**Received by OCD: 10/30/2023 9:54:23 AM** Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	nAPP2135135752
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;105</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🖌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ✓ Field data

Page 3

- Data table of soil contaminant concentration data
- $\checkmark$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- $\checkmark$  Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- ✓ Laboratory data including chain of custody

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

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Form C-141			Incident ID	nAPP2135135752		
Page 4	Oil Conservation Division	l	District RP			
			Facility ID			
			Application ID			
regulations all operators are republic health or the environm failed to adequately investigat addition, OCD acceptance of and/or regulations. Printed Name: Rob Kirk Signature: email:rob.kirk@solaris	REArly	otifications and perform co OCD does not relieve the ireat to groundwater, surfa of responsibility for compl	prrective actions for release operator of liability sho ce water, human health iance with any other fease mager, HSE & Comp	ases which may endanger ould their operations have or the environment. In leral, state, or local laws		
OCD Only			(2022			
Received by: <u>Shelly Well</u>	<u>S</u>	_ Date: <u>10/30</u>	/2023			

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Oil Conservation Division

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# Closure

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

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following to	items must be included in the closure report.
$\checkmark$ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>10/30/2023</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

# Remediation Summary & Soil Closure Request

### Solaris Water Midstream, LLC Lobo 285 SWD Water Reuse

Eddy County, New Mexico Unit Letter "A", Section 22, Township 25 South, Range 28 East Latitude 32.121830 North, Longitude 104.070718 West NMOCD Reference No. nAPP2135135752

Prepared By:

Etech Environmental & Safety Solutions, Inc. 6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Ben J. Arguijo

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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- Appendix A Depth to Groundwater Information
- Appendix B Field Data & Soil Profile Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports
- Appendix E Regulatory Correspondence

### 1.0 **PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Solaris Water Midstream, LLC (Solaris), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Lobo 285 SWD Water Reuse (henceforth, "Lobo 285 SWD"). Details of the release are summarized below:

Latitude:	32	2.121830	Longitude:		-104.070718		
			ed GPS are in WGS84 form	at.	10110/0/10		
Site Name:	Lobo 28	35 SWD Water Reuse	Site Type:	Salt	Water Disposal (SWD)		
Date Release Di	scovered:	12/16/2021	API # (if applica	able):	N/A		
Unit Letter	Section	Township	Range	County			
"A"	22	258	28E	Eddy			
urface Owner	X State	Federal Tribal	Private (Nam nd Volume of H				
Crude Oil	Volu	me Released (bbls)		Volume Re	covered (bbls)		
X         Produced Water         Volume Released (bbls)         202				Volume Recovered (bbls) 200			
		concentration of total ) in the produced water		X Yes	s No N/A		
Condensat	e Volu	me Released (bbls)		Volume Re	covered (bbls)		
Natural Ga	ıs Volu	me Released (Mcf)		Volume Re	covered (Mcf)		
Other (des	cribe) Volu	Volume/Weight Released			Volume/Weight Recovered		
	re. The produ	uced water release was ols were outside of the s	-	•	ment. Approximtely 200 bbls		
		Iı	nitial Response				
X The source	of the release	e has been stopped.					
X The impact	ed area has b	een secured to protect h	uman health and the o	environment.			
X Release ma	terials have b	been contained via the us	se of berms or dikes,	absorbent pad,	or other containment devices		
X All free lig	uids and reco	verable materials have b	een removed and ma	naged appropri	iately		

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

# 2.0 SITE CHARACTERIZATION

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Lobo 285 SWD release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on June 15, 2022, an investigative soil boring was drilled nearby in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 105 feet below ground surface (bgs) and left open for 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil bore or prior to plugging and abandonment. The location of the investigative soil bore is depicted in Figure 2. A drilling log is provided in Appendix B.

What is the shallowest depth to groundwater beneath the area affected by the release?	>105'
Did the release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles, topographic maps, NMOSE and USGS databases, and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

# 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Lobo 285 SWD are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
>105'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Subsection D.(1) of 19.15.29.13 NMAC.

### 4.0 SITE ASSESSMENT

On February 1, 2022, Etech conducted an initial site assessment. During the initial site assessment, three (3) hand-augered soil bores (V1, V2, and V3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, a series of hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, a total of 14 delineation soil samples (NH B @ 0', NH B @ 1', EH C @ 0', EH C @ 1', SH D @ 0', SH D @ 1', WH E @ 0', WH E @ 1', V1 @ 0', V1 @ 4', V2 @ 0', V2 @ 4', V3 @ 0', and V3 @ 4') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. BTEX concentrations were also below the laboratory method detection limit (MDL). TPH concentrations ranged from less than the laboratory MDL in soil samples NH B @ 0', NH B @ 1', EH C @ 0', EH C @ 1', SH D @ 0', SH D @ 1', WH E @ 1', V1 @ 0', V1 @ 4', V2 @ 0', V2 @ 4', and V3 @ 4' to 440 mg/kg in soil sample V3 @ 0'. Chloride concentrations ranged from 8.91 mg/kg in soil sample EH C @ 1' to 27,700 mg/kg in soil sample V3 @ 0', which exceeded the NMOCD Closure Criterion.

Based on laboratory analytical data, additional vertical delineation was required in the areas characterized by sample points V1, V2, and V3; and additional horizontal delineation was required in the area characterized by sample point WH E. The horizontal extent of impacted soil was adequately defined in the areas characterized by sample points NH B, EH C, and SH D. On April 15, 2022, Etech continued the site assessment. In an effort to further investigate the vertical extent of impacted soil, a backhoe was utilized to advance test trenches in the areas characterized by sample points V1 and V3 to total depths of six (6) feet and 12 feet bgs, respectively. Hand-augered soil bore V2 was re-entered and advanced to a total depth of six (6) feet bgs. An additional hand-augered soil boring (WH F) was advanced to determine the horizontal extent of impacted soil in the area characterized by sample point WH E. During the advancement of the test trenches and hand-augered soil bores, soil samples were collected and field-screened as previously described for the presence of VOCs and/or concentrations of chloride.

Based on field observations and field test data, five (5) delineation soil samples (WH F @ 0', WH F @ 1', V1 @ 6', V2 @ 6', and V3 @ 12') were submitted to the laboratory for analysis of chloride. Soil samples WH F @ 0' and WH F @ 1' were also analyzed for TPH. Laboratory analytical results indicated that TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. The TPH concentrations in soil samples WH F @ 0' and WH F @ 1' were also below the laboratory MDL. Chloride concentrations ranged from 152 mg/kg in soil sample WH F @ 1' to 9,100 mg/kg in soil sample V3 @ 12'.

Based on laboratory analytical data, the horizontal extent of impacted soil was adequately defined in the area characterized by sample point WH F. The vertical extent of impacted soil was adequately defined in the areas characterized by sample points V1 and V2 and did not extend beyond five (5) to six (6) feet bgs. However, additional vertical delineation was required in the area characterized by sample point V3.

On July 19, 2023, Etech revisited the release site. An environmental drilling rig was utilized to advance a soil boring in the area characterized by sample point V3 to further investigate the vertical extent of impacted soil. The soil boring was advanced in increments of five (5) feet to a total depth of 35 feet bgs. During the advancement of the soil boring, soil samples were collected and field-screened as previously described for the presence of VOCs and/or concentrations of chloride.

Based on field observations and field test data, two (2) delineation soil samples (BH1 @ 30' and BH1 @ 35') were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that the chloride concentrations were 272 mg/kg in soil sample BH1 @ 30' and 128 mg/kg in soil sample BH1 @ 35', which were both below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

Based on laboratory analytical data, the vertical extent of impacted soil was adequately defined in the area characterized by sample points V3 and BH1.

The locations of the soil borings and test trenches are depicted in Figure 3A, "Site & Sample Location Map (Delineation)".

### 5.0 **REMEDIATION ACTIVITIES SUMMARY**

On September 25, 2023, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On September 27, 2023, Etech collected 10 confirmation soil samples (FL #1 @ 3" through FL #5 @ 3" and FL #8 @ 3" through FL #12 @ 3") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations were below the NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL in a majority of the soil samples, with the exception of FL #2 @ 3", FL #11 @ 3", and FL #12 @ 3", which exhibited concentrations ranging from 0.305 mg/kg (FL #2 @ 3") to 0.789 mg/kg (FL #11 @ 3"). TPH concentrations ranged from less than the laboratory MDL in soil sample FL #4 @ 3" to 20,280 mg/kg in soil sample FL #12 @ 3". The TPH concentrations ranged from 160 mg/kg in soil sample FL #12 @ 3" to 20,000 mg/kg in soil sample FL #10 @ 3", which exceeded the NMOCD Closure Criterion.

On September 28, 2023, Etech collected 20 confirmation soil samples (FL #13 @ 3" through FL #32 @ 3 in) from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations were below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL in each of the submitted soil samples, with the exception of soil sample FL #19 @ 3", which exhibited a concentration of 0.649 mg/kg. TPH concentrations ranged from 10.8 mg/kg in soil sample FL #23 @ 3" to 20,870 mg/kg in soil sample FL #19 @ 3". The TPH concentrations in soil samples FL #13 @ 3", FL #16 @ 3", FL #17 @ 3", FL #18 @ 3", FL #19 @ 3", FL #25 @ 3", FL #26 @ 3", and FL #27 @ 3" exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 2,320 mg/kg in soil sample FL #22 @ 3" to 21,600 mg/kg in soil sample FL #25 @ 3", which exceeded the NMOCD Closure Criterion.

On September 29, 2023, Etech collected 15 confirmation soil samples (FL #33 @ 3 in through FL #47 @ 3") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples FL #45 @ 3", FL #46 @ 6", and FL #47 @ 3" to 852 mg/kg in soil sample FL #37 @ 3". Chloride concentrations ranged from 3,400 mg/kg in soil sample FL #45 @ 3".

On October 6, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL #2 @ 3", FL #8 @ 3", FL #10 @ 3", FL #11 @ 3", and FL #12 @ 3". Etech collected 13 confirmation soil samples (FL 2 @ 6 in, FL 8 @ 6 in, FL 10 @ 6 in, FL 11 @ 6 in, FL 12 @ 6 in, and FL 48 @ 6 in through FL 55 @ 6 in) from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples, with the exception of

soil sample FL 51 @ 6 in, which exhibited a TPH concentration of 11.1 mg/kg. Chloride concentrations ranged from 288 mg/kg in soil sample FL 2 @ 6 in to 18,400 mg/kg in soil sample FL 51 @ 6 in.

On October 9, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL #13 @ 3", FL #16 @ 3" through FL #19 @ 3", FL #21 @ 3", FL #25 @ 3", FL #26 @ 3", and FL #27 @ 3". Etech collected 17 confirmation soil samples (NW1, EW1, EW2, SW1, WW1, WW2, FL 6 @ 3 in, FL 7 @ 3 in, FL 13 @ 6 in, FL 16 @ 6 in through FL 19 @ 6 in, FL 21 @ 6 in, FL 25 @ 1 ft, FL 26 @ 1 ft, and FL 27 @ 1 ft) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples FL 13 @ 6 in, FL 26 @ 1 ft, and FL 27 @ 1 ft to 2,202 mg/kg in soil sample FL 18 @ 6 in. Chloride concentrations ranged from 144 mg/kg in soil sample FL 7 @ 3 in to 26,800 mg/kg in soil sample EW2. The chloride concentrations in soil samples NW1 and EW2 exceeded the NMOCD Closure Criterion.

On October 11, 2023, Etech collected 18 confirmation soil samples (NW2, EW3, and FL 56 @ 1 ft through FL 71 @ 1 ft) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exception of soil sample EW3, which exhibited a TPH concentration of 29.8 mg/kg. Chloride concentrations ranged from 288 mg/kg in soil sample FL 70 @ 1 ft to 6,400 mg/kg in soil sample EW3.

On October 12, 2023, Etech collected 24 confirmation soil samples (FL 72 @ 3 in through FL 95 @ 3 in) from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples FL 72 @ 3 in through FL 79 @ 3 in, FL 82 @ 3 in, FL 83 @ 3 in, FL 84 @ 3 in, FL 86 @ 3 in, FL 87 @ 3 in, FL 88 @ 3 in, FL 90 @ 3 in, FL 92 @ 3 in, and FL 94 @ 3 in to 65.1 mg/kg in soil sample FL 93 @ 3 in. Chloride concentrations ranged from 160 mg/kg in soil sample FL 93 @ 3 in.

On October 13, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NW1, EW2, FL 16 @ 6 in, and FL 18 @ 6 in. Etech collected 23 confirmation soil samples (NW1B, NW3, EW2B, SW2, SW3, WW4, WW5, FL 16 @ 1 ft, FL 18 @ 1 ft, and FL 96 @ 3 in through FL 109 @ 3 in) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples SW3, WW4, WW5, FL 96 @ 3 in through FL 100 @ 3 in, and FL 102 @ 3 in through FL 109 @ 3 in to 131 mg/kg in soil sample SW2. Chloride concentrations ranged from 240 mg/kg in soil samples WW5 and FL 108 @ 3 in to 2,920 mg/kg in soil sample NW3.

The final dimensions of the excavated area were approximately 128 to 398 feet in length, eight (8) to 84 feet in width, and three (3) inches to one (1) foot in depth. During the course of remediation activities, Etech transported approximately 220 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 220 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3B, "Site & Sample Location Map (Excavation)". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

### 6.0 **RESTORATION, RECLAMATION & REVEGETATION PLAN**

The release was limited to the production pad of an active SWD facility and did not affect the adjacent pasture. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions, and the affected area was compacted and contoured to fit the needs of the facility. Final reclamation and revegetation will be conducted upon decommissioning and abandonment of the SWD.

### 7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Solaris provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Lobo 285 SWD release site.

### 8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

### 9.0 **DISTRIBUTION**

Solaris Water Midstream, LLC 907 Tradewinds Blvd Ste B

*New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2* 

811 S. First Street Artesia, NM 88210

Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

# Figure 1 Topographic Map



# Figure 2 Site Characterization Map



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# Figures 3A & 3B Site & Sample Location Maps





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# Table 1Concentrations of BTEX, TPH & Chloride in Soil

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					Table 1						
	<b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b>										
	Solaris Water Midstream, LLC										
Lobo 285 SWD Water Reuse											
NMOCD Ref. #: nAPP2135135752											
	OCD Closure (			10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOC	CD Reclamation	n Standard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 84	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	ТРН	Chloride
		(reet)		(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>28</sub> (mg/kg)	C6-C28	C <sub>28</sub> -C <sub>36</sub> (mg/kg)	C <sub>6</sub> -C <sub>36</sub> (mg/kg)	(mg/kg)
	2/1/2022	0	L. C'ta	<0.00202	<0.00402			(mg/kg)			21.0
NH B @ 0'	2/1/2022	0	In-Situ	< 0.00202		<49.9	<49.9	<49.9	<49.9	<49.9	21.9
$\begin{array}{c} \text{NH B} @ 1' \\ \text{FH C} @ 0' \end{array}$	2/1/2022	1	In-Situ		< 0.00402	<49.9	<49.9	<49.9	<49.9 <49.9	<49.9	46.1
EH C @ 0' EH C @ 1'	2/1/2022 2/1/2022	0	In-Situ In-Situ		<0.00402 <0.00399	<49.9 <50.0	<49.9 <50.0	<49.9 <50.0	<50.0	<49.9 <50.0	18.9 8.91
SH D @ 0'		0				<30.0	<30.0	<30.0	<30.0	<30.0	
SH D @ 0 SH D @ 1'	2/1/2022 2/1/2022	1	In-Situ In-Situ		<0.00398 <0.00399	<50.0	<50.0	<50.0	<50.0	<49.9	22.6 14.9
		0			<0.00399	<49.9	< <u>30.0</u> 107	< <u>30.0</u> 107	<49.9	107	-
WH E @ 0' WH E @ 1'	2/1/2022 2/1/2022	1	In-Situ In-Situ		<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	29.9 22.4
WHF @ 0'	4/25/2022	0	In-Situ In-Situ	< 0.00199	~0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	22.4
WHF @ 0' WHF @ 1'	4/25/2022	0	In-Situ In-Situ	-	-	<50.0	<50.0	<50.0	<50.0	<50.0	152
V1 @ 0'	2/1/2022	0	In-Situ In-Situ	-	- <0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,690
V1 @ 4'	2/1/2022	4	In-Situ In-Situ	<0.00199		<49.9 <49.9	<49.9	<49.9	<49.9	<49.9	3,220
V1 @ 4 V1 @ 6'	4/25/2022	6	In-Situ In-Situ	<0.00198	<0.00397	~+9.9	~49.9	~+9.9	<b>\4</b> <i>9</i> . <i>9</i>	~49.9	521
V1 @ 0 V2 @ 0'	2/1/2022	0	In-Situ	-	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,910
V2 @ 0 V2 @ 4'	2/1/2022	4	In-Situ	< 0.00200		<50.0	<50.0	<50.0	<50.0	<50.0	7,050
V2 @ 4 V2 @ 6'	4/25/2022	6	In-Situ	<0.00200	<0.00377	-50.0	<50.0	<50.0	<50.0	<50.0	279
V3 @ 0'	2/1/2022	0	Excavated	< 0.00200	< 0.00400	<50.0	440	440	<50.0	440	27,700
V3 @ 4'	2/1/2022	4	In-Situ	< 0.00200		<49.9	<49.9	<49.9	<49.9	<49.9	10,800
V3 @ 12'	4/25/2022	12	In-Situ	-0.00200		-	-	-	-	-	9,100
BH1 @ 30'	7/19/2023	30	In-Situ	_	_	_	_	_	_	_	272
BH1 @ 35'	7/19/2023	35	In-Situ	_	_	_	_	_	_	_	128
NW1	10/9/2023	0-1	Excavated	< 0.050	< 0.300	<10.0	33.8	33.8	15.4	49.2	22,800
	10/13/2023	0-1	In-Situ	< 0.050	< 0.300	<10.0	15.7	15.7	<10.0	15.7	992
NW2	10/11/2023	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,040
NW3	10/13/2023	0-0.25	In-Situ	< 0.050	< 0.300	<10.0	71.6	71.6	<10.0	71.6	2,920
EW1	10/9/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	286	286	117	403	2,000
EW2	10/9/2023	0-1	Excavated	< 0.050	< 0.300	<10.0	118	118	58.3	176	26,800
	10/13/2023	0-1	In-Situ	< 0.050	< 0.300	<10.0	23.7	23.7	<10.0	23.7	1,920
	10/11/2023	0-1	In-Situ	< 0.050	< 0.300	<10.0	29.8	29.8	<10.0	29.8	6,400
SW1	10/9/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	519	519	327	846	8,000
SW2	10/13/2023	0-1	In-Situ	< 0.050	< 0.300	<10.0	83.1	83.1	47.6	131	256
SW3	10/13/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW1	10/9/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	26.7	26.7	14.6	41.3	7,730
WW2	10/9/2023	0-0.25	In-Situ	< 0.050	< 0.300	<10.0	276	276	151	427	5,680
WW4	10/13/2023	0-0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
	10/13/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL #1 @ 3"	9/27/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	103	103	99.4	202	160
FL #2 @ 3"	9/27/2023	0.25	Excavated	< 0.050	0.305	135	9,920	10,100	3,590	13,600	1,280
FL 2 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL #3 @ 3"	9/27/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	88.5	88.5	61.3	150	560
FL #4 @ 3"	9/27/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL #5 @ 3"	9/27/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	227	227	168	395	1,040
FL 6 @ 3 in	10/9/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	294	294	71.4	365	9,330
FL 7 @ 3 in	10/9/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	269	269	149	418	144
FL #8 @ 3"	9/27/2023	0.25	Excavated	< 0.050	< 0.300	<10.0	1,510	1,510	68.5	1,580	8,800

