 3.6 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7c*Hydrologic Soil Group:* C*Ecological site:* Sandy (R042XC004NM)*Hydric soil rating:* No**Minor Components****Maljamar***Percent of map unit:* 6 percent*Ecological site:* Limy Upland 16-21" PZ (R077CY028TX)*Hydric soil rating:* No

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Palomas

Percent of map unit: 4 percent

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 15, Sep 12, 2018

National Flood Hazard Layer FIRMette

32°9'21.64"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, AE9 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
----------------------------	--

OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone 1) Future Conditions 1% Annual Chance Flood Hazard (Zone X) Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee (Zone D)
-----------------------------	--

OTHER AREAS	NO SCREEN Effective LOMRs Area of Minimal Flood Hazard (Zone X) Area of Undetermined Flood Hazard (Zone Y)
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

OTHER FEATURES	20.2 17.5 59 Coastal Transect Water Surface Elevation Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
----------------	--

MAP PANELS	Digital Data Available No Digital Data Available Unmapped
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The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/22/2019 at 11:53:13 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRFM panel number, and FIRFM effective date. Map images for unmapped and undetermined areas cannot be used for regulatory purposes.





APPENDIX III

FINAL C-141



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION



The following photos were taken at the Fez Recycling Site, reflecting conditions present during the sampling process

Figure 1 Pre-excavation, East edge of spill border



Figure 2 Pre-excavation, South-facing view of spill



Figure 3 Pre-excavation, Southwest facing view of spill



Figure 4 29-inch deep hole, South edge of spill



Figure 5 32-inch deep hole, West of Center of spill



Figure 6 Sample 668 Collection point





Photos, continued.

Figure 7 Sample 669 Collection point



Figure 8 Sample A collection point, post-excavation



Figure 9 Sample B collection point, post-excavation



Figure 10 Post excavation, Southeast facing, spill site





Below is a satellite image of the samples taken, as well as the border of the spill site.

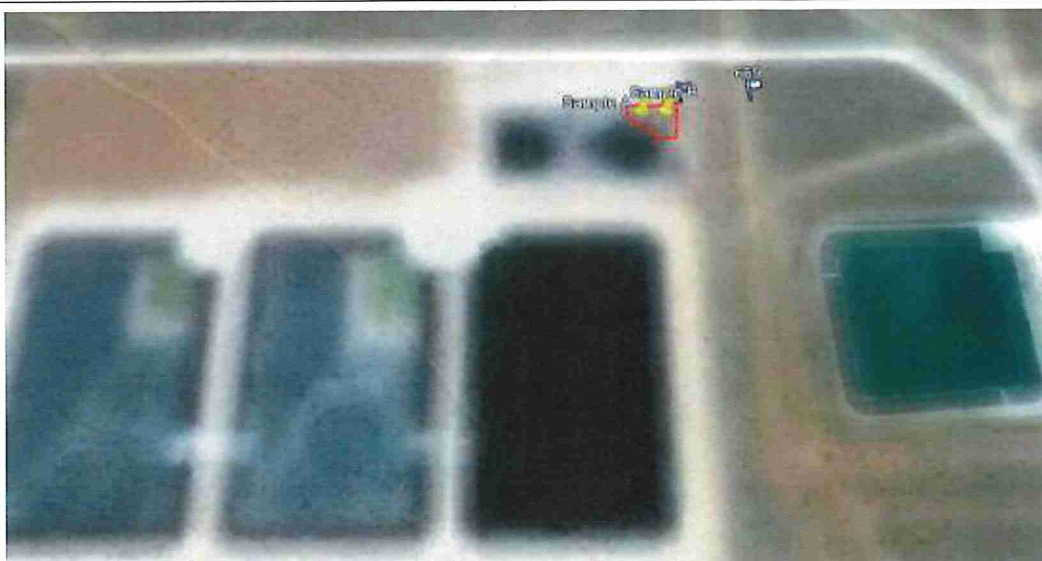


Figure 11 Satellite Image of Fez site, with sample locations and spill border outlined