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					Table 1						
			Concentr	ations of ]	ВТЕХ, ТР	H & Chlo	ride in So	il			
			\$		ater Mids						
					5 SWD Wa						
			N	1	ef. #: nAP	1				1	
	IOCD Closure (		-	10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMO	CD Reclamation	1 Standard	1	10	50	N/A	N/A	N/A N/A		100	600
		_		SW 840	6 8021B			846 8015M		1	4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	ТРН	Chloride
		(1 cct)		(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>28</sub> (mg/kg)	C6-C28	C <sub>28</sub> -C <sub>36</sub> (mg/kg)	C <sub>6</sub> -C <sub>36</sub> (mg/kg)	(mg/kg)
FL 8 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	(mg/kg) <20.0	<10.0	<30.0	656
FL #9 @ 3"	9/27/2023	0.25	In-Situ In-Situ	< 0.050	<0.300	<10.0	145	145	32.2	< <u>30.0</u> 177	12,200
FL #10 @ 3"	9/27/2023	0.25	Excavated	<0.050	<0.300	<10.0	2,860	<b>2,860</b>	1,200	4,060	20,000
FL 10 @ 6 in	10/6/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL #11 @ 3"	9/27/2023	0.25	Excavated	< 0.050	0.789	<10.0	12,200	12,200	4,790	<b>17,000</b>	6,400
FL 11 @ 6 in	10/6/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL #12 @ 3"	9/27/2023	0.25	Excavated	< 0.050	0.726	<10.0	14,600	< <u>14,600</u>	5,680	20,300	5,040
FL 12 @ 6 in	10/6/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL #13 @ 3"	9/28/2023	0.25	Excavated	< 0.050	< 0.300	<10.0	4,580	4,580	1,860	<b>6,440</b>	8,800
FL 13 @ 6 in	10/9/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,000
FL #14 @ 3"	9/28/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	37.6	37.6	10.3	47.9	19,200
FL #15 @ 3"	9/28/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	44.1	44.1	24.0	68.1	6,400
FL #16 @ 3"	9/28/2023	0.25	Excavated	< 0.050	< 0.300	<10.0	3,040	3,040	1,370	4,410	10,000
FL 16 @ 6 in	10/9/2023	0.5	Excavated	< 0.050	< 0.300	86.2	1,330	1,420	361	1,780	1,360
FL 16 @ 1 ft	10/13/2023	1	In-Situ	< 0.050	< 0.300	<10.0	17.7	17.7	<10.0	17.7	1,170
FL #17 @ 3"	9/28/2023	0.25	Excavated	< 0.050	< 0.300	13.1	6,110	6,120	2,110	8,230	16,400
FL 17 @ 6 in	10/9/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	13.3	13.3	<10.0	13.3	2,800
FL #18 @ 3"	9/28/2023	0.25	Excavated	< 0.050	< 0.300	21.8	6,350	6,370	2,150	8,520	3,200
FL 18 @ 6 in	10/9/2023	0.5	Excavated	< 0.050	< 0.300	94.2	1,670	1,760	438	2,200	2,200
FL 18 @ 1 ft	10/13/2023	1	In-Situ	< 0.050	< 0.300	<10.0	46.5	46.5	165	63.0	2,200
FL #19 @ 3"	9/28/2023	0.25	Excavated	< 0.050	0.649	<100	15,300	15,300	5,570	20,900	3,680
FL 19 @ 6 in	10/9/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,840
FL #20 @ 3"	9/28/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	39.4	39.4	<10.0	39.4	5,840
FL #21 @ 3"	9/28/2023	0.25	Excavated	< 0.050	< 0.300	<10.0	1,180	1,180	625	1,810	11,000
FL 21 @ 6 in	10/9/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,240
FL #22 @ 3"	9/28/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	151	151	66.2	217	2,320
FL #23 @ 3"	9/28/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	10.8	10.8	<10.0	10.8	7,200
FL #24 @ 3"	9/28/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	377	377	273	650	6,800
FL #25 @ 3"	9/28/2023	0.25	Excavated	< 0.050	< 0.300	<10.0	2,680	2,680	1,230	3,910	21,600
FL 25 @ 1 ft	10/9/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
FL #26 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	3,400	3,400	1,390	<b>4,790</b>	15,600
FL 26 @ 1 ft	10/9/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,000
FL #27 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	2,050	<b>2,050</b>	840	<b>2,890</b>	4,640
FL 27 @ 1 ft FL #28 @ 6"	10/9/2023 9/28/2023	1 0.5	In-Situ In Situ	<0.050 <0.050	<0.300 <0.300	<10.0 <10.0	<10.0	<20.0	<10.0	<30.0 69.0	4,880
FL #28 @ 6 FL #29 @ 3 in	9/28/2023	0.3	In-Situ In-Situ	< 0.050	<0.300	<10.0	42.6 215	42.6 215	26.4 119	334	5,600
FL #29 @ 3 in FL #30 @ 3 in	9/28/2023	0.25	In-Situ In-Situ	< 0.050	<0.300	<10.0	215	215	153	429	4,640 5,360
FL #30 @ 3 in	9/28/2023	0.25	In-Situ In-Situ	<0.030	<0.300	<10.0	69.4	69.4	46.9	429 116	3,300 8,800
FL #31 @ 3 in FL #32 @ 3 in	9/28/2023	0.25	In-Situ In-Situ	<0.050	<0.300	<10.0	614	614	337	951	13,800
FL #33 @ 3 in	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	115	115	31.9	147	8,260
FL #34 @ 3 in	9/29/2023	0.25	In-Situ	< 0.050	<0.300	<10.0	234	234	88.7	323	6,400
FL #35 @ 3"	9/29/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	193	193	80.4	273	11,600
FL #36 @ 3"	9/29/2023	0.25	In-Situ	< 0.050	<0.300	<10.0	102	102	40.8	143	7,730
FL #37 @ 3"	9/29/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	581	581	271	852	9,730
FL #38 @ 3"	9/29/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	236	236	73.8	310	8,660
			~	5.000	5.500					210	-,

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					Table 1						
					ВТЕХ, ТР			il			
					ater Mids	)	-				
					5 SWD Wa						
			N		ef. #: nAP		-				
	IOCD Closure (		•	10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMO	CD Reclamation	1 Standard	1	10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	ТРН	Chloride
		(reet)		(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>28</sub> (mg/kg)	C6-C28	C <sub>28</sub> -C <sub>36</sub> (mg/kg)	C <sub>6</sub> -C <sub>36</sub> (mg/kg)	(mg/kg)
FL #39 @ 3"	9/29/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	228	(mg/kg) 228	86.9	315	10,100
FL #39 @ 3 FL #40 @ 3"	9/29/2023	0.25	In-Situ In-Situ	< 0.030	<0.300	<10.0	228	228	143	430	,
FL #40 @ 3 FL #41 @ 3"	9/29/2023	0.25	In-Situ In-Situ	<0.030	< 0.300	<10.0	287	287	143	430	7,860 7,330
FL #41 @ 3 FL #42 @ 3"	9/29/2023	0.25	In-Situ In-Situ	< 0.030	< 0.300	<10.0	31.4	31.4	109	400	3,400
FL #42 @ 5 FL #43 @ 6"	9/29/2023	0.23	In-Situ In-Situ	< 0.050	< 0.300	<10.0	62.4	62.4	<10.0	62.4	10,000
FL #44 @ 6"	9/29/2023	0.5	In-Situ In-Situ	< 0.050	< 0.300	<10.0	111	111	17.4	128	11,600
FL #44 @ 0 FL #45 @ 3"	9/29/2023	0.3	In-Situ In-Situ	< 0.030	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
FL #46 @ 6"	9/29/2023	0.23	In-Situ In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,720
FL #47 @ 3"	9/29/2023	0.3	In-Situ In-Situ	< 0.030	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,520
FL 48 @ 6 in	10/6/2023	0.25	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
FL 49 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,460
FL 50 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,600
FL 51 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	11.1	11.1	<10.0	11.1	18,400
FL 52 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,300
FL 53 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,330
FL 54 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
FL 55 @ 6 in	10/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,200
FL 56 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FL 57 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
FL 58 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,720
FL 59 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 60 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
FL 61 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 62 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
FL 63 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 64 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
FL 65 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
FL 66 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 67 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,010
FL 68 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
FL 69 @ 1 ft	10/11/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 70 @ 1 ft	10/11/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 71 @ 1 ft	10/11/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 72 @ 3 in	10/12/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
FL 73 @ 3 in	10/12/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,410
FL 74 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 75 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 76 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
FL 77 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 78 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,170
FL 79 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 80 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	31.3	31.3	<10.0	31.3	2,800
FL 81 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	<0.300	<10.0	34.4	34.4	<10.0	34.4	2,680
FL 82 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 83 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

.

					Table 1						
			Concentr	ations of ]	втех, тр	H & Chlo	ride in So	il			
				Solaris W	ater Mids	tream, LL	۲C				
				Lobo 28	5 SWD Wa	ater Reus	e				
			Ν	MOCD R	ef. #: nAP	P2135135	752				
NM	IOCD Closure (	Criteria		10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMO	CD Reclamation	Standaro	1	10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	5 8021B		SW	846 8015M	Ext.	-	4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C6-C36 (mg/kg)	Chloride (mg/kg)
FL 84 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 85 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	51.6	51.6	<10.0	51.6	2,920
FL 86 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 87 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 88 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 89 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	61.1	61.1	<10.0	61.1	3,320
FL 90 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 91 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	42.3	42.3	<10.0	42.3	3,200
FL 92 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 93 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	65.1	65.1	<10.0	65.1	3,360
FL 94 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 95 @ 3 in	10/12/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	30.3	30.3	<10.0	30.3	1,100
FL 96 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 97 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 98 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 99 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 100 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 101 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	56.6	56.6	<10.0	56.6	2,760
FL 102 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 103 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 104 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 105 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 106 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 107 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 108 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 109 @ 3 in	10/13/2023	0.25	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272

•

# Appendix A Depth to Groundwater Information



	V	Vat	er (	Col	u	m	n	<b>/A</b> \	vera	ige D	epth t	o Wa	ter	
A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right ille.)	(R=POD been rep O=orpha C=the fil closed)	placed, aned,			arter			IW 2=N Illest to		I=SE) IAD83 UTM in	meters)	(In fe	et)	
		POD			_									
POD Number	Code	Sub-	County	Q Q		200	Тиго	Dna	x	v	DistanceDer	sthWallDant		ate
<u>C 04660 POD1</u>	Code	CUB	ED ED				25S	-	<b>^</b> 587519	3554290	DistanceDep 145	105	InwaterCo	Iun
<u>C 01522</u>		С	ED		1	22	25S	28E	586843	3554004*	876	150		
<u>C 01453</u>		С	ED	1	2	26	25S	28E	589096	3552612*	2229	70	40	:
										Ave	rage Depth to W	ater:	40 fee	et
											Minimum De	pth:	40 fee	et
											Maximum De	pth:	40 fee	ət
Record Count:3														
UTMNAD83 Radiu	us Search	(in mete	ers):											
Easting (X): 58	37661		Nort	hing (Y	<b>'):</b> 3	8554	317.7	7		Radius: 3220	)			
*UTM location was deriv														

8/21/23 3:50 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer Point of Diversion Summary

	(quarters are 1=NW 2= (quarters are smallest	,	NAD83 UTM in meters)	
Well Tag POD Number	Q64 Q16 Q4 Sec	Tws Rng	X Y	
NA C 04660 POD1	2 1 2 22	25S 28E 5	587519 3554290 🤇	<b>)</b>
Driller License: 1833 Driller Name: MALEY, JA	Driller Company: SONASTR.L.NER	VISION RES	OURCES, INC	
Drill Start Date: 06/15/202	2 Drill Finish Date:	06/15/2022	Plug Date:	06/20/2022
Log File Date: 06/05/202	3 PCW Rcv Date:		Source:	
Pump Type:	Pipe Discharge Siz	e:	Estimated Yie	eld:
Casing Size:	Depth Well:	105 feet	Depth Water:	

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.

8/21/23 3:52 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters are 1=NW 2=N	E 3=SW 4=SE)			
		(quarters are smallest to	largest)	(NAD83 U'	TM in meters)	
Well Tag PO	D Number	Q64 Q16 Q4 Sec	Tws Rng	Х	Y	
С	01522	1 22	258 28E	586843	3554004*	
<sup>x</sup> Driller License:	30	Driller Company:	BARRON,	EMMETT		
Driller Name:	BARRON, EMM	IETT				
Drill Start Date	: 07/15/1974	Drill Finish Date:	09/10/197	74 Plu	ıg Date:	
Log File Date:	10/03/1974	PCW Rcv Date:		So	urce:	
Pump Type:		Pipe Discharge Size:		Est	timated Yield:	
Casing Size:		Depth Well:	150 feet	De	pth Water:	

\*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.

1/11/22 2:35 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer Point of Diversion Summary

			(quarters are 1= (quarters are s				(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64 Q16 Q		c	<i>,</i>	X	Y	
	C 0	1453	1 2	2 26	25S	28E	589096	3552612* 🧲	
Driller Lic	ense:	30	Driller Comp	any:	BA	RRON, H	EMMETT		
Driller Na	me:	BARRON, EMM	IETT						
Drill Start	Date:	07/17/1971	Drill Finish D	ate:	0	7/20/1971	l Pl	ug Date:	
Log File D	ate:	08/02/1971	PCW Rev Da	te:			So	urce:	Shallow
Ритр Тур	e:		Pipe Discharg	ge Size	e:		Es	timated Yield	:
Casing Siz	•	6.00	Depth Well:		7	0 feet	D/	pth Water:	40 feet

\*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.

1/11/22 2:35 PM

POINT OF DIVERSION SUMMARY



#### Legend

- Site Location
- O Well USGS
- 500-Ft Radius
- 1,000-Ft Radius
- 0.5-Mi Radius

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### Figure 5 USGS Well Proximity Map Solaris Water Midstream, LLC Lobo 285 SWD Water Reuse GPS: 32.121830, -104.070718 Eddy County



Drafted: bja

Checked: jwl

Date: 9/8/23



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Important: <u>Next Generation Monitoring Location Page</u>

### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 320749104041001

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320749104041001 25S.28E.15.23000

Eddy County, New Mexico Latitude 32°07'54.6", Longitude 104°04'20.3" NAD83 Land-surface elevation 2,949.30 feet above NGVD29 The depth of the well is 70 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats** 

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date \$	Time \$	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical \$ datum	? \$tatus	? Method of measurement	? Measuring agency	? Source of the source of the	? Water- level approval status
1975-12-09		D	72019	48.50			1	Z			F
1976-01-16		D	72019	48.66			1	Z			F
1977-01-14		D	72019	48.93			1	Z			F
1978-02-23		D	72019	49.79			1	Z			, A
1983-02-01		D	72019	46.67			1	Z			F
1987-10-14		D	72019	45.03			1	Z			F
1992-11-04		D	72019	47.95			Р	S			F

### Received by OCD: 10/30/2023 9:54:23 AM

Date \$	Time 🗘	? Water- level ¢ate-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above ≎ specific vertical datum	Referenced vertical ≎ datum	? \$tatus	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status	\$
1998-01-23		D	72019	49.94			1	S				А
2003-01-27		D	72019	49.87			1	S	USGS	S		А
2013-01-10	18:45 UTC	m	72019	49.43			1	S	USGS	S		Α

Explanation
-------------

Section \$	Code \$	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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### Search Results -- 1 sites found

Agency code = usgs site\_no list = • 320758104041601

#### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

### USGS 320758104041601 25S.28E.15.23231

Eddy County, New Mexico Latitude 32°07'58", Longitude 104°04'16" NAD27 Land-surface elevation 2,962 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date \$	Time \$	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? \$tatus	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1948-12-06		D	72019	48.85			1	Z			А

### Received by OCD: 10/30/2023 9:54:23 AM

Explanation							
Section \$	Code \$	Description					
Water-level date-time accuracy	D	Date is accurate to the Day					
Parameter code	62610	Groundwater level above NGVD 1929, feet					
Parameter code	62611	Groundwater level above NAVD 1988, feet					
Parameter code	72019	Depth to water level, feet below land surface					
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988					
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929					
Status	1	Static					
Method of measurement	Z	Other.					
Measuring agency		Not determined					
Source of measurement		Not determined					
Water-level approval status	А	Approved for publication Processing and review completed.					

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320649104062401

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 320649104062401 25S.28E.20.41321

Eddy County, New Mexico Latitude 32°06'49", Longitude 104°06'24" NAD27 Land-surface elevation 3,007 feet above NAVD88 This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats** 

Table of data	•	
Tab-separated data		
Graph of data		
Reselect period		

Date \$	Time \$	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1983-10-07		D	72019	63.80			1	Z			А
1987-10-13		D	72019	63.04			1	Z			А
1992-11-03		D	72019	63.20			1	S			А
1998-01-23		D	72019	63.89			1	S			А
Explanation											
--------------------------------	---------	---	--	--							
Section \$	Code \$	Description									
Water-level date-time accuracy	D	Date is accurate to the Day									
Parameter code	62610	Groundwater level above NGVD 1929, feet									
Parameter code	62611	Groundwater level above NAVD 1988, feet									
Parameter code	72019	Depth to water level, feet below land surface									
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988									
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929									
Status	1	Static									
Method of measurement	S	Steel-tape measurement.									
Method of measurement	Z	Other.									
Measuring agency		Not determined									
Source of measurement		Not determined									
Water-level approval status	А	Approved for publication Processing and review completed.									

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### **Appendix B Field Data & Soil Profile Logs**





1

Sample Log

Date:

2/1/22 +

Project:	Lobo 285 S\	ND Water Reuse	
Project Nu	mber:	15510	Latitude:

32.12183 Longitude:

-104.070718

Sample ID	PID/Odor	Chloride Conc.	GPS
VI ezi		9.4	
V2 @31 V3 23		9.2	
10 11		10.0	
VI QU'		8.2	
V3 Q4'		9,2 9,3	
v) = (		1,0	1/25/22
NHF e o'		3.8 536	- 7/63/20
NILCRI		3,6 488	•
130.5	_	8,2 7 2584	-
13 P. G.	-	Bay 7 2584	
1/3@71	-	9.4 72584	
V32 899'	-	9.4 > 2584	
1/3 e 11'	-	10.0 7 2584	
V3C 12 - Max	$\sim$	9.0 > 2584 45.2 4700	•
TRV205	-	6.0 1292	
1/206	~		2
1165	(	3.0 352 4.2 648	
VICC	-	3.0 352	Ø
TT-1 @ 14 Ff	-	1272	
TT-1 @ 16 Ft	-	2,548	
TT-1 6 18 F1 TT-1 6 20 Ft	-	2548	
		2204	
TT-1 @ 22 Ft	-	2112	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc Sidewall = SW #1 etc

Refusal = SP #1 @ 4'-R Soil Intended to be Deferred = SP #1 @ 4' In-Situ Stockpile = Stockpile #1 GPS Sample Points, Center of Comp Areas

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Sample Log

					Date:	
Project:	Project: Lobo 285 SWD Water Reuse					
Project Nu	mber:	15510	Latitude:	32.12183	Longitude:	-104.070718

Sample ID	PID/Odor	Chloride Conc.	GPS
FL # 1 6 3'	-	356	
FL #2 @ 3	-	1572	
FL # 3 @ 3	-	1972	
FL # Y@ 3	~	356	
FL # 5 @ 3'	-	3.164	
FL #6 6 3'	-	9	
FL #7 6 3'	-	5,192	
FL #8 @ 3'	-		
FL #9 63'	-	9.676	
FL # 10 (a, 3'	-	16,236	
FL # 11 (a 3'	-	7,084	
FL #12 @ 3	-	4796	
FL # 13 @ 3'	(	12,372	
FL #14 @ 3'	1	16,236	
FL # 15 @ 3	Ţ	6556	
FC # 16 6 3	ţ	12,372	
FL # 17 6 3	-	12,372	
FL # 18 @ 3' "	-	4080	
FL # 19 @ 3'	(	5616	
FL # 20 @ 3'	~	6,556	
FL # 21 @ 3	~	11,396	
FL # 22 @ 3'	-	3,164	
FL # 23 @ 3'	-	8268	
FL #24 6 3'	-	10,484	
FZ # 25 6 3	~	12,372	
FL # 26 @ 3	-	16,236	
FL # 27 6 3'	~	7084	
FL # 28 @ 3'		20,004	
FL # 29 @ 3	-	2084	
FL # 30 © 3 FL # 30 © 3	-	17,952	
FL# 28@6'	-	6,556	
FZ # 38 @ 6' FZ # 31 @ FL # 32 @ FL # 33 @ FL # 33 @ FL # 34 @	-	17,952 6,556 11,376 11,376 8,268	
EL # 32 (C)	-	11,376	
FL # 33 (G)	-	8,268	
L # 34 @	-	8268	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ## Refusal = SP #1 @ 4'-R Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1

Floor = FL #1 etc

Sidewall = SW #1 etc

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

**GPS Sample Points, Center of Comp Areas** 

\_\_\_\_\_



Sample Log

Date:

Project Number:

Project:

Latitude:

Longitude:

Sample ID	PID/Odor		GPS
FZ # 35 @ 3'		12,372	
FL # 36 @ 3'	-	11.376	
FL # 37 @ 3' FL # 38 @ 3'	-	11.376	
FL # 38 @ 3'	-	6556	
FL# 39 @ 3'	-	11,376 6556 10,984	
FL # 40 @ 5'	~	5904	
FZ# 41@ 3'	-	5904 6556	
FL# 42 @ 3'	~	4428	
FL # 43 @ 3'	-	27,436	
FL # 44 6 3'	-	27,436	
Fl # 45 63'	-	27,436 14,112	
FL # 46 6,3'	-	20,864	
FL # 43 66	-	15,428	
FL # 44 @ 6' FL # 46 @ 61	-	14,112 4784 4324	
FL # 46 @ 61	~	4784	
FL # 47 6 03'	-	4324	
FL 48 C 6	-	18,624	
FL 119 @ 6 FL 50 @ 6	-	6.674	
FL 50 C 6	-	18.624	
RSIEG	-	12,680	
A52 @6	-	9084	
FL53 @6	-	6174	
FLS4 66		9,852	
FL55@6	-	16780	
FLZQ6	-	444	
FL 80 6 FL 1006	-	6.624	
FL 10@6	-	9,084	
FL 11@6	-	161786	
FL 12@6		9084	
FL 13@6in	>	3,456	
FL 16 BGin	-	2,896	
El 17 e6:n	-	4448	
FL 18 PGin	-	4096	
NWI	F	17952	
WWI	F	8268	
Ww2	-	8268	

Sample Point = SP #1 @ ## etc

#### Test Trench = TT #1 @ ##

Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc Sidewall = SW #1 etc

Refusal = SP #1 @ 4'-R Soil Intended to be Deferred = SP #1 @ 4' In-Situ Stockpile = Stockpile #1 GPS Sample Points, Center of Comp Areas

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~		0
<u> </u>		24
1	LOI	
	Environmento	al & Safety Solutions, Inc.