Figure 12 Zoomed satellite image, indicating spill border and sample locations

GPS Sample Pictures

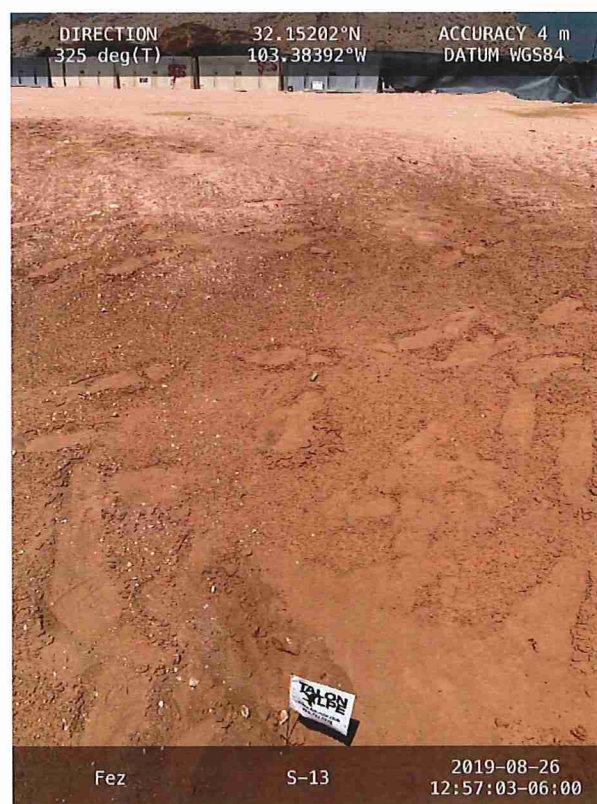