Sample Log

IN

Latitude:

out

Date:

Project: Project Num

Project Number:

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
EWI	-	3164	
EV2	-	16,236	
541		10,484	
16@3in	-	356	
17@3:4	-	9676	
L21@6in	-	5,224	
L 19 @ 6: h	-	2,99-6-	-
2250 11	-	2,894	
LZGCIPt	-	1,764	
12701 ft	-	3,768	
156 e 1 ft	n.	972	
LSTelft		1.194 -	
158elft	-	8825	2
15901Ft	-	592	
60@1ft	-	2,080	
61@1ft	-	900	
62 81Ft	-	1384	
L63-@15+	F	708 👟	
EW 1	en	4448	
VWZ	-	2,237	
264014	-	1581	
165014	-	1,816	
-166 @1 ft	-	837	
=1.67 @1 ft	-	172	
168014	a-	1816	
269 00 (4	-	592	
2 20 @ 164	-	900	
ici p 1ft	*	1384	
L 72 e312	-	3164	
1 73 0 3 in	-	1944	
L 74 83 in 1 75 83 in	-	900	
1 75 \$ 3 in	-	16236	
176 83 in	-	972 1584 3768	
177 03 in	-	1584	
178 P3 in	r	3768	
179 Q3 Th	-	1764	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Floor = FL #1 etc Sidewall = SW #1 etc Refusal = SP #1 @ 4'-R Soil Intended to be Deferred = SP #1 @ 4' In-Situ

GPS Sample Points, Center of Comp Areas

Received by OCD: 10/30/2023 9:54:23	AM	•
- Alexandre	in	001
CTECH	15	111



Sample Log

Date:

Project:

Project Number:

Latitude:

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
~ 80 p3 i1	- Nond	3.164	
L 81 @ 3 m	-	592	
2 82 8 3,4	-	3768	
EL 83 @ 3 in	-	9.678	
FL 84 @ 3 in	/	356	
Fl 85 @ 3	~	972	
2 86 0 3 in _		1816 -	
2 87 03 in	-	546	
E 88 23 in	-	900	
( 89 @ 3 W	-	1384	
2 90 0 3 ive	-	1044	
el 9103 in -	-	1764	
= 42 8 3 in	-	2896	-
FL 93 03 in	-	6 624	
FL 94 @ 3 in	~	9 0 8 4	
11 9503 in	-	16 704	
4 96 QZ in	~	8 268	
a 97 @ 3 , n	- 40	9857	
1 98 8 3 m	-	12680	
49 @ 3 N	-	4784	
2 100 P 3 in		2,080	
E 101 10,3 in		17611	
E 102 @ 3 in	-	3768	
1 103 03 11	*	3164	
1 104 @3 in		1384	
2 105 83 in		1764	
a 106 @ 3 in	-	16 704	
2 107 @ 3 in		2896	-
210883.	-	592	
109 @ 3 m	~	900	
NWB	-	1764	
SW2	-	2896	
WW4	-	8269	
WWS	-	3,768	
	-	5/107	
543			

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ## Refusal = SP #1 @ 4'-R

Floor = FL #1 etc

Sidewall = SW #1 etc

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Sample ID PIE			
NWIB -	out	In Sample Log Date:	
Sample ID PIC	Latitu	do: Long	itude:
NWIB -	D/Odor	Chloride Conc.	GPS
EW2B -		Selection de conte.	GFS
FL 16@1 -		2	
-L 18 el -	191	44	
		-	

-

-

Floor = FL #1 etc	
Sidewall = SW #1 etc	

Sample Point = SP #1 @ ## etc

\* \*

Test Trench = TT #1 @ ##

Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1

-

Refusal = SP #1 @ 4'-R Soil Intended to be Deferred = SP #1 @ 4' In-Situ

GPS Sample Points, Center of Comp Areas

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Site: L NMOC Locatio	obo : CD Re on: E	285 SWD eference Eddy Co.,	t: nAPP2135135752 Drilling Date: 6/15/	83): 32.121596,-104.072229 2022 ): 105 ater (ft): >105	Driller: Ja Drilling N Logged E Drafted B	ling Company: Vision Resources ler: Jason Maley (NM License #1833) ling Method: Air Rotary Iged By: Jason Maley fted By: B.J. Arguijo ft Date: 8/2/2023						
Compl	letior	1: N/A	Casing: N/A		Screen:	en: N/A						
Comm	ents	N/A										
Depth (ft)	Groundwater	Lithology	Material Descri	ption		Petroleum Odor	Petroleum Stain	PID Reading	Well Construction			
- 5 - 10 - 15			Silty sand with gravel, light brown			-	-	-				
- 20 - 25 - 30			Small gravel with clay, light brown			-	-	-				
- 35 - 40			Silty sand, light brown			-	-	-				
- 45 - 50 - 55			Clay with sand, light brown			- -	-	-	nen Hole			
- 60 - 65						-	-	-				
- 70 - 75			Fine sand with silty sand and trace clay, light brow	wn		-	-	-				
80 85 90			Very fine sand with silty sand and trace gravel, b	rown		-	-	-				
95 100			Sand with clay, light brown			-	-	-				
- 110 - 110 - 115			Clay with silty sand, light brown Notes: • Lines between material types represent approxi may be gradual. • The exploratory soil boring was left open for 72 accumulation of water were noted during the adv log is intended for environmental not geotechnica	hours. No indications of inflow ancement of the soil boring.		-	-	-				

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## Appendix C Photographic Log





View of the affected area.



















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# **Appendix D Laboratory Analytical Reports**

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

#### Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

#### Laboratory Job ID: 880-10920-1

Laboratory Sample Delivery Group: Rural Eddy Co, NM Client Project/Site: Lobo 285 SWD Water Reuse Revision: 2

#### For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: PM List

CRAMER

Authorized for release by: 2/17/2022 12:48:20 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 3/18/2024 9:58 55 AM

Laboratory Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

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#### **Definitions/Glossary**

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Qualifiers

GC VOA

GC VUA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	5
U	Indicates the analyte was analyzed for but not detected.	
GC Semi V	ΟΑ	
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	9
U	Indicates the analyte was analyzed for but not detected.	
Glossary		

#### Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis ¤ %R Percent Recovery CFL **Contains Free Liquid** Colony Forming Unit CFU CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present Practical Quantitation Limit PQL PRES Presumptive QC **Quality Control** RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin) Too Numerous To Count TNTC

3

**Case Narrative** 

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Job ID: 880-10920-1

#### Laboratory: Eurofins Midland

Narrative

Job Narrative 880-10920-1

#### REVISION

The report being provided is a revision of the original report sent on 2/14/2022. The report (revision 2) is being revised due to Correcting sample IDs 02/17/2021.

#### Report revision history

The report being provided is a revision of the original report sent on 2/14/2022. The report (revision 2) is being revised due to Correcting sample IDs 02/17/2021.

Revision 1 - 2/17/2022 - Reason - Per client email, corrected sample ID and depths..

#### Receipt

The samples were received on 2/4/2022 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18627 and analytical batch 880-18625 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: V2 @ 0' (880-10920-3). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: V1 @ 0' (880-10920-1), V1 @ 4' (880-10920-2), V2 @ 0' (880-10920-3), V2 @ 4' (880-10920-4), V3 @ 4' (880-10920-6), NH B @ 0' (880-10920-7), NH B @ 1' (880-10920-8), EH C @ 0' (880-10920-9) and EH C @ 1' (880-10920-10). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-18664/2-A) and (LCSD 880-18664/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18571 and analytical batch 880-18734 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Client Sample ID: V1 @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 0

#### Lab Sample ID: 880-10920-1

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				02/05/22 12:11	02/05/22 17:16	1
1,4-Difluorobenzene (Surr)	70		70 - 130				02/05/22 12:11	02/05/22 17:16	1
Method: Total BTEX - Total BT									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg	_		02/10/22 10:09	1
Method: 8015 NM - Diesel Rar									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1
Method: 8015B NM - Diesel Ra	ange Organi	ics (DRO) (	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:17	1
Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130					02/07/22 02:17	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 02:17	1
Method: 300.0 - Anions, Ion C		· ·							
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chloride	4690		99.4		mg/Kg			02/11/22 20:34	20
lient Sample ID: V1 @ 4'						L	.ab Sample	e ID: 880-10	
ate Collected: 02/01/22 00:00								Matrix	: Solid
ate Received: 02/04/22 15:40 ample Depth: 4									
• •									
Method: 8021B - Volatile Orga Analyte		unds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198		0.00198		mg/Kg		02/05/22 12:11	02/05/22 17:37	1
Toluene	<0.00198		0.00198		mg/Kg mg/Kg		02/05/22 12:11		1
	-0.00190	0	0.00190		y/1Xy		ULIUUILL IL.11	JE100122 11.31	1

4-Bromofluorobenzene (Surr)			70 - 130		02/05/22 12:11	02/05/22 17:37	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00397	U	0.00397	mg/Kg	02/05/22 12:11	02/05/22 17:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg	02/05/22 12:11	02/05/22 17:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg	02/05/22 12:11	02/05/22 17:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	02/05/22 12:11	02/05/22 17:37	1
Toluene	<0.00198	U	0.00198	mg/Kg	02/05/22 12:11	02/05/22 17:37	1

**Eurofins Midland** 

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2/17/2022 (Rev. 2)

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

#### Client Sample Results

Limits

70 - 130

0.00397

RL

RL

49.9

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Method: Total BTEX - Total BTEX Calculation

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Analyzed

02/05/22 17:37

Analyzed

02/10/22 10:09

Analyzed

02/10/22 09:32

Analyzed

Lab Sample ID: 880-10920-3

Matrix: Solid

1

1

1

1

1

1

1

1

#### Client Sample ID: V1 @ 4' Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Sample Depth: 4

1,4-Difluorobenzene (Surr)

Surrogate

Analyte

Analyte

N Α

Total TPH

Total BTEX

#### Lab Sample ID: 880-10920-2 Matrix: Solid

Prepared

02/05/22 12:11

Prepared

Prepared

Prepared

D

D

п

Method: 8015B NM - Diesel Ra	ange Organics (DRO) (	(GC)
Analyte	Result Qualifier	RL

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier

**Result Qualifier** 

**Result Qualifier** 

<49.9 U

71

<0.00397 U

Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	02/04/22 16:00	02/07/22 02:37	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg	02/04/22 16:00	02/07/22 02:37	1
C10-C28)	- 40.0		10.0		00/04/00 40:00	00/07/00 00:07	4
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	02/04/22 16:00	02/07/22 02:37	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130		02/04/22 16:00	02/07/22 02:37	1
o-Terphenyl	0	S1-	70 - 130		02/04/22 16:00	02/07/22 02:37	1
o rorphonyn	0	07	10=100			•=••=••	

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	3220		25.3		mg/Kg			02/11/22 20:44	5

#### Client Sample ID: V2 @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

#### Sample Depth: 0 Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Benzene < 0.00199 U 0.00199 mg/Kg 02/05/22 12:11 02/05/22 17:57 02/05/22 12:11 Toluene <0.00199 U 0.00199 mg/Kg 02/05/22 17:57 Ethylbenzene <0.00199 U 0.00199 mg/Kg 02/05/22 12:11 02/05/22 17:57 m-Xylene & p-Xylene <0.00398 U 0.00398 02/05/22 12:11 02/05/22 17:57 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 02/05/22 12:11 02/05/22 17:57 Xylenes, Total <0.00398 U 0.00398 mg/Kg 02/05/22 12:11 02/05/22 17:57 Surrogate %Recoverv Qualifier Limits Prepared Analvzed Dil Fac 70 - 130 02/05/22 12:11 02/05/22 17:57 4-Bromofluorobenzene (Surr) 139 S1+ 1,4-Difluorobenzene (Surr) 120 70 - 130 02/05/22 12:11 02/05/22 17:57 Method: Total BTEX - Total BTEX Calculation Analvte **Result Qualifier** RL MDL Unit D Prepared Dil Fac Analyzed Total BTEX <0.00398 U 0.00398 02/10/22 10:09 mg/Kg

Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (GO	C)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/10/22 09:32	1

**Eurofins Midland** 

RL

50.0

50.0

50.0

RL

25.2

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

Prepared

Prepared

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

0 S1-

0 S1-

**Result Qualifier** 

2910

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Analyzed

Analyzed

Analyzed

02/14/22 09:08

Lab Sample ID: 880-10920-4

#### Client Sample ID: V2 @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 0

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client Sample ID: V2 @ 4'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

# Lab Sample ID: 880-10920-3

02/04/22 16:00 02/07/22 02:58

02/04/22 16:00 02/07/22 02:58

02/04/22 16:00 02/07/22 02:58

02/04/22 16:00 02/07/22 02:58

02/04/22 16:00 02/07/22 02:58

Matrix: Solid

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Dil Fac

1

1

1

5

Dil Fac

Dil Fac

Matrix: Solid

Method: 8021B - Volatile Orga				ME	11.94	-		A	<b>D</b> '' <b>F</b>
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	
Toluene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	-
Ethylbenzene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 18:22	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130				02/05/22 12:11	02/05/22 18:22	
1,4-Difluorobenzene (Surr)	93		70 - 130				02/05/22 12:11	02/05/22 18:22	î
Method: Total BTEX - Total B	<b>FEX Calcula</b>	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/22 10:09	1
					mg/Kg			02/10/22 10:09	1
Total BTEX Method: 8015 NM - Diesel Rai Analyte	nge Organic			MDL	mg/Kg <b>Unit</b>	D	Prepared	02/10/22 10:09 Analyzed	
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (O Qualifier	SC)	MDL	0 0	D	Prepared		Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH	nge Organic Result <50.0	s (DRO) (G Qualifier U	<b>BC)</b> <u>RL</u> <u>50.0</u>	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte	nge Organic Result <50.0 ange Organ	s (DRO) (G Qualifier U	<b>BC)</b> <u>RL</u> <u>50.0</u>		Unit	D D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	nge Organic Result <50.0 ange Organ	s (DRO) (O Qualifier U ics (DRO) Qualifier	GC) <u>RL</u> 50.0		Unit mg/Kg		<u>`</u>	Analyzed 02/10/22 09:32 Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organic Result <50.0 ange Organ Result	s (DRO) (C Qualifier U ics (DRO) Qualifier U	GC) <u>RL</u> 50.0 (GC) <u>RL</u>		Unit mg/Kg Unit		Prepared	Analyzed 02/10/22 09:32 Analyzed 02/07/22 03:18	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	nge Organic Result <50.0 ange Organ Result <50.0	s (DRO) (C Qualifier U ics (DRO) Qualifier U	GC) <u>RL</u> 50.0 (GC) <u>RL</u> 50.0		Unit mg/Kg Unit mg/Kg		Prepared 02/04/22 16:00 02/04/22 16:00	Analyzed 02/10/22 09:32 Analyzed 02/07/22 03:18	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organic Result <50.0 ange Organ Result <50.0 <50.0	s (DRO) (C Qualifier U ics (DRO) Qualifier U U	GC) <u>RL</u> 50.0 (GC) <u>RL</u> 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/04/22 16:00 02/04/22 16:00	Analyzed 02/10/22 09:32 Analyzed 02/07/22 03:18 02/07/22 03:18	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10	nge Organic Result <50.0 ange Organ Result <50.0 <50.0 <50.0	s (DRO) (C Qualifier U ics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/04/22 16:00 02/04/22 16:00 02/04/22 16:00	Analyzed 02/10/22 09:32 Analyzed 02/07/22 03:18 02/07/22 03:18 02/07/22 03:18	1 Dil Fac 1 Dil Fac 1 1 1 Dil Fac

**Eurofins Midland** 

5

#### Client Sample Results

Client: Etech Environmental & Safety Solutions Job ID: 880-10920-1 Project/Site: Lobo 285 SWD Water Reuse SDG: Rural Eddy Co, NM Client Sample ID: V2 @ 4' Lab Sample ID: 880-10920-4 Date Collected: 02/01/22 00:00 Matrix: Solid Date Received: 02/04/22 15:40 Sample Depth: 4 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 49.8 02/11/22 21:22 Chloride 7050 mg/Kg 10 Client Sample ID: V3 @ 0' Lab Sample ID: 880-10920-5 Date Collected: 02/01/22 00:00 Matrix: Solid Date Received: 02/04/22 15:40 Sample Depth: 0 Method: 8021B - Volatile Organic Compounds (GC) **Result Qualifier** MDL Unit Prepared Analyzed Analyte RL D Dil Fac 02/05/22 12:11 02/05/22 18:42 Benzene <0.00200 U 0.00200 mg/Kg 1 Toluene <0.00200 U 0.00200 mg/Kg 02/05/22 12:11 02/05/22 18:42 1 02/05/22 12:11 02/05/22 18:42 Ethylbenzene <0.00200 U 0.00200 mg/Kg 1 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 02/05/22 12:11 02/05/22 18:42 1 o-Xylene <0.00200 U 0.00200 mg/Kg 02/05/22 12:11 02/05/22 18:42 1 02/05/22 12:11 02/05/22 18:42 Xylenes, Total <0.00400 U 0.00400 mg/Kg 1 Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 117 70 - 130 02/05/22 12:11 02/05/22 18:42 1,4-Difluorobenzene (Surr) 81 70 - 130 02/05/22 12:11 02/05/22 18:42 **Method: Total BTEX - Total BTEX Calculation** MDL Unit Analyte **Result Qualifier** RL D Prepared Analyzed Dil Fac Total BTEX <0.00400 U 0.00400 mg/Kg 02/10/22 10:09 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) MDL Unit Analyte **Result Qualifier** RL D Prepared Analyzed Dil Fac **Total TPH** 440 50.0 mg/Kg 02/10/22 09:32 1 Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U 02/04/22 16:00 Gasoline Range Organics 50.0 02/07/22 03:39 mg/Kg (GRO)-C6-C10 50.0 02/04/22 16:00 02/07/22 03:39 **Diesel Range Organics (Over** 440 mg/Kg 1 C10-C28) <50.0 U Oll Range Organics (Over C28-C36) 50.0 mg/Kg 02/04/22 16:00 02/07/22 03:39 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 70 - 130 02/04/22 16:00 02/07/22 03:39 73 1 87 70 - 130 02/04/22 16:00 02/07/22 03:39 o-Terphenyl 1 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte **Result Qualifier** MDL RL Unit D Prepared Analyzed Dil Fac

**Eurofins Midland** 

20

02/14/22 09:18

Chloride

99.0

mg/Kg

27700

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Client Sample ID: V3 @ 4' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 4

#### Lab Sample ID: 880-10920-6

Matrix: Solid

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Method: 8021B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/05/22 12:11	02/05/22 19:03	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/05/22 12:11	02/05/22 19:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130				02/05/22 12:11	02/05/22 19:03	
1,4-Difluorobenzene (Surr)	91		70 - 130				02/05/22 12:11	02/05/22 19:03	
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/10/22 10:09	
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	
Method: 8015B NM - Diesel R	ange Organ	ics (DRO) (	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 03:59	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 03:59	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 03:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 03:59	
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 03:59	
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	10800		49.5		mg/Kg			02/11/22 21:41	10
lient Sample ID: NH B @	<b>0'</b>					L	ab Sample	e ID: 880-10	920-7
ate Collected: 02/01/22 00:00							-	Matrix	: Solid
ate Received: 02/04/22 15:40									
ample Depth: 0									
Method: 8021B - Volatile Orga									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202		0.00202		mg/Kg		02/05/22 12:11	02/05/22 19:23	
Toluene	<0.00202	U	0.00202		mg/Kg		02/05/22 12:11	02/05/22 19:23	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/05/22 12:11	02/05/22 19:23	
m-Xylene & p-Xylene	< 0.00403	U	0.00403		mg/Kg		02/05/22 12:11	02/05/22 19:23	

#### o-Xylene <0.00202 U 0.00202 02/05/22 12:11 02/05/22 19:23 mg/Kg Xylenes, Total <0.00403 U 0.00403 mg/Kg 02/05/22 12:11 02/05/22 19:23 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 130 70 - 130 02/05/22 12:11 02/05/22 19:23

**Eurofins Midland** 

1

1

1

Released to Imaging: 3/18/2024 9:58:55 AM

2/17/2022 (Rev. 2)

Client Sample ID: NH B @ 0'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Sample Depth: 0

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

**Diesel Range Organics (Over** 

Oll Range Organics (Over C28-C36)

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

Matrix: Solid

#### **Client Sample Results**

Limits

70 - 130

0.00403

RL

RL

RL

70 - 130

49.9

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Method: Total BTEX - Total BTEX Calculation

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier

**Result Qualifier** 

**Result Qualifier** 

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

0 S1-

0 S1-

80

<0.00403 U

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Analyzed

Analyzed

02/10/22 10:09

Analyzed

02/10/22 09:32

Analyzed

# Lab Sample ID: 880-10920-7

02/05/22 12:11 02/05/22 19:23

02/04/22 16:00 02/07/22 04:40

Lab Sample ID: 880-10920-8

Matrix: Solid

49.9	 mg/Kg	_	02/04/22 16:00	02/07/22 04:40	1	
40.0	11		00/04/00 40 00	00/07/00 04 40		
49.9	mg/Kg		02/04/22 16:00	02/07/22 04:40	1	
49.9	mg/Kg		02/04/22 16:00	02/07/22 04:40	1	
Limits			Prepared	Analyzed	Dil Fac	
70 - 130			02/04/22 16:00	02/07/22 04:40	1	

Prepared

Prepared

Prepared

Prepared

D

D

D

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.9	4.99	mg/Kg			02/11/22 21:51	1

# Client Sample ID: NH B @ 1'

# Mothod: 8021B - Volatilo Organic Compounds (CC)

**Eurofins Midland** 

-	Qualifier	
21.9		

#### Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				02/05/22 12:11	02/05/22 20:46	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/05/22 12:11	02/05/22 20:46	1
- Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/10/22 10:09	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte								/	

RL

49.9

49.9

49.9

RL

5.00

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

Prepared

Prepared

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

0 S1-

0 S1-

**Result Qualifier** 

0 S1-

46.1 F1

#### Client Sample ID: NH B @ 1' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 1

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

Sample Depth: 0

1-Chlorooctane

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client Sample ID: EH C @ 0'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

#### Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Analyzed

Analyzed

Analyzed

02/11/22 22:00

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Dil Fac

1

1

#### Lab Sample ID: 880-10920-8 Matrix: Solid

02/04/22 16:00 02/07/22 05:00

02/04/22 16:00 02/07/22 05:00

02/04/22 16:00 02/07/22 05:00

02/04/22 16:00 02/07/22 05:00

02/04/22 16:00 02/07/22 05:00

# Dil Fac 9 1 1 Dil Fac 1 1 1 20-9 1 Solid 1

Lab Sample ID: 880-10920-9 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				02/05/22 12:11	02/05/22 21:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/05/22 12:11	02/05/22 21:07	1
Method: Total BTEX - Total BT Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/10/22 10:09	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1
_ Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

**Eurofins Midland** 

02/04/22 16:00 02/07/22 05:20

**Released to Imaging: 3/18/2024 9:58:55 AM** 

o-Terphenyl

70 - 130

#### **Client Sample Results**

			Sample I	Kesuli	ts				
Client: Etech Environmental & Sa Project/Site: Lobo 285 SWD Wat		IS					SDG	Job ID: 880-1 6: Rural Eddy	
Client Sample ID: EH C @ Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 0	<b>) 0'</b>					L	ab Sample.	e ID: 880-10 Matrix	9 <b>20-9</b> c: Solid
_ Method: 300.0 - Anions, Ion C Analyte		phy - Solu Qualifier	ible RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		4.99		mg/Kg			02/11/22 22:29	1
Client Sample ID: EH C @ Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 1						La	ıb Sample	ID: 880-109 Matrix	9 <b>20-10</b> c: Solid
Method: 8021B - Volatile Orga						_	<b>_</b> .		
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
Ethylbenzene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
m-Xylene & p-Xylene	<0.00399		0.00399		mg/Kg			02/05/22 21:27	1
o-Xylene	<0.00200		0.00200		mg/Kg		02/05/22 12:11		1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/05/22 12:11	02/05/22 21:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130				02/05/22 12:11	02/05/22 21:27	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/22 10:09	1
Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/22 09:32	1
 Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg			02/07/22 05:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 05:40	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:40	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:40	1
_ Method: 300.0 - Anions, Ion C	Chromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.91		4.95		mg/Kg			02/11/22 22:39	1

**Eurofins Midland** 

Released to Imaging: 3/18/2024 9:58:55 AM

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Client Sample ID: SH D @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 0

#### Lab Sample ID: 880-10920-11

Matrix: Solid

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Method: 8021B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	
Toluene	< 0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	
Ethylbenzene	<0.00199		0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 21:48	
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 21:48	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	97		70 - 130				02/05/22 12:11	02/05/22 21:48	
1,4-Difluorobenzene (Surr)	81		70 - 130				02/05/22 12:11	02/05/22 21:48	
Method: Total BTEX - Total B									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	
Method: 8015 NM - Diesel Rai						_	<b>_</b> .		<b>_</b> –
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	
Method: 8015B NM - Diesel R			· · · · · · · · · · · · · · · · · · ·						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 06:01	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 06:01	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 06:01	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	70		70 - 130				02/04/22 16:00	02/07/22 06:01	
o-Terphenyl	75		70 - 130				02/04/22 16:00	02/07/22 06:01	
Method: 300.0 - Anions, Ion C	hromatogra	iphy - Solu	ble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	22.6		5.05		mg/Kg			02/14/22 09:28	
lient Sample ID: SH D @ ate Collected: 02/01/22 00:00 ate Received: 02/04/22 15:40 ample Depth: 1	9 <b>1'</b>					La	ab Sample	ID: 880-109 Matrix	
Method: 8021B - Volatile Orga							_		
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 22:08	
Toluene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 22:08	
Ethylbenzene	<0.00200		0.00200		mg/Kg		02/05/22 12:11	02/05/22 22:08	
m-Xylene & p-Xylene o-Xylene	<0.00399		0.00399		mg/Kg		02/05/22 12:11		
	< 0.00200		0.00200		mg/Kg		00/05/00 40.44	02/05/22 22:08	

Xylenes, Total <0.00399 U 0.00399 mg/Kg 02/05/22 12:11 02/05/22 22:08 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 90 70 - 130 02/05/22 12:11 02/05/22 22:08

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Released to Imaging: 3/18/2024 9:58:55 AM

2/17/2022 (Rev. 2)

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Lab Sample ID: 880-10920-12

#### Client Sample ID: SH D @ 1'

Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 1

Client: Etech Environmental & Safety Solutions

Project/Site: Lobo 285 SWD Water Reuse

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78	70 - 130			02/05/22 12:11	02/05/22 22:08	1
☐ Method: Total BTEX - Tota	al BTEX Calculation						
 Method: Total BTEX - Tota				_			
Method: Total BTEX - Tota Analyte	al BTEX Calculation Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

#### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/10/22 09:32	1

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 22:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 22:33	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				-	02/07/22 22:33	1
									1
o-Terphenyl	81		70 - 130				02/07/22 09:32	02/07/22 22:33	1

#### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		5.01		mg/Kg			02/11/22 23:17	1

#### Client Sample ID: WH E @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 0

# Lab Sample ID: 880-10920-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				02/05/22 12:11	02/05/22 22:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/05/22 12:11	02/05/22 22:29	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

1

02/10/22 09:32

Matrix: Solid

5

**Total TPH** 

49.9

mg/Kg

107

RL

49.9

49.9

49.9

RL

4.95

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

Prepared

Prepared

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.9 U

107

<49.9 U

%Recovery Qualifier

83

86

29.9

**Result Qualifier** 

#### Client Sample ID: WH E @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40 Sample Depth: 0

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

Sample Depth: 1

1-Chlorooctane

(GRO)-C6-C10

Gasoline Range Organics

**Diesel Range Organics (Over** 

Oll Range Organics (Over C28-C36)

Client Sample ID: WH E @ 1'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

#### Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Analyzed

Analvzed

Analyzed

02/11/22 23:27

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Dil Fac

1

1

Dil Fac

#### Lab Sample ID: 880-10920-13 Matrix: Solid

02/07/22 09:32 02/07/22 23:40

02/07/22 09:32 02/07/22 23:40

02/07/22 09:32 02/07/22 23:40

02/07/22 09:32 02/07/22 23:40

02/07/22 09:32 02/07/22 23:40

5

#### 1 1 Dil Fac 1 Lab Sample ID: 880-10920-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				02/05/22 12:11	02/05/22 22:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130				02/05/22 12:11	02/05/22 22:49	1
Method: Total BTEX - Total B	<b>FEX Calcula</b>	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/22 09:32	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/08/22 00:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/08/22 00:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/08/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	%Recovery 87	Qualifier	Limits 70 - 130				Prepared 02/07/22 09:32	Analyzed 02/08/22 00:00	Dil Fac

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Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Client Sample ID: WH E @ 1' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

Client: Etech Environmental & Safety Solutions

Project/Site: Lobo 285 SWD Water Reuse

	Sample Depth: 1										
Method: 300.0 - Anions, Ion Chromatography - Soluble										Ę	
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	22.4		4.97		mg/Kg			02/11/22 23:36	1	

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Lab Sample ID: 880-10920-14 Matrix: Solid 5
#### **Surrogate Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

		0504	-	ecovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	0FBZ1 /0-130)		5
880-10920-1	V1@0'		70		
880-10920-2	V1 @ 4'	116	71		6
880-10920-3	V2 @ 0'	139 S1+	120		
880-10920-4	V2 @ 4'	99	93		
880-10920-5	V3 @ 0'	117	81		
880-10920-6	V3 @ 4'	99	91		Q
880-10920-7	NH B @ 0'	130	80		0
880-10920-8	NH B @ 1'	95	92		0
880-10920-9	EH C @ 0'	115	110		3
880-10920-10	EH C @ 1'	110	91		
880-10920-11	SH D @ 0'	97	81		
880-10920-12	SH D @ 1'	90	78		
880-10920-13	WH E @ 0'	103	88		
880-10920-14	WH E @ 1'	108	98		
890-1903-A-1-C MS	Matrix Spike	108	103		
890-1903-A-1-D MSD	Matrix Spike Duplicate	105	103		
LCS 880-18627/1-A	Lab Control Sample	106	96		
LCSD 880-18627/2-A	Lab Control Sample Dup	127	110		
MB 880-18627/5-A	Method Blank	124	95		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 880-10920-1 V1 @ 0' 0 S1-0 S1-880-10920-2 V1 @ 4' 0 S1-0 S1-880-10920-3 V2 @ 0' 0 S1-0 S1-880-10920-4 V2 @ 4' 0 S1-0 S1-87 880-10920-5 V3 @ 0' 73 880-10920-6 V3 @ 4' 0 S1-0 S1-880-10920-7 NH B @ 0' 0 S1-0 S1-880-10920-8 NH B @ 1' 0 S1-0 S1-880-10920-9 0 S1-EH C @ 0' 0 S1-880-10920-10 EH C @ 1' 0 S1-0 S1-880-10920-11 75 SH D @ 0' 70 880-10920-12 SH D @ 1' 79 81 880-10920-12 MS SH D @ 1' 19 S1-65 S1-69 S1-880-10920-12 MSD 20 S1-SH D @ 1' 880-10920-13 WH E @ 0' 83 86 880-10920-14 87 91 WH E @ 1' 880-10926-A-7-D MS Matrix Spike 76 78 880-10926-A-7-E MSD 78 81 Matrix Spike Duplicate LCS 880-18603/2-A 95 Lab Control Sample 103 LCS 880-18664/2-A Lab Control Sample 18 S1-70

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Prep Type: Total/NA

#### **Surrogate Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Matrix: Solid

			Pe	rcent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
LCSD 880-18603/3-A	Lab Control Sample Dup	92	99		J
LCSD 880-18664/3-A	Lab Control Sample Dup	17 S1-	70		6
MB 880-18603/1-A	Method Blank	84	98		Ο
MB 880-18664/1-A	Method Blank	77	83		
Surragata Lagand					
Surrogate Legend					

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-10920-1

SDG: Rural Eddy Co, NM

Prep Type: Total/NA

Lab Sample ID: MB 880-18627/5-A

Matrix: Solid

#### QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Method: 8021B - Volatile Organic Compounds (GC)

#### Analysis Batch: 18625 MB MB Analyte **Result Qualifier** RL MDL Unit Prepared Analyzed Dil Fac D Benzene <0.00200 U 0.00200 mg/Kg 02/05/22 12:11 02/05/22 15:53 1 Toluene <0.00200 U 0.00200 mg/Kg 02/05/22 12:11 02/05/22 15:53 1 Ethylbenzene mg/Kg 02/05/22 12:11 02/05/22 15:53 <0.00200 U 0.00200 1 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 02/05/22 12:11 02/05/22 15:53 1 o-Xylene <0.00200 U 0.00200 mg/Kg 02/05/22 12:11 02/05/22 15:53 1 Xylenes, Total <0.00400 U 0.00400 mg/Kg 02/05/22 12:11 02/05/22 15:53 MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 124 02/05/22 12:11 02/05/22 15:53 1 1,4-Difluorobenzene (Surr) 95 70 - 130 02/05/22 12:11 02/05/22 15:53 1

#### Lab Sample ID: LCS 880-18627/1-A **Matrix: Solid** Analysis Batch: 18625

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07478		mg/Kg		75	70 - 130	
Toluene	0.100	0.07455		mg/Kg		75	70 - 130	
Ethylbenzene	0.100	0.07781		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	0.200	0.1596		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.07931		mg/Kg		79	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

#### Lab Sample ID: LCSD 880-18627/2-A Matrix: Solid

#### Analysis Batch: 18625

Analysis Batch: 18625							Prep E	atch: 1	18627
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07497		mg/Kg		75	70 - 130	0	35
Toluene	0.100	0.08063		mg/Kg		81	70 - 130	8	35
Ethylbenzene	0.100	0.08674		mg/Kg		87	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1773		mg/Kg		89	70 - 130	10	35
o-Xylene	0.100	0.08920		mg/Kg		89	70 - 130	12	35

	LCSD LCSD	
Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

#### Lab Sample ID: 890-1903-A-1-C MS Matrix: Solid

Analysis Batch: 18625										Batch: 18627
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0998	0.06369	F1	mg/Kg		63	70 - 130	
Toluene	<0.00200	U F1	0.0998	0.06529	F1	mg/Kg		65	70 - 130	

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Pren Type: Total/NA

**Client Sample ID: Matrix Spike** 

#### **Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 18627

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 18627

Client Sample ID	: Lab	Contro	l Samp	le Dup
		Prep T	ype: To	otal/NA

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	8-A-1-C MS						CI	ient Sa	mple ID: I		
Matrix: Solid									Prep Ty	-	
Analysis Batch: 18625	Comula	Comula	Cuilco	ме	ме				Rec.	Batch: '	18627
Ameliate	•	Sample	Spike	-	MS	11	-	0/ D	/		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene			0.0998	0.06927		mg/Kg		69	70 - 130		
m-Xylene & p-Xylene	<0.00399		0.200	0.1319	F1	mg/Kg		66	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.07255		mg/Kg		72	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	108		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								
Lab Sample ID: 890-1903 Matrix: Solid	3-A-1-D MSD					Client S	Samp	le ID: N	latrix Spil Prep Ty	pe: Tot	al/NA
Lab Sample ID: 890-1903 Matrix: Solid		Sample	Spike	MeD	MSD	Client S	Samp	le ID: N	Prep Ty Prep E		al/NA 18627
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625	Sample	Sample	Spike Added	MSD Result	MSD Qualifier				Prep Ty Prep E %Rec.	pe: Tot Batch: 7	al/NA 18627 RPD
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte	Sample Result	Qualifier	Added	Result	Qualifier	Unit	Samp	%Rec	Prep Ty Prep E %Rec. Limits	pe: Tot Batch: 7	al/NA 18627 RPD Limit
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte Benzene	Sample 	Qualifier U F1	Added	<b>Result</b> 0.06662	Qualifier F1	Unit mg/Kg		<b>%Rec</b>	Prep Ty Prep E %Rec. Limits 70 - 130	pe: Tot Batch: 7 RPD 4	al/NA 18627 RPD Limit 35
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte Benzene Toluene	Sample Result <0.00200 <0.00200	Qualifier U F1 U F1	Added	<b>Result</b> 0.06662 0.06699	Qualifier F1 F1	<mark>Unit</mark> mg/Kg mg/Kg		%Rec 66 66	Prep Ty Prep E %Rec. Limits 70 - 130 70 - 130	pe: Tot Batch: 7 RPD 4 3	al/NA 18627 RPD Limit 35 35
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00200 <0.00200 <0.00200	Qualifier U F1 U F1 U F1 U F1	Added 0.100 0.100 0.100	Result 0.06662 0.06699 0.06954	Qualifier F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 66 66 69	Prep Ty           Prep E           %Rec.           Limits           70 - 130           70 - 130           70 - 130	pe: Tot Batch: 7 <u>RPD</u> 4 3 0	al/NA 18627 RPD Limit 35 35 35
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00200 <0.00200 <0.00200 <0.00399	Qualifier U F1 U F1 U F1 U F1 U F1	Added 0.100 0.100 0.100 0.200	Result 0.06662 0.06699 0.06954 0.1429	Qualifier F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 66 66 69 71	Prep Ty Prep E %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 7 RPD 4 3	al/NA 18627 RPD Limit 35 35 35 35
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625	Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200	Qualifier U F1 U F1 U F1 U F1 U F1 U	Added 0.100 0.100 0.100	Result 0.06662 0.06699 0.06954	Qualifier F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 66 66 69	Prep Ty           Prep E           %Rec.           Limits           70 - 130           70 - 130           70 - 130	pe: Tot Batch: 7 4 3 0 8	al/NA 18627 RPD Limit 35 35 35
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 MSD	Qualifier U F1 U F1 U F1 U F1 U F1 U U MSD	Added 0.100 0.100 0.100 0.200	Result 0.06662 0.06699 0.06954 0.1429	Qualifier F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 66 66 69 71	Prep Ty Prep E %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 7 4 3 0 8	al/NA 18627 RPD Limit 35 35 35 35
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <i>MSD</i> %Recovery	Qualifier U F1 U F1 U F1 U F1 U F1 U U MSD	Added 0.100 0.100 0.100 0.200 0.100 Limits	Result 0.06662 0.06699 0.06954 0.1429	Qualifier F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 66 66 69 71	Prep Ty Prep E %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 7 4 3 0 8	al/NA 18627 RPD Limit 35 35 35 35
Lab Sample ID: 890-1903 Matrix: Solid Analysis Batch: 18625 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 MSD	Qualifier U F1 U F1 U F1 U F1 U F1 U U MSD	Added 0.100 0.100 0.100 0.200 0.100	Result 0.06662 0.06699 0.06954 0.1429	Qualifier F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 66 66 69 71	Prep Ty Prep E %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 7 4 3 0 8	al/NA 18627 RPD Limit 35 35 35 35

#### Lab Sample ID: MB 880-18603/1-A Matrix: Solid Analysis Batch: 18649

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/04/22 14:40	02/06/22 23:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/22 14:40	02/06/22 23:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/22 14:40	02/06/22 23:15	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	98		70 - 130

#### Lab Sample ID: LCS 880-18603/2-A Matrix: Solid Analysis Batch: 18649

Analysis Batch: 18649							Prep B	atch: 18603
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	827.6		mg/Kg		83	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1127		mg/Kg		113	70 - 130	
C10-C28)								

**Eurofins Midland** 

Prep Type: Total/NA

1

1

**Client Sample ID: Method Blank** 

02/04/22 14:40 02/06/22 23:15

02/04/22 14:40 02/06/22 23:15

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 18603

5

7

#### Released to Imaging: 3/18/2024 9:58:55 AM

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Lab Sample ID: LCS 880-18603/2-A

**Matrix: Solid** 

Analysis Batch: 18649

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

			JUD ID.			
		SD	G: Rural I	Eddy Co	o, NM	2
I)						3
Clien	t Sar	nple ID	: Lab Cor	ntrol Sa	mple	
		÷	Prep Ty	pe: Tot	al/NA	4
			Prep	Batch: 1	10003	5
						6
nt Sar	nple	ID: Lab		Sample	e Dup	7
			Prep Ty		al/NA	8
nit	D	%Rec	%Rec. Limits	RPD	RPD Limit	9
g/Kg		83	70 - 130	1	20	10
g/Kg		116	70 - 130	3	20	11
						12
						13
	CI	ient Sa	mple ID: I Prep Ty Prep E %Rec.		al/NA	14
nit	D	%Rec	Limits			
g/Kg		76	70 - 130			
g/Kg		86	70 - 130			

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	95		70 - 130							
o-Terphenyl	103		70 - 130							
Lab Sample ID: LCSD 88	0-18603/3-A				(	Client Sa	mple	ID: Lat	o Control	Sample
Matrix: Solid									Prep Ty	
Analysis Batch: 18649										Batch: 1
····· <b>,</b> ·····			Spike	LCSD	LCSD				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics			1000	834.3		mg/Kg		83	70 - 130	1
(GRO)-C6-C10						0 0				
Diesel Range Organics (Over			1000	1160		mg/Kg		116	70 - 130	3
C10-C28)										
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	92		70 - 130							
o-Terphenyl	99		70 - 130							
Lab Sample ID: 880-1092	6-A-7-D MS						CI	ient Sa	mple ID: I	Matrix S
Matrix: Solid									Prep Ty	
Analysis Batch: 18649										Batch: 1
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	788.1		mg/Kg		76	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	1000	882.1		mg/Kg		86	70 - 130	
C10-C28)										
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	76		70 - 130							
o-Terphenyl	78		70 - 130							
Lab Sample ID: 880-1092	6-A-7-E MSC	)				Client S	Samp	le ID: N	Aatrix Spil	ke Dupli
Matrix: Solid									Prep Ty	

#### Analysis Batch: 18649 Prep Batch: 18603 Sample Sample Spike MSD MSD %Rec. RPD **Result Qualifier** Result Qualifier Analyte Added Unit D %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 998 813.1 mg/Kg 79 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 921.8 mg/Kg 90 70 - 130 4 20 C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	81		70 - 130