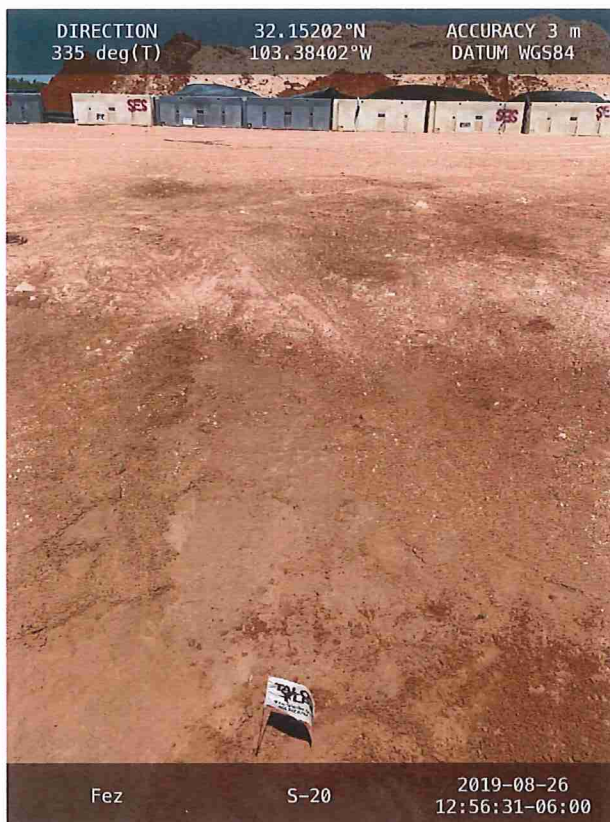


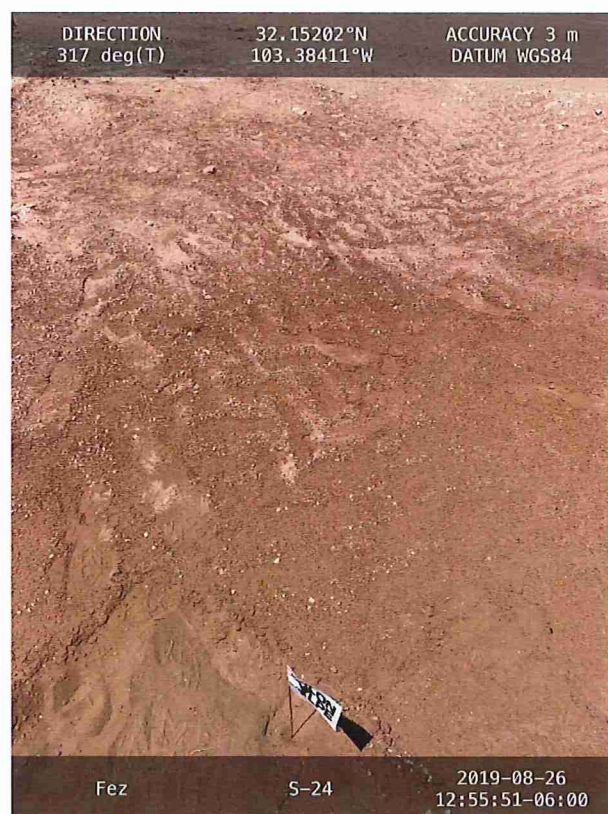
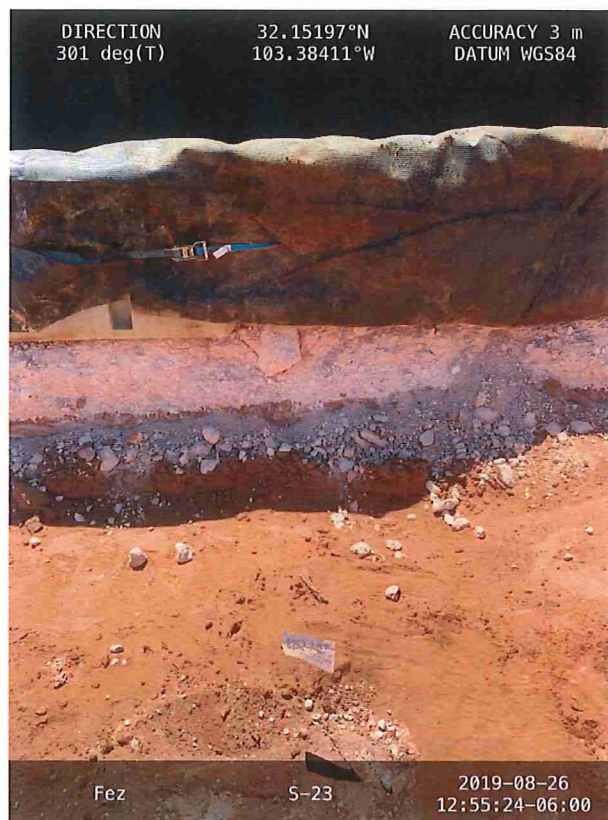


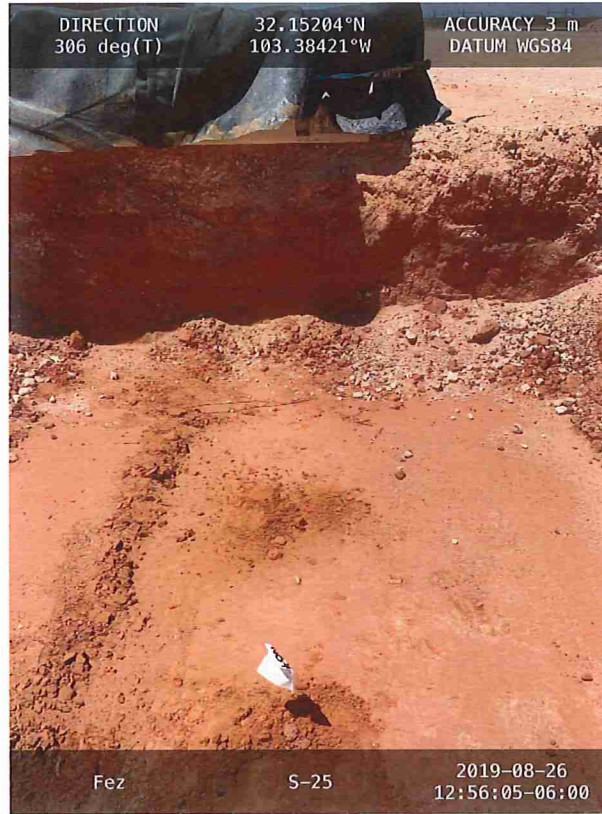












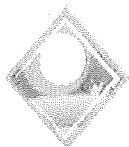
Completed Project.





APPENDIX V

LABORATORY DATA



To: Chris Jones, Michael Collier

Talon/LPE

408 W. Texas Ave

Artesia, NM 88210

Soil samples were retrieved from the Talon/LPE main office 8/28/2019 at 8:43 am for TPH analysis.

TPH soil samples were prepared for analysis through methanolic extraction and mechanical action. Soil sample extracts were analyzed using the Environmental Protection Agency's (EPA) Method 8015M for TPH analytes. Quality controls for this analysis were derived from EPA Method 8015. All samples were kept on ice during transport from the Talon/LPE office, and stored at temperatures less than 4°C at the laboratory until analysis.

The following pages contain data from the analyses performed on the samples received from Talon/LPE.



CEHMM
Conservation and Environmental Services

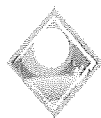
505 N. Main St, Carlsbad, NM 88220

Office: 575-885-3700

Fax: 575-885-6422

www.cephmm.org Page 2 of 3

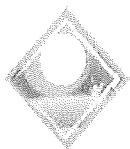
Talon/LPE Sample Label	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	Chlorides	Units
S-1 1' E. Sidewall	<2	<2	<2	<2	73.16	mg/kg
S-1 2' E. Sidewall	<2	<2	<2	<2	85.26	mg/kg
S-2 1'	<2	<2	<2	<2	675.62	mg/kg
S-2 2'	<2	<2	<2	<2	174.95	mg/kg
S-3 1'	<2	<2	<2	<2	135.08	mg/kg
S-3 2'	<2	<2	<2	<2	120.91	mg/kg
S-4 1'	<2	<2	<2	<2	597.57	mg/kg
S-4 2'	<2	<2	<2	<2	638.13	mg/kg
S-5 1' E. Sidewall	<2	<2	<2	<2	213.53	mg/kg
S-5 2' E. Sidewall	<2	<2	<2	<2	197.04	mg/kg
S-6 1' S. Sidewall	<2	<2	<2	<2	176.24	mg/kg
S-6 2' S. Sidewall	<2	<2	<2	<2	217.56	mg/kg
S-7 1'	<2	<2	<2	<2	248.31	mg/kg
S-7 2'	<2	<2	<2	<2	241.34	mg/kg
S-8 4'	<2	<2	<2	<2	194.05	mg/kg
S-8 5'	<2	<2	<2	<2	275.23	mg/kg
S-9 3'	<2	<2	<2	<2	2281.02	mg/kg
S-9 4'	<2	<2	<2	<2	244.23	mg/kg
S-10 3'	<2	<2	<2	<2	457.00	mg/kg
S-10 4'	<2	<2	<2	<2	310.28	mg/kg
S-11 2'	<2	<2	<2	<2	3154.87	mg/kg
S-11 3'	<2	<2	<2	<2	3044.35	mg/kg
S-12 1' N. Sidewall	<2	<2	<2	<2	502.55	mg/kg
S-12 2' N. Sidewall	<2	<2	<2	<2	375.82	mg/kg
S-13 5'	<2	<2	<2	<2	768.21	mg/kg
S-13 6'	<2	<2	<2	<2	566.04	mg/kg
S-14 5'	<2	<2	<2	<2	584.79	mg/kg
S-14 6'	<2	<2	<2	<2	721.29	mg/kg
S-15 5'	<2	<2	<2	<2	734.30	mg/kg
S-15 6'	<2	<2	<2	<2	857.45	mg/kg