**Duplicate** e: Total/NA

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-186	564/1-A									Clie		le ID: Me		
Matrix: Solid												Prep Typ	e: Tot	al/N/
Analysis Batch: 18758												Prep Ba		
		MB	MB											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Р	repared	Analyze	bd	Dil Fa
Gasoline Range Organics	<	50.0	U	50.0			mg/K	<u></u>	—	02/0	7/22 09:32	02/07/22 2		
GRO)-C6-C10								5						
Diesel Range Organics (Over	<	50.0	U	50.0			mg/K	9		02/0	7/22 09:32	02/07/22 2	1:28	
C10-C28)							•							
Oll Range Organics (Over C28-C36)	) <	50.0	U	50.0			mg/K	9		02/0	7/22 09:32	02/07/22 2	1:28	
			140											
S	0/ <b>D</b> = = =		MB	1 incide								A		
Surrogate	%Reco	-	Qualifier	Limits						-	repared	Analyze		Dil Fa
1-Chlorooctane		77		70 - 130								02/07/22 2		
p-Terphenyl		83		70 - 130						02/0	7/22 09:32	02/07/22 2	1:28	
Lab Sample ID: LCS 880-18	66A/2-A							Clie	nt	Sar	nnio ID:	Lab Cont	rol S	mnl
Matrix: Solid	004/2-4							Un		Jai		Prep Typ		
Analysis Batch: 18758												Prep Ba		
Analysis Batch. 10750				Spika	LCS	1.00						%Rec.	aton.	1000
Analyta				Spike Added	Result			Unit		D	%Rec	Limits		
Analyte				1000		Qua	inter							
Gasoline Range Organics GRO)-C6-C10				1000	750.9			mg/Kg			75	70 - 130		
Diesel Range Organics (Over				1000	940.8			mg/Kg			94	70 - 130		
C10-C28)				1000	340.0			iiig/itg			34	10-150		
510 020)														
	LCS													
Surrogate	%Recovery		lifier	Limits										
1-Chlorooctane	18	S1-		70 - 130										
p-Terphenyl	70			70 - 130										
Leh Comple ID: LCCD 880 (							~	lient C	-			Control C	omal	. D
Lab Sample ID: LCSD 880-1	10004/J-A						U U	ilent 5	an	pie		Control S		
Matrix: Solid												Prep Typ		
Analysis Batch: 18758							_					Prep Ba %Rec.	atcn:	1866
						1 00								
Analyte				Spike	LCSD			11		-	0/ <b>D</b>			RP
				Added	Result			Unit		D	%Rec	Limits	RPD	RP Lim
								Unit mg/Kg		D			<b>RPD</b> 2	RP Lim
GRO)-C6-C10				Added	<b>Result</b> 766.9			mg/Kg		D	77	Limits 70 - 130	2	RP Lim
GRO)-C6-C10 Diesel Range Organics (Over				Added	Result					D	77	Limits		RP Lim
GRO)-C6-C10 Diesel Range Organics (Over				Added	<b>Result</b> 766.9			mg/Kg		<u>D</u>	77	Limits 70 - 130	2	RP Lim
GRO)-C6-C10 Diesel Range Organics (Over	LCSD	LCS	 SD	Added	<b>Result</b> 766.9			mg/Kg		D	77	Limits 70 - 130	2	RP Lim
GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery	Qua		Added 1000 1000 Limits	<b>Result</b> 766.9			mg/Kg		<u>D</u>	77	Limits 70 - 130	2	RP Lim 2
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) <b>Surrogate</b> 1-Chlorooctane	%Recovery			Added 1000 1000	<b>Result</b> 766.9			mg/Kg		D	77	Limits 70 - 130	2	<b>RP</b> <u>Lim</u> 2 2
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	%Recovery	Qua		Added 1000 1000 Limits	<b>Result</b> 766.9			mg/Kg		<u>D</u>	77	Limits 70 - 130	2	RP Lim 2
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	%Recovery 17 70	Qua		Added 1000 1000 <i>Limits</i> 70 - 130	<b>Result</b> 766.9			mg/Kg		<u>D</u>	77	Limits 70 - 130	2	RP Lim 2
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-10920-	%Recovery 17 70	Qua		Added 1000 1000 <i>Limits</i> 70 - 130	<b>Result</b> 766.9			mg/Kg			92 Client S	Limits 70 - 130 70 - 130	2 2 : SH [	RP 
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Gurrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-10920- Matrix: Solid	%Recovery 17 70	Qua		Added 1000 1000 <i>Limits</i> 70 - 130	<b>Result</b> 766.9			mg/Kg			92 Client S	Limits 70 - 130 70 - 130	2 2 : SH [	RP 
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-10920- Matrix: Solid	%Recovery 17 70	Qua		Added 1000 1000 <i>Limits</i> 70 - 130	<b>Result</b> 766.9			mg/Kg			92 Client S	Limits 70 - 130 70 - 130	2 2 : SH [ e: Tot	RP 2 2 2 2 3 3 3 3 3 3 3 3 3 2 2 3 2 3 2
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate Chlorooctane Terphenyl Lab Sample ID: 880-10920- Matrix: Solid	%Recovery 17 70	Qua S1-	lifier	Added 1000 1000 <i>Limits</i> 70 - 130	Result 766.9 924.5			mg/Kg			92 Client S	Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	2 2 : SH [ e: Tot	RP 
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-10920- Matrix: Solid Analysis Batch: 18758	%Recovery 17 70 12 MS	Qua S1-	nlifier	Added 1000 1000 Limits 70 - 130 70 - 130	Result 766.9 924.5	Qua	lifier_	mg/Kg			92 Client S	Limits 70 - 130 70 - 130	2 2 : SH [ e: Tot	RP 2 2 2 2 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 880-10920- Matrix: Solid Analysis Batch: 18758 Analyte	%Recovery 17 70 12 MS Sample	Qua S1- San Qua	nlifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b>	<b>Result</b> 766.9 924.5 <b>MS</b>	Qua	lifier_	mg/Kg mg/Kg			 92 Client S	Limits 70 - 130 70 - 130 Prep Typ Prep Ba %Rec.	2 2 : SH [ e: Tot	RP 2 2 2 2 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) <b>Surrogate</b>	%Recovery 17 70 12 MS Sample Result	Qua S1- San Qua	nlifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	Result           766.9           924.5           MS           Result	Qua	lifier_	mg/Kg mg/Kg Unit			 92 Client S	Limits 70 - 130 70 - 130 Prep Typ Prep Ba %Rec. Limits	2 2 : SH [ e: Tot	RP 2 2 2 2 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate Chlorooctane Terphenyl Lab Sample ID: 880-10920- Matrix: Solid Analysis Batch: 18758 Malyte Gasoline Range Organics	%Recovery 17 70 12 MS Sample Result	Qua S1- San Qua U	nlifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	Result           766.9           924.5           MS           Result	Qua	lifier_	mg/Kg mg/Kg Unit			77 92 Client S <u>%Rec</u> 96	Limits 70 - 130 70 - 130 Prep Typ Prep Ba %Rec. Limits	2 2 : SH [ e: Tot	RP Lim 2 2 3 6 al/N

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Lab Sample ID: 880-10920-12 MS

Lab Sample ID: 880-10920-12 MSD

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

**Analysis Batch: 18758** 

Analysis Batch: 18758

Gasoline Range Organics

**Diesel Range Organics (Over** 

#### QC Sample Results

Limits

70 - 130

70 - 130

Spike

Added

998

998

Limits

70 - 130

70 - 130

MSD MSD

926.0

1065

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

88

104

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

19 S1-

65 S1-

Sample Sample

<50.0 U

<50.0 U

MSD MSD

20 S1-

69 S1-

%Recovery Qualifier

**Result Qualifier** 

%Recovery Qualifier

Client Sample ID: SH D @ 1'

Client Sample ID: SH D @ 1'

%Rec.

Limits

70 - 130

70 - 130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 18664

RPD

8

8

RPD

Limit

20

20

Prep Batch: 18664

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18571/1-A Matrix: Solid Analysis Batch: 18734									CI	ie	nt Sam	ple ID: M Prep Ty		
Analysis Datch. 10734	МВ	МВ												
Analyte		Qualifier		RL		MDL	Unit		D	Pr	epared	Analyz	ed	Dil Fac
Chloride	<5.00	U		5.00			mg/Kg	]			•	02/11/22	19:24	1
- Lab Sample ID: LCS 880-18571/2-A								Clie	ent Sa	an	nple ID:	: Lab Cor	trol Sa	ample
Matrix: Solid											•	Prep Ty		
Analysis Batch: 18734													•	
			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qua	lifier	Unit	0	2	%Rec	Limits		
Chloride			250		272.5			mg/Kg			109	90 - 110		
Lab Sample ID: LCSD 880-18571/3-	A						С	lient S	ampl	e l	D: Lab	Control	Sampl	e Dup
Matrix: Solid												Prep Ty	/pe: So	oluble
Analysia Potoby 19724														
Analysis Batch: 18734														
Analysis Datch. 10734			Spike		LCSD	LCS	D					%Rec.		RPD
Analysis Balch. 10734			Spike Added		LCSD Result			Unit		5	%Rec	%Rec. Limits	RPD	
-			•		-			Unit mg/Kg	[	)	<b>%Rec</b>		<b>RPD</b>	RPD
Analyte Chloride			Added		Result				[		108	<b>Limits</b> 90 - 110	1	RPD Limit 20
Analyte			Added		Result				<u>[</u>		108	Limits 90 - 110 Sample IC	1 1 0: NH E	RPD Limit 20 3 @ 1'
Analyte Chloride Lab Sample ID: 880-10920-8 MS Matrix: Solid			Added		Result				<u>[</u>		108	<b>Limits</b> 90 - 110	1 1 0: NH E	RPD Limit 20 3 @ 1'
Analyte Chloride Lab Sample ID: 880-10920-8 MS Matrix: Solid Analysis Batch: 18734		nple	Added		Result 270.5				[		108	Limits 90 - 110 Sample IC	1 1 0: NH E	RPD Limit 20 3 @ 1'
Analyte Chloride Lab Sample ID: 880-10920-8 MS Matrix: Solid Analysis Batch: 18734 Sam	 ole Sar ult Qua	•	Added 250		Result 270.5	Qual	lifier				108	Limits 90 - 110 Sample ID Prep Ty	1 1 0: NH E	RPD Limit 20 3 @ 1'

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Analysis Batch: 18734       Sample Sample       Spike       MSD       %Rec.       RPD         nalyte       Result Qualifier       Added       Result Qualifier       Unit       D       %Rec.       RPD	ab Sample ID: 880-10 Iatrix: Solid	920-8 MSD							Client	Sample IE Prep Ty			
nalyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit			Sample	Spike	MSD	MSD							Ī
hloride 46.1 F1 250 327.4 F1 mg/Kg 1113 90-110 0 20	nalyte				Result	Qualifier	Unit	D	%Rec		RPD	Limit	
	hloride	46.1	F1	250	327.4	F1	mg/Kg		113	90 - 110	0	20	

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### GC VOA

#### Analysis Batch: 18625

Analysis Batch: 1862	25				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	8021B	18627
880-10920-2	V1 @ 4'	Total/NA	Solid	8021B	18627
880-10920-3	V2 @ 0'	Total/NA	Solid	8021B	18627
880-10920-4	V2 @ 4'	Total/NA	Solid	8021B	18627
880-10920-5	V3 @ 0'	Total/NA	Solid	8021B	18627
880-10920-6	V3 @ 4'	Total/NA	Solid	8021B	18627
880-10920-7	NH B @ 0'	Total/NA	Solid	8021B	18627
880-10920-8	NH B @ 1'	Total/NA	Solid	8021B	18627
880-10920-9	EH C @ 0'	Total/NA	Solid	8021B	18627
880-10920-10	EH C @ 1'	Total/NA	Solid	8021B	18627
880-10920-11	SH D @ 0'	Total/NA	Solid	8021B	18627
880-10920-12	SH D @ 1'	Total/NA	Solid	8021B	18627
880-10920-13	WH E @ 0'	Total/NA	Solid	8021B	18627
880-10920-14	WH E @ 1'	Total/NA	Solid	8021B	18627
MB 880-18627/5-A	Method Blank	Total/NA	Solid	8021B	18627
LCS 880-18627/1-A	Lab Control Sample	Total/NA	Solid	8021B	18627
LCSD 880-18627/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18627
890-1903-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	18627
890-1903-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18627

#### Prep Batch: 18627

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	5035	
880-10920-2	V1 @ 4'	Total/NA	Solid	5035	
880-10920-3	V2 @ 0'	Total/NA	Solid	5035	
880-10920-4	V2 @ 4'	Total/NA	Solid	5035	
880-10920-5	V3 @ 0'	Total/NA	Solid	5035	
880-10920-6	V3 @ 4'	Total/NA	Solid	5035	
880-10920-7	NH B @ 0'	Total/NA	Solid	5035	
880-10920-8	NH B @ 1'	Total/NA	Solid	5035	
880-10920-9	EH C @ 0'	Total/NA	Solid	5035	
880-10920-10	EH C @ 1'	Total/NA	Solid	5035	
880-10920-11	SH D @ 0'	Total/NA	Solid	5035	
880-10920-12	SH D @ 1'	Total/NA	Solid	5035	
880-10920-13	WH E @ 0'	Total/NA	Solid	5035	
880-10920-14	WH E @ 1'	Total/NA	Solid	5035	
MB 880-18627/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18627/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18627/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1903-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1903-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 19024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	Total BTEX	
880-10920-2	V1 @ 4'	Total/NA	Solid	Total BTEX	
880-10920-3	V2 @ 0'	Total/NA	Solid	Total BTEX	
880-10920-4	V2 @ 4'	Total/NA	Solid	Total BTEX	
880-10920-5	V3 @ 0'	Total/NA	Solid	Total BTEX	
880-10920-6	V3 @ 4'	Total/NA	Solid	Total BTEX	
880-10920-7	NH B @ 0'	Total/NA	Solid	Total BTEX	

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

GC VOA (Continued)

#### Analysis Batch: 19024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-8	NH B @ 1'	Total/NA	Solid	Total BTEX	
880-10920-9	EH C @ 0'	Total/NA	Solid	Total BTEX	
880-10920-10	EH C @ 1'	Total/NA	Solid	Total BTEX	
880-10920-11	SH D @ 0'	Total/NA	Solid	Total BTEX	
880-10920-12	SH D @ 1'	Total/NA	Solid	Total BTEX	
880-10920-13	WH E @ 0'	Total/NA	Solid	Total BTEX	
880-10920-14	WH E @ 1'	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 18603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-10920-1	V1 @ 0'	Total/NA	Solid	8015NM Prep		
880-10920-2	V1 @ 4'	Total/NA	Solid	8015NM Prep		
880-10920-3	V2 @ 0'	Total/NA	Solid	8015NM Prep		
880-10920-4	V2 @ 4'	Total/NA	Solid	8015NM Prep		
880-10920-5	V3 @ 0'	Total/NA	Solid	8015NM Prep		
880-10920-6	V3 @ 4'	Total/NA	Solid	8015NM Prep		
880-10920-7	NH B @ 0'	Total/NA	Solid	8015NM Prep		
880-10920-8	NH B @ 1'	Total/NA	Solid	8015NM Prep		
880-10920-9	EH C @ 0'	Total/NA	Solid	8015NM Prep		
880-10920-10	EH C @ 1'	Total/NA	Solid	8015NM Prep		
880-10920-11	SH D @ 0'	Total/NA	Solid	8015NM Prep		
MB 880-18603/1-A	Method Blank	Total/NA	Solid	8015NM Prep		
LCS 880-18603/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep		
LCSD 880-18603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep		
880-10926-A-7-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep		
880-10926-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep		

#### Analysis Batch: 18649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-2	V1 @ 4'	Total/NA	Solid	8015B NM	18603
880-10920-3	V2 @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-4	V2 @ 4'	Total/NA	Solid	8015B NM	18603
880-10920-5	V3 @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-6	V3 @ 4'	Total/NA	Solid	8015B NM	18603
880-10920-7	NH B @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-8	NH B @ 1'	Total/NA	Solid	8015B NM	18603
880-10920-9	EH C @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-10	EH C @ 1'	Total/NA	Solid	8015B NM	18603
880-10920-11	SH D @ 0'	Total/NA	Solid	8015B NM	18603
MB 880-18603/1-A	Method Blank	Total/NA	Solid	8015B NM	18603
LCS 880-18603/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18603
LCSD 880-18603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18603
880-10926-A-7-D MS	Matrix Spike	Total/NA	Solid	8015B NM	18603
880-10926-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18603
Prep Batch: 18664					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-12	SH D @ 1'	Total/NA	Solid	8015NM Prep	

**Eurofins Midland** 

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Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Prep Type

Matrix

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

**Client Sample ID** 

#### GC Semi VOA (Continued)

#### Prep Batch: 18664 (Continued)

Lab Sample ID

		1100 1900	matrix	mounou	i i op Buton
880-10920-13	WH E @ 0'	Total/NA	Solid	8015NM Prep	
880-10920-14	WH E @ 1'	Total/NA	Solid	8015NM Prep	
MB 880-18664/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18664/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
_CSD 880-18664/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
380-10920-12 MS	SH D @ 1'	Total/NA	Solid	8015NM Prep	
380-10920-12 MSD	SH D @ 1'	Total/NA	Solid	8015NM Prep	
nalysis Batch: 187	58				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-10920-12	SH D @ 1'	Total/NA	Solid	8015B NM	18664
380-10920-13	WH E @ 0'	Total/NA	Solid	8015B NM	18664
380-10920-14	WH E @ 1'	Total/NA	Solid	8015B NM	18664
MB 880-18664/1-A	Method Blank	Total/NA	Solid	8015B NM	18664
LCS 880-18664/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18664
LCSD 880-18664/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18664
880-10920-12 MS	SH D @ 1'	Total/NA	Solid	8015B NM	18664
880-10920-12 MSD	SH D @ 1'	Total/NA	Solid	8015B NM	18664
nalysis Batch: 1900	08				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-10920-1	V1 @ 0'	Total/NA	Solid	8015 NM	
880-10920-2	V1 @ 4'	Total/NA	Solid	8015 NM	
880-10920-3	V2 @ 0'	Total/NA	Solid	8015 NM	
880-10920-4	V2 @ 4'	Total/NA	Solid	8015 NM	
880-10920-5	V3 @ 0'	Total/NA	Solid	8015 NM	
		Total/NA	Solid	8015 NM	
880-10920-6	V3 @ 4'	IUlai/INA	Cond		
	v 3 @ 4' NH B @ 0'	Total/NA	Solid	8015 NM	
880-10920-6 880-10920-7 880-10920-8					

#### Г

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	8015 NM	
880-10920-2	V1 @ 4'	Total/NA	Solid	8015 NM	
880-10920-3	V2 @ 0'	Total/NA	Solid	8015 NM	
880-10920-4	V2 @ 4'	Total/NA	Solid	8015 NM	
880-10920-5	V3 @ 0'	Total/NA	Solid	8015 NM	
880-10920-6	V3 @ 4'	Total/NA	Solid	8015 NM	
880-10920-7	NH B @ 0'	Total/NA	Solid	8015 NM	
880-10920-8	NH B @ 1'	Total/NA	Solid	8015 NM	
880-10920-9	EH C @ 0'	Total/NA	Solid	8015 NM	
880-10920-10	EH C @ 1'	Total/NA	Solid	8015 NM	
880-10920-11	SH D @ 0'	Total/NA	Solid	8015 NM	
880-10920-12	SH D @ 1'	Total/NA	Solid	8015 NM	
880-10920-13	WH E @ 0'	Total/NA	Solid	8015 NM	
880-10920-14	WH E @ 1'	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 18571

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Soluble	Solid	DI Leach	
880-10920-2	V1 @ 4'	Soluble	Solid	DI Leach	
880-10920-3	V2 @ 0'	Soluble	Solid	DI Leach	
880-10920-4	V2 @ 4'	Soluble	Solid	DI Leach	
880-10920-5	V3 @ 0'	Soluble	Solid	DI Leach	
880-10920-6	V3 @ 4'	Soluble	Solid	DI Leach	
880-10920-7	NH B @ 0'	Soluble	Solid	DI Leach	
880-10920-8	NH B @ 1'	Soluble	Solid	DI Leach	
880-10920-9	EH C @ 0'	Soluble	Solid	DI Leach	
880-10920-10	EH C @ 1'	Soluble	Solid	DI Leach	
880-10920-11	SH D @ 0'	Soluble	Solid	DI Leach	

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Prep Batch

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Method

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Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

HPLC/IC (Continued)

#### Leach Batch: 18571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-12	SH D @ 1'	Soluble	Solid	DI Leach	
880-10920-13	WH E @ 0'	Soluble	Solid	DI Leach	
880-10920-14	WH E @ 1'	Soluble	Solid	DI Leach	
MB 880-18571/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18571/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18571/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10920-8 MS	NH B @ 1'	Soluble	Solid	DI Leach	
880-10920-8 MSD	NH B @ 1'	Soluble	Solid	DI Leach	

#### Analysis Batch: 18734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1@0'	Soluble	Solid	300.0	18571
880-10920-2	V1 @ 4'	Soluble	Solid	300.0	18571
880-10920-3	V2 @ 0'	Soluble	Solid	300.0	18571
880-10920-4	V2 @ 4'	Soluble	Solid	300.0	18571
880-10920-5	V3 @ 0'	Soluble	Solid	300.0	18571
880-10920-6	V3 @ 4'	Soluble	Solid	300.0	18571
880-10920-7	NH B @ 0'	Soluble	Solid	300.0	18571
880-10920-8	NH B @ 1'	Soluble	Solid	300.0	18571
880-10920-9	EH C @ 0'	Soluble	Solid	300.0	18571
880-10920-10	EH C @ 1'	Soluble	Solid	300.0	18571
880-10920-11	SH D @ 0'	Soluble	Solid	300.0	18571
880-10920-12	SH D @ 1'	Soluble	Solid	300.0	18571
880-10920-13	WH E @ 0'	Soluble	Solid	300.0	18571
880-10920-14	WH E @ 1'	Soluble	Solid	300.0	18571
MB 880-18571/1-A	Method Blank	Soluble	Solid	300.0	18571
LCS 880-18571/2-A	Lab Control Sample	Soluble	Solid	300.0	18571
LCSD 880-18571/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18571
880-10920-8 MS	NH B @ 1'	Soluble	Solid	300.0	18571
880-10920-8 MSD	NH B @ 1'	Soluble	Solid	300.0	18571

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## Job ID: 880-10920-1

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SDG: Rural Eddy Co, NM

#### Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

#### Client Sample ID: V1 @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 17:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 02:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		20			18734	02/11/22 20:34	СН	XEN MID

#### Lab Sample ID: 880-10920-2 Matrix: Solid

Lab Sample ID: 880-10920-3

Lab Sample ID: 880-10920-4

Matrix: Solid

#### Client Sample ID: V1 @ 4' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 17:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 02:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		5			18734	02/11/22 20:44	СН	XEN MID

#### Client Sample ID: V2 @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 17:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	18603 18649	02/04/22 16:00 02/07/22 02:58		XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		5	4.96 g	50 mL	18571 18734	02/04/22 16:00 02/14/22 09:08		XEN MID XEN MID

#### Client Sample ID: V2 @ 4' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 18:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID

**Eurofins Midland** 

Matrix: Solid

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#### Released to Imaging: 3/18/2024 9:58:55 AM

2/17/2022 (Rev. 2)

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Lab Sample ID: 880-10920-1 Matrix: Solid

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Client Sample ID: V2 @ 4' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	18603 18649	02/04/22 16:00 02/07/22 03:18		XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		10	5.02 g	50 mL	18571 18734	02/04/22 16:00 02/11/22 21:22		XEN MID XEN MID

#### Client Sample ID: V3 @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 18:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 03:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		20			18734	02/14/22 09:18	СН	XEN MID

#### Client Sample ID: V3 @ 4' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 19:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 03:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		10			18734	02/11/22 21:41	СН	XEN MID

#### Client Sample ID: NH B @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

Prep Type Total/NA Total/NA	Batch Type Prep Analysis	Batch Method 5035 8021B	Run	Dil Factor	Initial Amount 4.96 g 5 mL	Final Amount 5 mL 5 mL	Batch Number 18627 18625	Prepared or Analyzed 02/05/22 12:11 02/05/22 19:23	<b>Analyst</b> MR KL	Lab XEN MID XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	18603 18649	02/04/22 16:00 02/07/22 04:40		XEN MID XEN MID

**Eurofins Midland** 

Matrix: Solid

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## Lab Sample ID: 880-10920-4

Lab Sample ID: 880-10920-5

Lab Sample ID: 880-10920-6

Lab Sample ID: 880-10920-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Released to Imaging: 3/18/2024 9:58:55 AM

Matrix: Solid

#### Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Lab Sample ID: 880-10920-7

#### Client Sample ID: NH B @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

Prep Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 21:51	СН	XEN MID

#### Client Sample ID: NH B @ 1' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 20:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 05:00	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 22:00	СН	XEN MID

#### Client Sample ID: EH C @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 21:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 05:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 22:29	СН	XEN MID

#### Client Sample ID: EH C @ 1' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

#### Lab Sample ID: 880-10920-10 Matrix: Solid

Lab Sample ID: 880-10920-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 21:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18603	02/04/22 16:00		XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 05:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 22:39	СН	XEN MID

**Eurofins Midland** 

Lab Sample ID: 880-10920-8 Matrix: Solid

9

#### Lab Chronicle

Initial

Amount

5.02 g

5 mL

10.02 g

4.95 g

Dil

1

1

1

1

1

Factor

Run

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

#### Client Sample ID: SH D @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Lab

XEN MID

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Lab Sample ID: 880-10920-11 Matrix: Solid

Analyst

MR

Prepared

or Analyzed

02/05/22 12:11

02/05/22 21:48 KL

02/10/22 10:09 AJ

02/10/22 09:32 AJ

02/04/22 16:00 DM

02/07/22 06:01 AJ 02/04/22 16:00 CH

02/14/22 09:28 CH

Batch

18627

18625

19024

19008

18603

18649

18571

18734

Number

Final

Amount

5 mL

5 mL

10 mL

50 mL

#### Lab Sample ID: 880-10920-12 Matrix: Solid

Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

Client Sample ID: SH D @ 1'

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 22:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18664	02/07/22 09:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18758	02/07/22 22:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 23:17	СН	XEN MID

#### Client Sample ID: WH E @ 0' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 22:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g	10 mL	18664 18758	02/07/22 09:32 02/07/22 23:40		XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.05 g	50 mL	18571 18734	02/04/22 16:00 02/11/22 23:27		XEN MID XEN MID

#### Client Sample ID: WH E @ 1' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 22:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID

**Eurofins Midland** 

Matrix: Solid

#### Lab Sample ID: 880-10920-13 Matrix: Solid

Lab Sample ID: 880-10920-14

Released to Imaging: 3/18/2024 9:58:55 AM

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Lab Sample ID: 880-10920-14

#### Client Sample ID: WH E @ 1' Date Collected: 02/01/22 00:00 Date Received: 02/04/22 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18664	02/07/22 09:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18758	02/08/22 00:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18571	02/04/22 16:00	СН	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 23:36	СН	XEN MID

#### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Matrix: Solid

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#### **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

#### Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Pr	ogram	Identification Number	Expiration Date
exas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this read	ort but the laboratory is r	ot certified by the governing authority.	This list may include analytes for which
the agency does not o	•		of certified by the governing autionty.	
• •	•	Matrix	Analyte	
the agency does not o	offer certification.			

**Eurofins Midland** 

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#### **Method Summary**

#### Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

WH E @ 1'

880-10920-14

#### **Sample Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
30-10920-1	V1 @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
80-10920-2	V1 @ 4'	Solid	02/01/22 00:00	02/04/22 15:40	4
30-10920-3	V2 @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
30-10920-4	V2 @ 4'	Solid	02/01/22 00:00	02/04/22 15:40	4
0-10920-5	V3 @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
0-10920-6	V3 @ 4'	Solid	02/01/22 00:00	02/04/22 15:40	4
-10920-7	NH B @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
-10920-8	NH B @ 1'	Solid	02/01/22 00:00	02/04/22 15:40	1
-10920-9	EH C @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
-10920-10	EH C @ 1'	Solid	02/01/22 00:00	02/04/22 15:40	1
)-10920-11	SH D @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
-10920-12	SH D @ 1'	Solid	02/01/22 00:00	02/04/22 15:40	1
-10920-13	WH E @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0

02/01/22 00:00 02/04/22 15:40 1

Solid

12 13 14

Job ID: 880-10920-1 SDG: Rural Eddy Co, NM



10/30/2023 9:54:23 AM

Received by OGD:

Received by OGD: 10/30/2023 9:54:23 AM

Project Manager:

Company Name:



Etech Environmental and Safety

Joel Lowry

#### **Chain of Custody**

13

Bill to: (if different)

Company Name:

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 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Atlanta, GA (770) 449-8800

Solaris Water Midstream C/O Rob Kirk

Work Order No:

2 www.xenco.com Page of 2 Work Order Comments Program: UST/PST PRP Brownfields RRC Superfund State of Project:

Address:	2617	West Ma	rland				Address:										St	tate of	Projec	ct:			
City, State ZIP:	Hobb	s, NM 882	240				City, State ZI	P:									Repo	rting:L	evel I	Lev	el II	PST/	
Phone:	(575)	264-9884	1			Email:	Email Resu	Its to: I	PM@	M@etechenv.com + Client Deliverables: EDD ADaPT Other:									C Other:				
Project Name:		Lobo 285	5 SWD W	ater Reuse	,	Tu	m Around	ANALYSIS REQUEST									Preservative Codes						
Project Number:			15510	r		Routi	ne: 🛛																HNO3: HN
Project Location		Rura	al Eddy C	o., NM		Rush		rvative						T									H2S04: H2
Sampler's Name:		Ma	atthew G	rieco		Due D	ue Date:						1			(	i i						HCL: HL
PO #:								Ser									ł		1				None: NO
SAMPLE RECEI	PT	Ter	mp Blank:	Yes No	w	et lce:	Yes No	Pre								1			1	1			NaOH: Na
Temperature (°C):				Thermometer ID			ID	ners								1							MeOH: Me
Received Intact:		Yes	No					Contai		(t			}	1									Zn Acetate+ NaOH: Zn
Cooler Custody Seals:		Yes No	N/A	Correction F	actor:				-	ed E							ł						TAT starts the day recevied by the
Sample Custody Seals	:	Yes No	N/A	Total Contai	ners:			r of	(8021)	odifi	0						1		1				lab, if received by 4:30pm
Sample Identi	ificati	on	Matrix	Date Sampled	Tin Sam		Depth	Number o	BTEX (8	TPH (Modified Ext.)	CI- (E300)												Sample Comments
SH D @ 0'			Soil	2/1/2022			0	1/NO	X	X	X												
SH D @ 1'			Soil	2/1/2022			1	1/NO	х	х	X												
WH E @ 0'			Soil	2/1/2022			0	1/NO	Х	X	X												
WH E @ 1'			Soil	2/1/2022			1	1/NO	х	X	X												
					-																		
														-									
																-							
												1	-		_								
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Total 200.7 / 60 Circle Method(s		200.8 / 6					M Texas 1 P 6010: 8R										-			∖ Se	Ag S		la Sr Ti Sn U V Zn 31 / <b>245.1 / 7470 / 7471</b> :Hg
										_				_	_								The second
Notice: Signature of this doo of service. Xenco will be lia of Xenco. A minimum charg	ble only	y for the cost	t of samples	and shall not a	ssume a	ny respo	insibility for any	losses o	r expen	ses inc	urred by	the cli	ent if su	ch losse	s are du	e to cir	cumstan	ces bey	ond the	control			
Relinquished by:	(Sign	ature)		Received	by: (Si	gnatur	e)		Date/	Time		R	elinqu	ished I	oy: (Si	gnatu	re)		Rece	ived	#: (Si	gnatur	e) 0 Date/Time
Mata	-1	n		IN XO	2			210	115	40	22	2	A	TA	il	An	D			M	N	on	Mar
3				tur	V			pr. L	10		00	4	1	J.	No.	6	-		P	11	4	M	104
5												6						(	1		_		
								L											5	_			Revised Date101419 Rev, 2019.1

#### Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 10920 List Number: 1 Creator: Teel, Brianna

<6mm (1/4").

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Eurofins Midland Released to Imaging: 3/18/2024 9:58:55 AM 14

Job Number: 880-10920-1 SDG Number: Rural Eddy Co, NM

List Source: Eurofins Midland

#### Received by OCD: 10/30/2023 9:54:23 AM

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

#### Laboratory Job ID: 880-14085-1

Laboratory Sample Delivery Group: Rural Eddy Co., NM Client Project/Site: Lobo 285 SWD Water Reuse

#### For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: Joel Lowry

Brianna Tel

Authorized for release by: 5/2/2022 1:32:55 PM Brianna Teel, Project Manager (432)704-5440 Brianna.Teel@et.eurofinsus.com

Designee for

Jessica Kramer, Project Manager (432)704-5440 Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Visit us at: www.eurofinsus.com/Env

..... LINKS

Review your project results through

Total Access

**Have a Question?** 

Ask-

The

Released to Imaging: 3/18/2024 9:58:55 AM

Laboratory Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

# **Table of Contents**

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Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Page 98 of 296

Job ID: 880-14085-1	I
SDG: Rural Eddy Co., NM	1

#### Qualifiers

Qualifiers		3
GC Semi VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	5
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	Q
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	13
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin) MPN Most Probable Number

MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEGNegative / AbsentPOSPositive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 880-14085-1

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SDG: Rural Eddy Co., NM

#### Job ID: 880-14085-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-14085-1

#### Receipt

The samples were received on 4/26/2022 9:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-24262/3-A) and (MB 880-24262/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24336 and 880-24336 and analytical batch 880-24547 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

		Clien	t Sample R	esults	5				
Client: Etech Environmental & Safety Project/Site: Lobo 285 SWD Water Re			•				90	Job ID: 880- G: Rural Eddy	
-	euse							-	
Client Sample ID: V1 @ 6' Date Collected: 04/25/22 00:00							Lab Sam	ple ID: 880-1	4085-1 ix: Solid
Date Received: 04/26/22 09:08								Watri	ix. Soliu
Sample Depth: 6'									
 Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	521		49.9		mg/Kg			05/01/22 15:09	10
Client Sample ID: V2 @ 6'							Lab Sam	ple ID: 880-1	4085-2
Date Collected: 04/25/22 00:00								Matri	ix: Solid
Date Received: 04/26/22 09:08									
Sample Depth: 6'									
Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		4.98		mg/Kg			05/01/22 15:28	1
Client Sample ID: V3 @ 12'							Lab Sam	ple ID: 880-1	4085-3
								-	x: Solid
Date Collected: 04/25/22 00:00									
Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08									
Date Received: 04/26/22 09:08 Sample Depth: 12'	atography	Solubla							
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Date Received: 04/26/22 09:08 Sample Depth: 12'		Soluble Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/01/22 15:34	Dil Fac
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride	Result			MDL		<u>D</u>		05/01/22 15:34	20
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0'	Result			MDL		<u> </u>		05/01/22 15:34 ple ID: 880-1	20 <b>4085-4</b>
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00	Result			MDL		<u> </u>		05/01/22 15:34 ple ID: 880-1	20
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08	Result			MDL		<u>D</u>		05/01/22 15:34 ple ID: 880-1	20 <b>4085-4</b>
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0'	Result 9100	Qualifier		MDL		<u>D</u>		05/01/22 15:34 ple ID: 880-1	20 <b>4085-4</b>
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C	Result 9100	Qualifier		MDL	mg/Kg	<u>D</u>	Lab Sam	05/01/22 15:34 ple ID: 880-1 Matri	20 <b>4085-4</b>
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0'	Result 9100	Qualifier O) (GC) Qualifier	99.0		mg/Kg			05/01/22 15:34 ple ID: 880-1	20 4085-4 ix: Solid
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH	Result 9100 Organics (DR Result <50.0	Qualifier O) (GC) Qualifier U	99.0		mg/Kg		Lab Sam	05/01/22 15:34 ple ID: 880-1 Matri Analyzed	20 4085-4 ix: Solid
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH Method: 8015B NM - Diesel Range	Prganics (DR( Result <50.0 Organics (DI	Qualifier O) (GC) Qualifier U RO) (GC)	99.0 	MDL	Unit mg/Kg	D	Lab Sam	05/01/22 15:34 ple ID: 880-1 Matri Analyzed 04/28/22 09:20	20 4085-4 ix: Solid Dil Fac
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH Method: 8015B NM - Diesel Range Analyte	Result 9100 Organics (DR Result <50.0 Organics (DI Result	Qualifier D) (GC) Qualifier U RO) (GC) Qualifier	99.0 		Unit Unit Unit		Lab Sam Prepared Prepared	05/01/22 15:34 ple ID: 880-1 Matri Analyzed 04/28/22 09:20 Analyzed	20 4085-4 ix: Solid Dil Fac 1 Dil Fac
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH Method: 8015B NM - Diesel Range	Prganics (DR( Result <50.0 Organics (DI	Qualifier D) (GC) Qualifier U RO) (GC) Qualifier	99.0 	MDL	Unit mg/Kg	D	Lab Sam	05/01/22 15:34 ple ID: 880-1 Matri Analyzed 04/28/22 09:20	20 4085-4 ix: Solid Dil Fac
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 9100 Organics (DR Result <50.0 Organics (DI Result	Qualifier O) (GC) Qualifier U RO) (GC) Qualifier U	99.0 	MDL	Unit Unit Unit	D	Lab Sam Prepared Prepared	05/01/22 15:34 ple ID: 880-1 Matri Analyzed 04/28/22 09:20 Analyzed	20 4085-4 ix: Solid Dil Fac 1 Dil Fac
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result 9100 Organics (DR Result <50.0 Organics (DI Result <50.0	Qualifier Qualifier Qualifier U RO) (GC) Qualifier U U	99.0 <b>RL</b> 50.0 <b>RL</b> 50.0	MDL	Unit mg/Kg Unit mg/Kg	D	Lab Sam Prepared Prepared 04/26/22 14:42	05/01/22 15:34 ple ID: 880-1 Matri Analyzed 04/28/22 09:20 Analyzed 04/27/22 19:09	20 4085-4 ix: Solid Dil Fac 1 Dil Fac 1
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result           9100           Organics (DR)           Result           <50.0	Qualifier Qualifier Qualifier U RO) (GC) Qualifier U U	99.0 <b>RL</b> 50.0 50.0 50.0	MDL	Unit mg/Kg Unit mg/Kg mg/Kg	D	Lab Sam Prepared 04/26/22 14:42 04/26/22 14:42	05/01/22 15:34 ple ID: 880-1 Matri Analyzed 04/28/22 09:20 Analyzed 04/27/22 19:09 04/27/22 19:09	20 4085-4 ix: Solid Dil Fac 1 Dil Fac 1 1
Date Received: 04/26/22 09:08 Sample Depth: 12' Method: 300.0 - Anions, Ion Chrom Analyte Chloride Client Sample ID: WHF @ 0' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08 Sample Depth: 0' Method: 8015 NM - Diesel Range C Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result           9100           Organics (DR)           Result           <50.0	Qualifier Qualifier U RO) (GC) Qualifier U U U U U	99.0 <b>RL</b> 50.0 50.0 50.0 50.0	MDL	Unit mg/Kg Unit mg/Kg mg/Kg	D	Lab Sam Prepared 04/26/22 14:42 04/26/22 14:42	05/01/22 15:34 ple ID: 880-1 Matri Analyzed 04/28/22 09:20 Analyzed 04/27/22 19:09 04/27/22 19:09 04/27/22 19:09	20 4085-4 ix: Solid Dil Fac 1 1 1 1 1

Method: 300.0 - Anions, Ion Chromatography - Soluble												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	261		25.0		mg/Kg			05/01/22 15:41	5			

Project/Site: Lobo 285 SWD Water Reuse

Client: Etech Environmental & Safety Solutions

Matrix: Solid

Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

Lab Sample ID: 880-14085-5

#### Client Sample ID: WHF @ 1' Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/28/22 09:20	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:30	1
(GRO)-C6-C10			50.0					0.1/07/00.10.00	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/26/22 14:42	04/27/22 19:30	1
o-Terphenyl	101		70 - 130				04/26/22 14:42	04/27/22 19:30	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		25.3		mg/Kg			05/01/22 15:47	5

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)		
880-14003-A-21-B MS	Matrix Spike	78	82		
880-14003-A-21-C MSD	Matrix Spike Duplicate	78	81		
880-14085-4	WHF @ 0'	84	94		- 5
880-14085-5	WHF @ 1'	88	101		
Surrogate Legend					
1CO = 1-Chlorooctane					
OTPH = o-Terphenyl					
lethod: 8015B NM	- Diesel Range Organic	;s (DRO) (GC	)		
atrix: Solid				Prep Type: Total/NA	
atrix: Solid				Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits)	
atrix: Solid		1CO2	OTPH2		
latrix: Solid	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)		

153 S1+

145 S1+

125

116

LCSD 880-24262/3-A	Lab Control Sample Dup
MB 880-24262/1-A	Method Blank

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

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Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-24262/ Matrix: Solid	1-A											Client Sa	mple ID: I Prep T		d Blank otal/NA
Analysis Batch: 24278															: 24262
		МΒ	МВ												
Analyte			Qualifier		RL		MDL	Unit		D	Pi	repared	Analyz	ed	Dil Fac
Gasoline Range Organics	<	50.0	U		50.0			mg/Ko	9		04/20	6/22 14:42	04/27/22	11:32	1
(GRO)-C6-C10					50.0				_		04/0	0/00 44.40	04/07/00	14.00	4
Diesel Range Organics (Over C10-C28)	<;	50.0	0		50.0			mg/Ko			04/20	6/22 14:42	04/27/22	11:32	1
Oll Range Organics (Over C28-C36)	<	50.0	U		50.0			mg/Kg	9		04/20	6/22 14:42	04/27/22	11:32	1
									-						
	~~-										_				
Surrogate	%Reco		Qualifier									repared	Analyz		Dil Fac
1-Chlorooctane		116	04.		130							6/22 14:42	04/27/22		1
o-Terphenyl		145	S1+	70 -	130						04/2	6/22 14:42	04/27/22	11:32	1
Lab Sample ID: LCS 880-24262	2/2-A									С	lient	Sample	ID: Lab Co	ontrol	Sample
Matrix: Solid												Campio			otal/NA
Analysis Batch: 24278															: 24262
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		1162			mg/Kg		_	116	70 - 130		
(GRO)-C6-C10															
Diesel Range Organics (Over				1000		966.8			mg/Kg			97	70 - 130		
C10-C28)															
	LCS	LCS													
Surrogate	%Recovery	Qua	lifier	Limits											
1-Chlorooctane	105			70 - 130	-										
o-Terphenyl	126			70 - 130											
Γ											_				
Lab Sample ID: LCSD 880-2426	52/3-A								Cli	ent	Sam	ple ID: L	ab Contro		
Matrix: Solid															otal/NA
Analysis Batch: 24278				Calles		LCSD	1.00	<b>_</b>					%Rec	Batch	: 24262 RPD
Analyte				Spike Added		Result			Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000		1044	Qua		mg/Kg		<u> </u>	104	70 - 130	11	20
(GRO)-C6-C10				1000		1044			mg/rtg			104	70 - 150		20
Diesel Range Organics (Over				1000		1076			mg/Kg			108	70 - 130	11	20
C10-C28)									-						
	LCSD	LCS	D												
Surrogate	%Recovery			Limits											
1-Chlorooctane	125			70 - 130	-										
o-Terphenyl	153	S1+		70 - 130											
Lab Sample ID: 880-14003-A-21	1-B MS											Client S	Sample ID:	Matri	x Spike
Matrix: Solid													Prep T	ype: T	otal/NA
Analysis Batch: 24278													Prep	Batch	: 24262
	Sample	Sam	ple	Spike		MS	MS						%Rec		
Analyte	Result		lifier	Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics	<49.9	U		999		915.7			mg/Kg			90	70 - 130		
(GRO)-C6-C10 Dissel Page Organics (Over	<49.9			999		792.4			ma/Ka			77	70 - 130		
Diesel Range Organics (Over C10-C28)	~49.9	0		999		192.4			mg/Kg			11	10 - 130		

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Job ID: 880-14085-1

SDG: Rural Eddy Co., NM

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-14003-A-21-B MS
Matrix: Solid
Analysis Batch: 24278

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	82		70 - 130

#### Lab Sample ID: 880-14003-A-21-C MSD Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Matrix: Solid Analysis Batch: 24278										Type: To Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	876.0		mg/Kg		86	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	748.8		mg/Kg		72	70 - 130	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	78		70 - 130								
o-Terphenyl	81		70 - 130								