CEHMM
Conservation and Environmental Services

505 N. Main St, Carlsbad, NM 88220
Office: 575-885-3700
Fax: 575-885-6422
www.cehmm.org Page 3 of 3

Talon/LPE Sample Name (continued)	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	CHLORIDES	UNITS
S-16 5' S. Sidewall	<2	<2	<2	<2	573.51	mg/kg
S-16 6' S. Sidewall	<2	<2	<2	<2	558.17	mg/kg
S-17 6' S. Sidewall	<2	<2	<2	<2	3343.83	mg/kg
S-17 7' S. Sidewall	<2	<2	<2	<2	646.76	mg/kg
S-18 6'	<2	<2	<2	<2	419.61	mg/kg
S-18 7'	<2	<2	<2	<2	482.35	mg/kg
S-19 6'	<2	<2	<2	<2	344.32	mg/kg
S-19 7'	<2	<2	<2	<2	489.00	mg/kg
S-20 4'	<2	<2	<2	<2	314.85	mg/kg
S-20 5'	<2	<2	<2	<2	405.27	mg/kg
S-21 6'	<2	<2	<2	<2	410.62	mg/kg
S-21 7'	<2	<2	<2	<2	830.57	mg/kg
S-22 6' S. Sidewall	<2	<2	<2	<2	481.83	mg/kg
S-22 7' S. Sidewall	<2	<2	<2	<2	615.82	mg/kg
S-23 3' S. Sidewall	<2	<2	<2	<2	444.79	mg/kg
S-23 4' S. Sidewall	<2	<2	<2	<2	468.07	mg/kg
S-24 3' N. Sidewall	<2	<2	<2	<2	377.38	mg/kg
S-24 4' N. Sidewall	<2	<2	<2	<2	441.21	mg/kg
S-25 5' W. Sidewall	<2	<2	<2	<2	468.19	mg/kg
S-25 6' W. Sidewall	<2	<2	<2	<2	583.64	mg/kg
Stockpile Comp-1	<2	<2	<2	<2	878.55	mg/kg
Stockpile Comp-2	<2	<2	<2	<2	650.09	mg/kg
Method	EPA 8260D				SM 4500 Cl B	
Internal Standard	1,4-Bromofluorobenzene					
Date Analyzed	8/28/2019				8/29/2019	
Detection Limit	2				50	mg/kg



To: Chris Jones, Michael Collier

Talon/LPE

408 W. Texas Ave

Artesia, NM 88210

Soil samples were retrieved from the Talon/LPE main office 8/28/2019 at 8:43 am for BTEX and total chloride analysis.

BTEX soil samples were prepared for analysis through methanolic extraction. Soil sample extracts were analyzed using the Environmental Protection Agency's (EPA) Method 8260D for BTEX analytes. Quality controls for this analysis were derived from EPA Method 8260D. All samples were kept on ice during transport from the Talon/LPE office, and stored at temperatures less than 4°C at the laboratory until analysis.

Samples for chloride determination were extracted through the use of distilled water and mechanical force. Extracts were then titrated using silver nitrate solution, in accordance with Standard Methods 4500-Cl B. For quality control purposes, the silver nitrate solution was standardized against a 152 ppm chloride stock solution.

The following pages contain data from the analyses performed on the samples received from Talon/LPE.