Lab Sample ID: MB 880-24336/1-A											Client S	Sample ID:	Method	Blank
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 24547														
	MB	МВ												
Analyte	Result	Qualifier		RL		MDL	Unit		D	Ρ	repared	Analyz	ed	Dil Fac
Chloride	<5.00	U		5.00			mg/Kg					05/01/22	12:56	
Lab Sample ID: LCS 880-24336/2-A									Cli	ent	Sample	e ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 24547														
			Spike		LCS	LCS						%Rec		
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride			250		246.7			mg/Kg		_	99	90 _ 110		
Lab Sample ID: LCSD 880-24336/3-A	<b>\</b>							Cli	ient S	am	ple ID:	Lab Contro	I Samp	le Dup
Matrix: Solid											· · · ·		Type: S	
Analysis Batch: 24547														
-			Spike		LCSD	LCS	D					%Rec		RPD
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250		233.0			mg/Kg		_	93	90 - 110	6	20
Lab Sample ID: 880-14074-A-19-C M	S										Client	Sample ID	: Matrix	Spike
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 24547														
	Sample Sam	ple	Spike		MS	MS						%Rec		

	Sample	Sample	бріке	IVI S	NIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5100	F1	2480	8032	F1	mg/Kg		118	90 - 110	

Job ID: 880-14085-1

Prep Type: Total/NA

Prep Batch: 24262

SDG: Rural Eddy Co., NM

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Matrix Spike Duplicate** 

#### **QC Sample Results**

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-14074-A-1	19-D MSD					Cli	ient Sa	ample ID	): Matrix S	oike Dup	olicate
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 24547											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Chloride	5100	F1	2480	7739		mg/Kg		107	90 - 110	4	20
Lab Sample ID: 880-14083-A-	1-C MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 24547											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	2160	F1	1250	3793	F1	mg/Kg		131	90 - 110		
Lab Sample ID: 880-14083-A-1	1-D MSD					Cli	ient Sa	ample ID	): Matrix S	oike Dup	olicate
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 24547									· · · · ·		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2160		1250	3687	F1	mg/Kg		123	90 - 110	3	20

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Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

#### Prep Batch: 24262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method
880-14085-4	WHF @ 0'	Total/NA	Solid	8015NM Prep
880-14085-5	WHF @ 1'	Total/NA	Solid	8015NM Prep
MB 880-24262/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-24262/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-24262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep
880-14003-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep
880-14003-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep

#### Analysis Batch: 24278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-14085-4	WHF @ 0'	Total/NA	Solid	8015B NM	24262	
880-14085-5	WHF @ 1'	Total/NA	Solid	8015B NM	24262	
MB 880-24262/1-A	Method Blank	Total/NA	Solid	8015B NM	24262	
LCS 880-24262/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24262	
LCSD 880-24262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24262	
880-14003-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	24262	
880-14003-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24262	

#### Analysis Batch: 24378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14085-4	WHF @ 0'	Total/NA	Solid	8015 NM	
880-14085-5	WHF @ 1'	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 24336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14085-1	V1 @ 6'	Soluble	Solid	DI Leach	
880-14085-2	V2 @ 6'	Soluble	Solid	DI Leach	
880-14085-3	V3 @ 12'	Soluble	Solid	DI Leach	
880-14085-4	WHF @ 0'	Soluble	Solid	DI Leach	
880-14085-5	WHF @ 1'	Soluble	Solid	DI Leach	
MB 880-24336/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24336/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24336/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14074-A-19-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14074-A-19-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-14083-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14083-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 24547

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-14085-1	V1 @ 6'	Soluble	Solid	300.0	24336
880-14085-2	V2 @ 6'	Soluble	Solid	300.0	24336
880-14085-3	V3 @ 12'	Soluble	Solid	300.0	24336
880-14085-4	WHF @ 0'	Soluble	Solid	300.0	24336
880-14085-5	WHF @ 1'	Soluble	Solid	300.0	24336
MB 880-24336/1-A	Method Blank	Soluble	Solid	300.0	24336
LCS 880-24336/2-A	Lab Control Sample	Soluble	Solid	300.0	24336
LCSD 880-24336/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24336
880-14074-A-19-C MS	Matrix Spike	Soluble	Solid	300.0	24336

Prep Batch

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Job ID: 880-14085-1

SDG: Rural Eddy Co., NM

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

#### HPLC/IC (Continued)

#### Analysis Batch: 24547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14074-A-19-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24336
880-14083-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	24336
880-14083-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24336

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-14085-3

Lab Sample ID: 880-14085-4

Lab Sample ID: 880-14085-5

#### Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

#### Client Sample ID: V1 @ 6' Date Collected: 04/25/22 00:00

Date	<b>Received:</b>	04/26/22	09:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		10			24547	05/01/22 15:09	СН	XEN MID

#### Client Sample ID: V2 @ 6' Date Collected: 04/25/22 00:00 Date Received: 04/26/22 09:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		1			24547	05/01/22 15:28	СН	XEN MID

#### Client Sample ID: V3 @ 12' Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		20			24547	05/01/22 15:34	СН	XEN MID

#### Client Sample ID: WHF @ 0'

#### Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1		-	24378	04/28/22 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24262	04/26/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24278	04/27/22 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		5			24547	05/01/22 15:41	СН	XEN MID

#### Client Sample ID: WHF @ 1' Date Collected: 04/25/22 00:00

#### Date Received: 04/26/22 09:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24378	04/28/22 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24262	04/26/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24278	04/27/22 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		5			24547	05/01/22 15:47	СН	XEN MID

#### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440
10

# **Accreditation/Certification Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pi	rogram	Identification Number	Expiration Date
exas	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report. b	ut the laboratory is not certifi	ed by the governing authority. This list ma	w include analytes for
the agency does not of	1 /		ed by the governing autionty. This list he	
the agency does not of Analysis Method	1 /	Matrix	Analyte	

Eurofins Midland

# **Method Summary**

## Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

lethod	Method Description	Protocol	Laboratory
015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
I Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

## Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Client: Etech Environmental & Safety Solutions Project/Site: Lobo 285 SWD Water Reuse Job ID: 880-14085-1 SDG: Rural Eddy Co., NM

b Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
0-14085-1	V1 @ 6'	Solid	04/25/22 00:00	04/26/22 09:08	6'	
0-14085-2	V2 @ 6'	Solid	04/25/22 00:00	04/26/22 09:08	6'	
0-14085-3	V3 @ 12'	Solid	04/25/22 00:00	04/26/22 09:08	12'	
0-14085-4	WHF @ 0'	Solid	04/25/22 00:00	04/26/22 09:08	0'	
0-14085-5	WHF @ 1'	Solid	04/25/22 00:00	04/26/22 09:08	1'	



# **Chain of Custody**

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

Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900 Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701

13

Work Order No: \_

5/2/2022

.

Project Manager	Joel Lowry				Bill to. (if differe	ot).	Solaris	Wate	r Midst	tream (	C/O R	ob Kirk		ר ר					xenco			ments	<u>    1                                </u>	
Company Name:	Etech Environi	mental an	d Safety		Company Nar		oolaria	, vvalo	Mildor	licum	0/011	Jo ran		-1	Progra		ST/PS							perfund
Address.	2617 West Ma		d Oalety		Address.									1 [	-	te of F		_		Dien		· ···		
City, State ZIP	Hobbs, NM 88				City, State ZII										Repor				vel 🗖	PS	T/U¶	TR	f Le	vel∏∕
	(575) 264-988			Emoil	Email Resul		DM@	atocho			`liont				Delive						- эт 🗖		ther.	
Phone:	1		L_	1						<u></u>				L			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				<del></del>		ervative	Cadaa
Project Name:	Lobo 28		ater Reuse		rn Around		1	T	T		AN	ALYSI	IS RE	QUE	ST	T			T	т—	╇		and the second s	Codes
Project Number:		15510		Routi														<b> </b>		_	-	03 HN		
Project Location		al Eddy C		Rush		eservative				ļ												604 H2		
ampler's Name	M	atthew G	rieco	Due	Date	erva																L. HL		
0#:	and the second se				-															1		ne NO		
SAMPLE REC		mp Blank:	Yes No	Wet Ice:		rs/P																OH Na		
Cemperature (°C).	A CONTRACTOR OF	41	Th	ermometer	D	Containers/P																OH Me		-
Received Intact:	Yes				2	onta		Ext.)													Zn	Acetate	+ NaOH	Zn
Cooler Custody Sea Sample Custody Se	and the second sec	lo (N/A) lo (N/A)	Correction Fac Total Containe		· · · · · · · · · · · · · · · · · · ·	ofC	Ê	(Modified													T/		the day re	ecevied by the
Sample Guslody Se						per	(8021)	Mod	300)												-			y 4 00pm
Sample Ide	entification	Matrix	Date Sampled	Time Sampled	Depth	Number Code	BTEX	ТРН (	CI- (E300)													Sam	ple Com	nments
/1@6'		Soil	4/25/2022		6'	1/NO			Х															
V2 @ 6'		Soil	4/25/2022		6'	1/NO			х					_										
V3 @ 12'		Soil	4/25/2022		12'	1/NO	)		х					( ( <b>A</b> B) a p			1	1	1	1	1			
WHF @ 0'		Soil	4/25/2022		0'	1/NO	>	x	х				-							<b>i</b> ni <b>n</b> i				
WHF @ 1'		Soil	4/25/2022		1'	1/NO		X	х				_											
														80-1	4085	Chain	of CL	istod.	))))))))))))))))))))))))))))))))))))))					
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Total 200.7 / Circle Metho Notice: Signature of th of service. Xenco will of Xenco. A minimum	d(s) and Metal(s is document and reli- be liable only for the	5) to be an inquishment	of samples consti	TCLP / SP	responsibility for	rom clie	Sb nt comp	As B Dany to 2	A Be Xenco, i	Cd C	Cr Co ates and	Cu F subcon	Pb Mr	MO Itas	) Ni S signs s e to circ	Se Aç tandard umstan	terma	u and convolution	ondition he contr	1				V Zn /7471 ⊦
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Released to Imaging: 3/18/2024 9:58:55 AM

Page 112 of 296

Job Number: 880-14085-1 SDG Number: Rural Eddy Co., NM

List Source: Eurofins Midland

## Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 14085 List Number: 1 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



July 27, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 "DRILLING TRUCK"

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 12:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	07/21/2023	Sampling Date:	07/19/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	LOBO 285 "DRILLING TRUCK"	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	RURAL EDDY COUNTY, NM		

## Sample ID: BH 1 @ 30' (H233825-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC											
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier						
Chloride	272	16.0	07/26/2023	ND	416	104	400	3.77							

## Sample ID: BH 1 @ 35' (H233825-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Chloride	128	16.0	07/26/2023	ND	416	104	400	3.77					

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Name	e: Etech Environmen		-	, ind	c.						BI	LL TO			_		ANALYSIS REQUEST
Project Manage									P.O.	#:						T	
Address: 261	17 West Marland								Com	npan	ıy	Sola	ris				
City: Hobbs		State: NM	Zip	: 88	240				Attn	:		Rob Kir	k	1			
Phone #: (57	(5) 264-9884	Fax #:							Add	ress	:			1	1		
Project #: 15	510	Project Owne	r:	So	laris				City					1		-	
Project Name:	Lobo 285 "Drilling True	<b>k</b> "							Stat	e:	NM	Zip:			2W	8	
Project Locatio	n: Rural Eddy County	, NM							Pho	ne #	:			Chloride	TPH (8015M)	RTFX (8021R)	
Sampler Name:	Eddie Gaytan								Fax	#:				- F	H	1 A	
FOR LAB USE ONLY				Γ		M/	TRE	K	AP	RES	ERV.	SAMPL	ING	1.1	F		ā
Lab I.D.	Sample	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	OTHER :	DATE	TIME				
1	BH1 @ 30'		G	1		X	(			>	(	7/19/23	1.1.1.1.1.1.1	X			
. 2	BH1 @ 35'		G	1		X	(			>	(	7/19/23	-	X			
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Relinguished B	then	Date: 7-21-23 Time: 1258 Date:	Re	ceiv	ved E	3y: IUU	W			d	af		Phone Re Fax Resu REMARK	esult: it:			No Add'I Phone #: No Add'I Fax #:
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Revision 1.0

1-5-9

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October 03, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 09/27/23 16:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 1 @ 3' (H235284-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTEX	<0.300	0.300	10/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	103	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	99.4	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 2 @ 3' (H235284-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	GC-NC
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	GC-NC
Total Xylenes*	0.305	0.150	10/01/2023	ND	6.36	106	6.00	2.04	GC-NC1
Total BTEX	0.305	0.300	10/01/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	132	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	135	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	9920	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	3590	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	320	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 3 @ 3' (H235284-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTEX	<0.300	0.300	10/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	88.5	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	61.3	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 4 @ 3' (H235284-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTEX	<0.300	0.300	10/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 5 @ 3' (H235284-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTEX	<0.300	0.300	10/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	227	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	168	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 8 @ 3' (H235284-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.09	101	6.00	1.67	
Total BTEX	<0.300	0.300	09/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	1510	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	68.5	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	75.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	299 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 9 @ 3' (H235284-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.09	101	6.00	1.67	
Total BTEX	<0.300	0.300	09/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	145	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	32.2	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 10 @ 3' (H235284-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.09	101	6.00	1.67	
Total BTEX	<0.300	0.300	09/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	2860	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	1200	10.0	09/29/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 11 @ 3' (H235284-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	0.789	0.150	09/29/2023	ND	6.09	101	6.00	1.67	GC-NC1
Total BTEX	0.789	0.300	09/29/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	136	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	09/29/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	09/29/2023	ND	201	100	200	3.57	
DRO >C10-C28*	12200	100	09/29/2023	ND	210	105	200	4.62	QM-07, QR-03
EXT DRO >C28-C36	4790	100	09/29/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	513	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/27/2023	Sampling Date:	09/27/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 12 @ 3' (H235284-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	0.726	0.150	09/29/2023	ND	6.09	101	6.00	1.67	GC-NC1
Total BTEX	0.726	0.300	09/29/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	138 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	09/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	09/29/2023	ND	201	100	200	3.57	
DRO >C10-C28*	14600	100	09/29/2023	ND	210	105	200	4.62	
EXT DRO >C28-C36	5680	100	09/29/2023	ND					
Surrogate: 1-Chlorooctane	119 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	606 9	6 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240



service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profiles incurred by client, its subsidiaries, affiliates or successors arking out of or related to the performance of services hereunder by Cardinat, regardless of whether such claim is based upon any of the above stated reasons or otherwise **Relinguished By:** Date: 17/23 Received By: Phone Result: □ Yes D No Add'l Phone #: Fax Result: O Yes O No Add'I Fax #: Time: **REMARKS:** Email results to pm@etechenv.com 10:78 Haran F.ds **Relinquished By:** Date: Received Time: Delivered By: (Circle One) Sample Condition CHECKED BY: noc Cool Intact (Initials) Ves Ves Sampler - UPS - Bus - Other: Λ † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

AM

9:54:23

10/30/2023

Received by OCD:

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393 FORM-006 R 2.0



October 05, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 09/29/23 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 13 @ 3' (H235330-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	89.8	200	8.80	
DRO >C10-C28*	4580	10.0	10/02/2023	ND	184	92.1	200	13.2	
EXT DRO >C28-C36	1860	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	209	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 14 @ 3' (H235330-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	37.6	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	10.3	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 15 @ 3' (H235330-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	44.1	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	24.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 16 @ 3' (H235330-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	3040	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	1370	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	144 9	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 17 @ 3' (H235330-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.1	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	6110	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	2110	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	113 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	218 9	49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 18 @ 3' (H235330-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	0.253	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.8	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	6350	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	2150	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	181	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 19 @ 3' (H235330-07)

BTEX 8021B	mg	′kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	0.051	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	0.598	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEX	0.649	0.300	10/02/2023	ND						
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4							
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	10/02/2023	ND	432	108	400	3.64		
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	10/03/2023	ND	190	94.9	200	3.88		
DRO >C10-C28*	15300	100	10/03/2023	ND	192	96.1	200	1.20		
EXT DRO >C28-C36	5570	100	10/03/2023	ND						
Surrogate: 1-Chlorooctane	129	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	539	% 49.1-14	8							

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## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 20 @ 3' (H235330-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	39.4	10.0	10/03/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					
Surrogate: 1-Chlorooctane	116 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

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## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 21 @ 3' (H235330-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	1180	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	625	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 22 @ 3' (H235330-10)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	151	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	66.2	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	99.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 23 @ 3' (H235330-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	10.8	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 24 @ 3' (H235330-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/02/2023	ND	400	100	400	3.92	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	377	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	273	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 25 @ 3' (H235330-13)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	2680	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	1230	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager


## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 26 @ 3' (H235330-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	3400	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	1390	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	149	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 27 @ 3' (H235330-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	2050	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	840	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	158	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 28 @ 6' (H235330-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	42.6	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	26.4	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 29 @ 3' (H235330-17)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	215	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	119	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 30 @ 3' (H235330-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	276	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	153	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 31 @ 3' (H235330-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	69.4	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	46.9	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/28/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 32 @ 3' (H235330-20)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	614	10.0	10/02/2023	ND	192	96.1	200	1.20	QM-07
EXT DRO >C28-C36	337	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137 9	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Company Name	Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST														
Project Manage	: Joel Lowry						Ρ.	0. #	tr.										T	T			
Address: 261	7 W Marland Blvd						Company: Solaris Midstream																
City: Hobbs State: NM / Zip: 88240				At	tn:	Rob	Kir	k															
Phone #: 575-396-2378 Fax #: 575-396-1429				A	Address			-															
Project #: 155	10 Project Owner:	30	naris	vvater LL(		eam,	Ci	ty:					1										
	Lobo 285 SWD Water Reuse			_			St	ate:			Zip:	101											
Project Location	1: UL/ A Sec 22 T25S - R28E						Pł	none	e #:	1			1		1								
Sampler Name:	1 111						Fa	x #:				in the second	N										
FOR LAB USE ONLY			Γ		MAT	RIX	_	PR	ESE	RV.	SAMPL	ING	1										
Lab I.D. HJ3733	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	Soll	OIL	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	ТРН	RTFX 8021	ŀ							
ť	FL # 13 @ 3'				X				X		9/28/23		X	X	X	1							
2	FL # 14 @ 3'	1			1				1		1		t	1	1	1							
3	FL # 15 @ 3'										and diam.												
4	FL # 16 @ 31	4				-	-				-	-	11										
5	FL #1] @ 3'	11	L			-	_	⊢	11	1							_						
6	FL # 18 @ 3'	4				_		1					1	11			-	-	-		_		
7	FL #19 @ 3'	H	⊢				-						11				_	-	+	_	-		 
8	FL # 20 @ 3'	H	⊢			-	-	+				, ,		++-	$\square$	-	-	+		-			 
The second	FL # 21 @ 3'	tt	-		11		-	-	N				the		10	1-	-	+-	_				 
PLEASE NOTE: Liability a	H H J O J nd Damages. Cardinal's liability and client's exclusive remedy for a	y clair	n arisir	ng whether	based in	contrac	t or tor	, shall I	be limit	ted to	the amount paid	by the client for t	the	V		_	_	_					
analyses. All claims includ service. In no event shall (	ing those for negligence and any other cause whatsoever shall be of Cardinal be liable for incidental or consequental damages, including	withou	t limita	ed unless nation, busin	nade in w	riting an ruptions,	d recei	f use, o	Cardin or loss	nal wit	hin 30 days after fits incurred by c	r completion of the	e applicab ies,	ke									
affiliates or successors aris Relinguished B	ing out of or related to the performance of services hereunder by Q	ardinal	regar	ved B	hether su	ch claim	is bas	ed upor	n any c	of the a	above stated rea	Phone Re	Ð	D Ye	s	O No	Add	I Phone	e #:		-		 
1 1	Time	3								1		Fax Resu	ilt:	D Ye	S	No No		Fax #			_		 
Horr Kido	14:35	(	P	211:	n	~	-				_	REMA	RKS:	Emai	res	ults to	pm	@eteo	chen	v.com	1		
Relinguished B	y: Date:	R	ecei	ved B	v:J																		
	Time:																						
Delivered By	: (Circle One) -9.3°	-			mple						ED BY:		1			ŧ							
Sampler - UPS	D. Other				ves	ntact Y	es	-	0	(Init	ials)		15										
	*	44	0		Yes No		lo			4								-				-	

† Cardinal cannot accept verbal changes. Piease fax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 10/30/2023 9:54:23 AM



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476				
Company Name: Etech Environmental		BILL TO	ANALYSIS REQUEST	
Project Manager: Joel Lowry		P.O. #:		
Address: 2617 W Marland Blvd		Company: Solaris Midstree	eam	
City: Hobbs State: NM Zip	: 88240	Attn: Rob Kirk		
Phone #: 575-396-2378 Fax #: 575-396-1429		Address:		
Project #: 15510 Project Owner:	LLC	City:		
Project Name: Lobo 285 SWD Water Reuse		State: Zip:		
Project Location: UL/ A Sec 22 T25S - R28E		Phone #:		
Sampler Name: Acron Rics		Fax #: 👔		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLI	LING	
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : OTHER :	Chloride BTEX 8021 BTEX 8021	
() FL# 23 6 3' ×	X	× 9/28/23		-
12 FL # 24 @ 3 1		1 1 1 1 1 0 0 1 2		-
13 FL # 25 @ 3'				
14 FL # 26 @ 3'				
15 FL # 27 G 3'				
16 FL # 28 @ 6				
17 FL # 29 @ 3'				
1B FL # 30 G 3'				
19 FL# 31 6 3'				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any clai	m arising whether based in contract	or tort, shall be limited to the amount paid	d by the client for the	
analyses. All claims including those for negligence and any other cause whatsoever shall be deeme service. In no event shall Cardinal be liable for incidental or consequental damages, including witho	d waived unless made in writing and	received by Cardinal within 30 days after	er completion of the applicable	
affiliates or successors arising out of or related to the performance of services hereunder by Cardina	Regardless of whether such claim i	is based upon any of the above stated reas	Add'I Phone #:	
96972	A.,		Fax Result:	-
Annikios Time: 14:35	Atini		REMARKS: Email results to pm@etechenv.com	