CEHMM

Conservation and Environmental Services

505 N. Main St, Carlsbad, NM 88220

Office: 575-885-3700

Fax: 575-885-6422

www.cehmm.org Page 2 of 3

Talon/LPE Sample Label	Total Petroleum Hydrocarbons	Units
S-1 1` E. Sidewall	<50	mg/kg
S-1 2` E. Sidewall	<50	mg/kg
S-2 1`	<50	mg/kg
S-2 2`	<50	mg/kg
S-3 1`	<50	mg/kg
S-3 2`	<50	mg/kg
S-4 1`	<50	mg/kg
S-4 2`	<50	mg/kg
S-5 1` E. Sidewall	<50	mg/kg
S-5 2` E. Sidewall	<50	mg/kg
S-6 1` S. Sidewall	<50	mg/kg
S-6 2` S. Sidewall	<50	mg/kg
S-7 1`	<50	mg/kg
S-7 2`	<50	mg/kg
S-8 4`	<50	mg/kg
S-8 5`	<50	mg/kg
S-9 3`	<50	mg/kg
S-9 4`	<50	mg/kg
S-10 3`	<50	mg/kg
S-10 4`	<50	mg/kg
S-11 2`	<50	mg/kg
S-11 3`	<50	mg/kg
S-12 1` N. Sidewall	<50	mg/kg
S-12 2` N. Sidewall	<50	mg/kg
S-13 5`	<50	mg/kg
S-13 6`	<50	mg/kg
S-14 5`	<50	mg/kg
S-14 6`	<50	mg/kg
S-15 5`	<50	mg/kg
S-15 6`	<50	mg/kg
S-16 5` S. Sidewall	<50	mg/kg
S-16 6` S. Sidewall	<50	mg/kg
S-17 6` S. Sidewall	<50	mg/kg
S-17 7` S. Sidewall	<50	mg/kg
S-18 6`	<50	mg/kg
S-18 7`	<50	mg/kg
S-19 6`	<50	mg/kg
S-19 7`	<50	mg/kg
S-20 4`	<50	mg/kg
S-20 5`	<50	mg/kg
S-21 6`	<50	mg/kg
S-21 7`	<50	mg/kg



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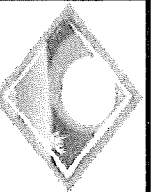
www.cehmm.org Page 3 of 3

Talon/LPE Sample Label (continued)	Total Petroleum Hydrocarbons	Units
S-22 6` S. Sidewall	<50	mg/kg
S-22 7` S. Sidewall	<50	mg/kg
S-23 3` S. Sidewall	<50	mg/kg
S-23 4` S. Sidewall	<50	mg/kg
S-24 3` N. Sidewall	<50	mg/kg
S-24 4` N. Sidewall	<50	mg/kg
S-25 5` W. Sidewall	<50	mg/kg
S-25 6` W. Sidewall	<50	mg/kg
Stockpile Comp-1	<50	mg/kg
Stockpile Comp-2	<50	mg/kg
Method		EPA 8015M
Internal Standard	1,4-Bromofluorobenzene	
Date Analyzed	8/29/2019	
Detection Limit	50 mg/kg	

Center of Excellence
505 N. Main
Carlsbad, NM 88220

Phone: 575-885-3700 Fax: 575-885-6422

Chain of Custody and BTEX Soil Analysis Request



Bill to

Lab Serial Number
(Lab Use Only)

Sample ID

Preservation

Location

Size

Container #

Date Collected

Time Collected

P.O. # 702530.001.01

Company: TALON LPE

Attn: CHRIS JONES

Address: 408 W. TEXAS AVE

City: ALBUQUERQUE

State: NM Zip: 88210

Phone #: 575-746-8748

Fax #: MICHAEL@TALONLPE.COM

Email Result: CSJONES@TALONLPE.COM

Phone Result:

Fax Result:

Relinquished by

Printed Name

Signature

Time

Date

Processor

Received by

Printed Name: DAVID FRY

Signature: [Signature]

Sample Condition

Cool ($\leq 4^{\circ}\text{C}$)

Intact

Yes ☐ No ☒

Lab Use Only

Relinquished by

Printed Name

Signature

Time

Date

Received by

Printed Name:

Signature:

Sample Condition

Cool ($\leq 4^{\circ}\text{C}$)

Intact

Yes No Yes No

Remarks:

TOTAL CHANGES } ALSO Rn!
TPA EXT.

PAGE 1 OF 5

*Faster turnaround times are made available at an additional cost. Samples must be received no later than 9:00 AM MST in order to qualify for 1 Business day turnaround.

1 Business day* Turnaround

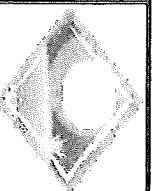
Client Signature:

Client Signature:

Center of Excellence
505 N. Main
Carlsbad, NM 88220

Phone: 575-885-3700 Fax: 575-885-6422

Chain of Custody and BTEX Soil Analysis Request



Lab Serial Number
(Lab Use Only)

Sample ID

Preservation

Location

Size

Container
#

Date
Collected

Time Collected

Bill to

P.O. # 702530.001.01

Company: TALON LPE

Attn: CHRIS JONES

Address: 408 W. TEXAS AVE

City: ALBUQUERQUE

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #:

Email Result: M. COLLIER @ TALON LPE, GPM
C3009ES @ TALON LPE.COM

Phone Result:

Fax Result:

Relinquished by

Printed Name

Signature

Time

Date

Relinquished by

Printed Name

Signature

Time

Date

Processor

Received by

Printed Name: David Fry

Sample Condition

Intact

Signature:

David Fry

Cool ($\leq 4^{\circ}\text{C}$)

Yes No

Received by

Printed Name:

Signature:

Cool ($\leq 4^{\circ}\text{C}$)

Yes No

Intact

1 Business day* Turnaround

Client Signature:

2 Business day* Turnaround

Client Signature:

*Faster turnaround times are made available at an additional cost. Samples must be received no later than 9:00 AM MST in order to qualify for 1 Business day turnaround.

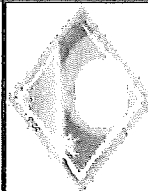
Remarks:

TOTAL CHLORIDES RUN ALSO!
TPH EXT.

Center of Excellence
505 N. Main
Carlsbad, NM 88220

Phone: 575-885-3700 Fax: 575-885-6422

Chain of Custody and BTEX Soil Analysis Request



Lab Serial Number
(Lab Use Only)

Sample ID

Preservation

Location

Size

Container
#

Date
Collected

Time Collected

Bill to

P.O. # 702530.001.01

Company: TALON LPE

Attn: CARIS JONES

Address: 4008 WITEXAS AVE

City: ARTESIA

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #:

Email Result: M COLLIER @ TALON LPE.COM
C5019ES @ TALON LPE.COM

Phone Result:

Fax Result:

Relinquished by

Printed Name

Signature

Time

Date

Relinquished by

Printed Name

Signature

Time

Date

Processor

Michael Collier

8:43 8-28-19

Sample Condition

Printed Name: David Fry

Cool ($\leq 4^{\circ}\text{C}$)

Intact

Signature:

David Fry

Yes

No

Yes

No

Lab Use Only

Received by

Printed Name:

Signature:

Sample Condition

Cool ($\leq 4^{\circ}\text{C}$)

Intact

Yes

No

Yes

No

1 Business day* Turnaround

Client Signature:

2 Business day* Turnaround

Client Signature:

*Faster turnaround times are made available at an additional cost. Samples must be received no later than 9:00 AM MST in order to qualify for 1 Business day turnaround.

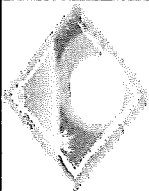
Remarks:

TOTAL CHLORIDES

TPH EXT.

RUN ALSO!


PAGE 3 OF 5

Center of Excellence 505 N. Main Carlsbad, NM 88220 Phone: 575-885-3700 Fax: 575-885-6422				Chain of Custody and BTEX Soil Analysis Request					
Lab Serial Number (Lab Use Only)	Sample ID	Preservation	Location	Size	Container #	Date Collected	Time Collected	Bill to	
	S-17 7'	ICE/COOL	FEZ	4oz	1	8/24/19	12:45pm	P.O. # 702530.001.01	
	S-18 6'		RECYCLING				12:50pm	Company: TALON LPE	
	S-18 7'						12:55pm	Attn: CARIS JONES	
	S-19 6'						1:00pm	Address: 4008 W. TEXAS AVE	
	S-19 7'						1:05pm	City: ARTESIA	
	S-20 4'						1:10pm	State: NM Zip: 88210	
	S-20 5'						1:15pm	Phone #: 575-746-8768	
	S-21 6'						1:20pm	Fax #:	
	S-21 7'						1:25pm	Email Result: MICHAEL@TALONLPE.COM	
	S-22 6' S. SIDEWALK						1:30pm	Phone Result: 250915@TALONLPE.COM	
	S-22 7' S. SIDEWALK						1:35pm	Fax Result:	

Relinquished by		Time	Date	Relinquished by		Time	Date
Printed Name	Signature			Printed Name	Signature		
Michael Coussé	[Signature]	8:43	8-28-19				
Received by		Sample Condition		Received by		Sample Condition	
Printed Name: David Fry		Cool (≤ 4°C)	Intact	Printed Name:		Cool (≤ 4°C)	Intact
Signature: [Signature]		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Signature:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

1 Business day* Turnaround	Client Signature:	Remarks: TOTAL CHANGES } ALSO RUN! TPH EXT } PAGE 4 OF 5
2 Business day* Turnaround	Client Signature:	

*Faster turnaround times are made available at an additional cost. Samples must be received no later than 9:00 AM MST in order to qualify for 1 Business day turnaround.

Center of Excellence 505 N. Main Carlsbad, NM 88220 Phone: 575-885-3700 Fax: 575-885-6422				Chain of Custody and BTEX Soil Analysis Request					
Lab Serial Number <i>(Lab Use Only)</i>	Sample ID	Preservation	Location	Size	Container #	Date Collected	Time Collected	Bill to	
	S-23 3'		FEZ	402	1	8/26/19	1:40 pm	P.O. # 702530.001.01	
	S-23 4'	ICE/COOL	RECYCLING	JRS			1:45 pm	Company: TALON LPE	
	S-24 3'						1:50 pm	Attn: CHRIS JONES	
	S-24 4'						1:55 pm	Address: MICHAEL COLLIER	
	S-25 5'						2:00 pm	City: ARTESIA	
	S-25 6'						2:05 pm	State: NM Zip: 88210	
	Stock Pile						2:10 pm	Phone #: 575-746-8768	
	Stock Pile						2:15 pm	Fax #:	
	Comp-1							MAILED @ TALON LPE, 6PM	
	Comp-2							Email Result: C2019ES@TALONLPE.COM	
								Phone Result:	
								Fax Result:	
Processor		Relinquished by		Relinquished by		Time		Date	
Printed Name	Signature	Time	Date	Printed Name	Signature	Time	Date		
Received by: MICHAEL COLLIER		8:14 3	8-28-19						
Printed Name: David Fry		Sample Condition	Intact	Received by		Sample Condition	Intact		
Signature: David Fry		Cool (≤ 4°C)	Yes (No)	Printed Name:		Cool (≤ 4°C)	Yes No	Intact	
		Yes (No)	Yes (No)	Signature:		Yes No	Yes No		
1 Business day* Turnaround	Client Signature:								
2 Business day* Turnaround	Client Signature:								
*Faster turnaround times are made available at an additional cost. Samples must be received no later than 9:00 AM MST in order to qualify for 1 Business day turnaround.		Remarks: TOTAL CHLORIDES } ALSO RUN! TPH EXT. } 5 OF 5							