CHECKED BY:

(Initials)

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Released to Imaging: 3/18/2024 9:58:55 AM

Sample Condition Cool Intact Yes Yes No No † Cardinal cannot accept verbal changes. Piease fax written changes to 575-393-2476 FORM-006 R 2.0

Date: Time:

·9.3°2

#140

Received By:

Relinguished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:



October 05, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 09/29/23 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 33 @ 3' (H235333-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	115	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	31.9	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	8						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 34 @ 3' (H235333-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	234	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	88.7	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 35 @ 3' (H235333-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	10/02/2023	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	193	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	80.4	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 49.1-14	8						

#### Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 36 @ 3' (H235333-04)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	102	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	40.8	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 37 @ 3' (H235333-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	581	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	271	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	82.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 38 @ 3' (H235333-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	236	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	73.8	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 39 @ 3' (H235333-07)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	228	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	86.9	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 40 @ 3' (H235333-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	287	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	143	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL # 41 @ 3' (H235333-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	291	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	109	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 42 @ 3' (H235333-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	31.4	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	12.7	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 43 @ 6' (H235333-11)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	62.4	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 44 @ 6' (H235333-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	1.95	97.6	2.00	0.709	
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634	
Total BTEX	<0.300	0.300	10/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	111	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	17.4	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 45 @ 3' (H235333-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	1.95	97.6	2.00	0.709	
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634	
Total BTEX	<0.300	0.300	10/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 46 @ 6' (H235333-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	1.95	97.6	2.00	0.709	
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634	
Total BTEX	<0.300	0.300	10/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.0	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/29/2023	Sampling Date:	09/29/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shalyn Rodriguez
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL # 47 @ 3' (H235333-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	1.95	97.6	2.00	0.709	
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634	
Total BTEX	<0.300	0.300	10/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	10/02/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: Etech Environmental					2 2 2	BILL TO ANALYSIS REQUEST													
Project Manager: Joel Lowry					Ρ.	0. #:				1						1	T		
Address: 2617 W Marland Blvd					Co	ompa	ny:	Solaris Midstrea	am				1						
City: Hobbs State: NM	Zij	o: 8	38240		At	tn: F	Rob Kir	k											
Phone #: 575-396-2378 Fax #: 575-	396-1429				A	ddres	s:						H-						
Project #: 15510 Project Own		olans v	LLC	stream,	City:														
Project Name: Lobo 285 SWD Water Reuse				A	State: Zip:					Q									
Project Location: UL/ A Sec 22 T25S - R28E				he.	PI	hone	#:		1.0.0										
Sampler Name: Arron Rivg					Fa	ax #:		_	-11	5	H. H.								
FOR LAB USE ONLY		П	M/	TRIX	_	PRË	SERV.	SAMPLI	NG										
Lab I.D. Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	OIL	OTHER :	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021							
FL # 33 @ 3'	X	TT		(			X	9/29/23		X	X	X					1		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$		T						1											
H # 36 @ 3'																			
5 FL # 37 6 3							(		_										
Q FL # 38 @ 3'										11			1						
Z FL # 39 6 3'		$\square$			-		1			1			-			-			
FL # 40 @ 3'	_	$\square$			-						11-		-						 
9 FL # 91 @ 3					-		1,	V		11,	1		-	-	-	-	-	-	 
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive re	nedy for any cla	m arising	whether base	d in contrac	t or tor	t shall be	V limited to	the amount paid	by the client for t	he		0	Ļ			_			
analyses. All claims including those for negligence and any other cause whatsoeve service. In no event shall Cardinal be liable for incidental or consequental damage	shall be deem	d waived	unless made	in writing a	nd rece	ived by C	ardinal wi	thin 30 days after	completion of the	e applicabi	e								
affiliates or successors arising out of or related to the performance of services here Relinguished By:	inder by Cardin	il, regardle	ed By:	r such clain	is bas	ed upon	any of the	above stated reas	ons or otherwise Phone R		□ Ye	e [	No	Addi	Phone	#.		_	 _
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Relinquished By: Date:	F	eceiv	ed By:			1		0											
Time:																			
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 10/30/2023 9:54:23 AM

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: Etech Er	nvironmental						44 - 24 44 10	a", a" -"	BI	LL TO		1				ANALY	SIS	REC	QUES	Т		
Project Manager: Joel Low	vry						P.0.	. #:				N.										
Address: 2617 W Marland	Blvd						Con	npany	:	Solaris Midstrea	n											
City: Hobbs	State: NM	Zip	: 1	38240			Attn	: Rol	.Kirl	(					1.		· ·					
Phone #: 575-396-2378	Fax #: 575-396-14	29					Add	ress:			_	1	- 1		+							
Project #: 15510	Project Owner:	30	ans	LLC		eam,	City:				1			1								
Project Name: Lobo 285 SV	WD Water Reuse						State: Zip:			Zip:	1											
	ec 22 T25S - R28E						Phone #:															
Sampler Name: Aoron 1					-		Fax	#:			-	1			1							
FOR LAB USE ONLY			П		MATE	RIX		PRESE	RV.	SAMPLI	IG	1			1							
Lab I.D. S	ample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER : -	DATE	TIME	Chloride	ТРН	BTEX 8021								
11 FL#43	66	X			X			X		9/29/23	1	X	X	X								
2 FL # 44 3 FL # 45 14 FL # 46 15 FL # 41	6,6'	X			X			~				X	×	×								
3 FL # 45	63	X			×			X	1		_	X	X	X					-			
14 FL#46	© 6'	X			X	-		×		J		X	×	X						_		
15 FL#47	© 3'	X	Ц	-	X	-		×		9/29/23		X	X	×			_		_			
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PLEASE NOTE: Liability and Damages. Cardin analyses. All claims including those for neglige service. In no event shall Cardinal be liable for affiliates or successors arising out of or related Relinquished By: Advantias Relinquished By: Delivered By: (Circle O	Ince and any other cause whatsoever shall be incidental or consequental damages, including to the performance of services Autounder by C Pate: Date: Time:	withou ardinal,	waived t limitati regard	untess m on, busine ess of whi ed By ed By ed By	ade in wess interreting the sum of the sum o	riting and uptions, I ch claim i	receive oss of u s based	d by Card use, or loss upon any	ECK	hin 30 days after o fits incurred by clie	ompletion of the nt, its subsidiari	e applicable es, esult: lt:	□ Ye □ Ye	s E	No No ts to	Add'l Ph Add'l Faz pm@et	x #:		<u>om</u>			

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October 11, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/06/23 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 48 @ 6 IN. (H235472-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.04	102	2.00	5.14	
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	213	106	200	4.58	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	228	114	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 49 @ 6 IN. (H235472-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.04	102	2.00	5.14	
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	200	100	200	3.96	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	215	107	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 50 @ 6 IN. (H235472-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.04	102	2.00	5.14	
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	200	100	200	3.96	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	215	107	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	105 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 51 @ 6 IN. (H235472-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.04	102	2.00	5.14	
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	200	100	200	3.96	
DRO >C10-C28*	11.1	10.0	10/09/2023	ND	215	107	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 52 @ 6 IN. (H235472-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.04	102	2.00	5.14	
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 53 @ 6 IN. (H235472-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.04	102	2.00	5.14	
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	106 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 54 @ 6 IN. (H235472-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 55 @ 6 IN. (H235472-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 2 @ 6 IN. (H235472-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	<i>93.8</i>	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 8 @ 6 IN. (H235472-10)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 10 @ 6 IN. (H235472-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.1	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 11 @ 6 IN. (H235472-12)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/06/2023	Sampling Date:	10/06/2023
Reported:	10/11/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Shari Cisneros
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 12 @ 6 IN. (H235472-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240



Company Name: Etech Environmental		BILL TO		ANALYSIS R	REQUEST
Project Manager: Joel Lowry		P.O. #:			
Address: 2617 W Marland Blvd		Company: Solaris Midstream			
City: Hobbs State: NM	Zip: 88240	Attn: Rob Kirk			
Phone #: 575-396-2378 Fax #: 575-396-14	129	Address:			
Project #: 15510 Project Owner:	Solaris vvater wildstream,	City:			
Project Name: Lobo 285 SWD Water Reuse		State: Zip:			
Project Location: UL/ A Sec 22 T25S - R28E		Phone #:			
Sampler Name: DOMinic Casarez		Fax #:	111-1		
PORLABUSE ONLY         Lab I.D.       Sample I.D. $H23547_{0}$ Dc $FL48 @ C : A$ D $FL49 @ C : A$ D $FL49 @ C : A$ D $FL50 @ C : A$ D $FL51 @ C : A$ D $FL52 @ C : A$ D $FL = C : A$	COMP.		ETPH		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for an analyses. All claims including those for negligence and any other cause whatsoever shall be of service. In no event shall Cardinal be liable for incidental or consequential damages, including affiliates or successors anising out of or related to the performance of services hereunder by C Relinquished By:	eemed waived unless made in writing and without limitation, business interruptions, I	I received by Cardinal within 30 days after con lose of use, or lose of profile incurred by client is based upon any of the above stated reasons	npletion of the applicable , his subsidiaries, s or otherwise. Phone Result:	No Add'I Phone #: No Add'I Fax #:	
Relinquished By:	Received By:	-0000-0	Fax Result: Yes C REMARKS: Email result CUSTOMEN dafe.	to toOstachan	sample
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condit Cool Intact	tion CHECKED BY:	date.	stodnig	10.4.23

...

Released to Imaging: 3/18/2024 9:58:55 AM

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: Etech Environmental						-			BI	LL TO	· · · · ·		-			ANALY	SIS	REQUEST	
Project Manager: Joel Lowry							P.(	). #:											
Address: 2617 W Marland Blvd							Company: Solaris Midstream			1									
tity: Hobbs State	e: NM	Zip:	8	8240	)		Att	n:	Rob Ki	rik	1	1							
hone #: 575-396-2378 Fax	#: 575-396-142	29					Ad	dres	s:			1							
Project #: 15510 Proj	ect Owner:	3018	IIIS VI	LLC	WIGSUR	am,	Cit	y: (		2		1							
Project Name: Lobo 285 SWD Water Re	use						Sta	te:	1	Zip:	1-00		0.1						
Project Location: UL/ A Sec 22 T25S -	R28E						Ph	one	:		0 -		2.1						
Sampler Name: Dominic	Casare 2	-					Fax	K #:			011	1					- 1		
FOR LAB USE ONLY	2.2.2.2.2.		T	-	MATR	IX	-	PRE	SERV.	SAMPL	NG								
Lab I.D.         Sample I.D           11235472         PC II	).	2 1	CONTAINERS	WASTEWATER	Soll	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL ØTHER :	DATE	TIME	Chloride	Hat	BTEX 8021					
		C	÷	-	V	4	-	$\vdash$	1	10.6		V	FV	1L	K	+ +	-		
12 FL 11 8 6in 13 FL 128 6in		c	t	+	V	+	-		V	5		V	W	1	1				
15 101200		4	+	+		+			-			-			1				-
		1	+	+		10						6							
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LEASE NOTE: Liability and Damages Cardinal's liability and client's	avaluation contractive in a sur-			hotherh			L fort	aball be	Emited to	the amount said	I the client for th				1				
nalyses. All claims including those for negligence and any other caus anyles. In no event shall Cardinal be liable for incidental or consequen	e whatsoever shall be dee	med wa	aived un	nless ma	de in writ	ing and	receive	ed by C	ardinal wi	thin 30 days after	completion of the	applicable	8						
filiates or successors ansing out of or related to the performance of s	ervices hereunder by Card	inal, re	gardles		ther such								O Ye		No	Add'l Pho	ne #		
D IA	10-6	K	1			Λ					Fax Resu	lt:	O Ye	s (	] No	Add'I Fax	#:		
US AU U	Time: 15		11	Q	1	C	D	2	en		REMA	RKS:	Email	resul	ts to	pm@et	eche	env.com	
		Rec	eive	d By:															
	Time:										C								
Delivered By: (Circle One)	5-8:				ple C		ion	(		(ED BY: tials)									
Sampler - UPS - Bus - Other:				P	Yes	Ye	s		N			1			2				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 10/30/2023 9:54:23 AM



October 12, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 13 @ 6 IN. (H235496-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	10/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 16 @ 6 IN. (H235496-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	GC-NC
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	GC-NC
Total Xylenes*	0.185	0.150	10/10/2023	ND	6.09	101	6.00	4.92	GC-NC1
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	161	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	10/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	86.2	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	1330	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	361	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 17 @ 6 IN. (H235496-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	13.3	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 18 @ 6 IN. (H235496-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	GC-NC
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	GC-NC
Total Xylenes*	0.232	0.150	10/10/2023	ND	6.09	101	6.00	4.92	GC-NC1
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	171	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	94.2	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	1670	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	438	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 19 @ 6 IN. (H235496-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	10/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 21 @ 6 IN. (H235496-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	10/10/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 25 @ 1 FT (H235496-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	10/10/2023	ND	432	108	400	3.64	QM-07
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 26 @ 1FT (H235496-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 27 @ 1FT (H235496-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 6 @ 3 IN. (H235496-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	294	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	71.7	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 7 @ 3 IN. (H235496-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	269	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	149	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: NW1 (H235496-12)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	33.8	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	15.4	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: SW1 (H235496-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	519	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	327	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: WW1 (H235496-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	26.7	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	14.6	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: WW2 (H235496-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	276	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	151	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: EW1 (H235496-16)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	286	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	117	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/09/2023	Sampling Date:	10/09/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: EW2 (H235496-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	10/10/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	118	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	58.3	10.0	10/10/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

# (575) 393-2326 FAX (575) 393-2476

<b>Company Name</b>	Etech Environmental	_					1 - 0	-	1	BIL	LTO						ANALY	SIS F	REQUE	ST		
Project Manage	: Joel Lowry						P	.0. #	k:				1			11						
Address: 261	7 W Marland Blvd						с	Company: Solaris Midstream			am	13										
City: Hobbs	ty: Hobbs State: NM Zip: 88240					A	Attn: Rob Kirk															
Phone #: 575	-396-2378 Fax	#: 575-396-14	29			1 1 1 1 - P 1		ddre	ess:					1								
Project #: 15510 Project Owner: LLC						ity:																
Project Name: Lobo 285 SWD Water Reuse					s	tate:		Z	Zip:													
Project Location	: UL/ A Sec 22 T25S -	R28E					P	hone	e #:	_												
Sampler Name:	Dominic Ca	sure2		_			-	ax #	-	1												
FOR LAB USE ONLY				-	M	ATRIX		PR	RESEF	RV.	SAMPL	NG	-									
#235496			(C)OMP.	S R	œ																	
Lab I.D.	Sample I.D	)	OR (C	VA1	ATE			ij	2			1	0	1	100							
Lab I.D.		· 🗡	AB O	# CONTAINERS GROUNDWATER	VASTEWATER		BGE.	ACID/BASE	00	N.			Chloride	-	>							
1	a second		(G)RAB	SRO GRO	WAS	OIL	SLUDGE	ACID	ICE / COOL	OTHER:	DATE	TIME	-	HAT					-			
DII	FL 13 @6 in		C	1		1		T			10-9		V	V	1	/						
2	FL 16 @6 in		1	1							+		1			1						
3	FLITREIN		Ш	1									-	1	-	11	_			-		
Ŭ	FL 18 @ 6 in		Ш	11-				+		_	1									_		
5	Fl 19 @ 6 in		Ш	#				+		-	1		++	+ +	-	11			-	-		_
6	FL ZI & bin		11	+-	+			+		-	-		11		-	$\left\{ \right\}_{i=1}^{n}$					+	_
i i	FL 25 @ 1 Ft		$\left  \right $	++-			+ +	+		-	1-		11	++	+	++-		-				
6	FLZ6 @ 1 ft					-		+		+	1		14	++	1-		++					
10	FLG @ 3in		1	M	1	y		1	J		V		10	V	4				-	-		
PLEASE NOTE: Liability	and Damages. Cardinal's liability and client's ing those for negligence and any other cau	s exclusive remedy for an	ny claim a	arising wh	ether base	ed in cont	tract or to	irt, shall	be limite	ed to th	ne amount paid	by the client for the	the enclication		_	1	<u>al 1</u>	-			-	
service in no event shall t	Cardinal be liable for incidental or conseque ing out of or related to the performance of	ental damages, including	without I	imitation,	business i	nterruptic	ona, loas	of use,	or loss of	of profile	s incurred by cli	ient, its subsidiar	les,			1						
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Received by OCD: 10/30/2023 9:54:23 AM

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name	Etech Environ	mental								BI	LL TO							ANA	LYSI	S RE	EQUE	ST			
Project Manager	: Joel Lowry						P	2.0. ‡	#:								2								
Address: 261	7 W Marland Blvd						c	omp	bany	:	Solaris Midstre	am													
City: Hobbs		State: NM	Zip:	ip: 88240 🧌				Attn: Rob Kirk			1.														
Phone #: 575	-396-2378	Fax #: 575-396-14	29		vaterivi		A	ddre	ess:	1			1												
Project #: 155	10	Project Owner:		2113 4	LLC			ity:					1.												
Project Name: Lobo 285 SWD Water Reuse				s	tate	:		Zip:																	
Project Location: UL/ A Sec 22 T25S - R28E			F	hon	e #:																				
Sampler Name:	Dominic	Casarer.						ax #	-																
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Lab I.D.	Samn	le I.D.	я О)	Ë I	ATE			ці,	Ы				_ <u>e</u>	2		8021									
Lab I.D.	Camp		ABO	# CONTAINERS	GROUNDWATER WASTEWATER		SLUDGE	ACID/BASE	CE / COOL	.: 1			Chloride		_	X 8									
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	and and he lieble for incidental	or consequental damages, including ormance of services hereunder by C	without ardinal, r	imitatio egardle	on, business ess of wheth	interrunti	ions loss	of use	or loss	of prof	ints incurred by cl	sons or otherwise	1es, 1 e.		1. 14	_		14-1-00		.44.				_	_
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FORM-006 R 2.0

Received by OCD: 10/30/2023 9:54:23 AM

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October 16, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/11/23 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 56 @ 1 FT (H235553-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64	
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	10/12/2023	ND	448	112	400	3.64	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 57 @ 1 FT (H235553-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64	
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 58 @ 1 FT (H235553-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64	
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 59 @ 1 FT (H235553-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	107 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 60 @ 1 FT (H235553-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 \$	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 61 @ 1 FT (H235553-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 62 @ 1 FT (H235553-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 63 @ 1 FT (H235553-08)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 64 @ 1 FT (H235553-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 65 @ 1 FT (H235553-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 66 @ 1 FT (H235553-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 67 @ 1 FT (H235553-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

# Sample ID: FL 68 @ 1 FT (H235553-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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# \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 69 @ 1 FT (H235553-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 70 @ 1 FT (H235553-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 71 @ 1 FT (H235553-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: NW 2 (H235553-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/11/2023	Sampling Date:	10/11/2023
Reported:	10/16/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: EW 3 (H235553-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEX	<0.300	0.300	10/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/12/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	29.8	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 10/30/2023 9:54:23 AM



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

8.7

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476 ompany Name: Etech Environmental	BILL TO	ANALYSIS REQUEST
roject Manager: Joel Lowry	P.O. #:	
ddress: 2617 W Marland Blvd	Company: Solaris Midstream	
ity: Hobbs State: NM Zip: 88240	Attn: Rob Kirk	
hone #: 575-396-2378 Fax #: 575-396-1429	Address:	
roject #: 15510 Project Owner: LLC	City:	
roject Name: Lobo 285 SWD Water Reuse	State: Zip:	
roject Location: UL/ A Sec 22 T25S - R28E	Phone #:	
ampler Name: DOMINIL (WOWYEZ	Fax #:	
FOR LAB USE ONLY MAT	RIX PRESERV. SAMPLING	
Tap I'D Samble I'D   # CONTAINERS # CONTAINERS   # CONTAINERS # CONTAINERS   Soll. Soll.	ML SLUDGE ACID/BASE: CCE / COOL CCE / COOL MIL BLAD	ELEX 8021
IL I FLSTEIET CII V	10.11	
2 FL 57 81 84		
36680164		
4 FL 5901 ft	49.	
SFC 60 e 1 et		
6 FL 61 @ 1 #+		
7 FL 620   Ft		
8 FL6301 PK 9 FL 64 8 1 Fr		
7 FL 65 0 1 44	01	
EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing whether based in		
All chains including those for negligence and any other cause whatsoever shall be deemed waived unless made in vice. In no event shall Cavillant be limble for incidential or consequential damages, including without limitation, business inte intes or successors artisting out of or related to the performance of services hereunder by <u>Cardinal</u> regardless of whether etc.	ptions, loss of use, or loss of profits incurred by client, its sub	sidiaries,
elinquished By: Date: /0 ~ // Received By:	A AA Phon	e Result: 🛛 Yes 🗋 No   Add'l Phone #:
Time:		esult:
elinquished By: Date: Received By:	in aller )	and a logitation
Time:		raded hush on alles.
	ondition CHECKED BY:	A TOH Only
LITE Cool	ondition CHECKED BY: (initials)	added husk on 10/12/23C.
ampler - UPS - Bus - Other: 4.9c	No Yo	Y.

71

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 10/30/2023 9:54:23 AM



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name	: Etech Environme	ental								BIL	LTO						ANA	LYSIS	REC	QUEST	r		
Project Manage	r: Joel Lowry							P.O.	#:														T
Address: 261	7 W Marland Blvd							Com	pany	S	Solaris Midstre	am											
City: Hobbs		State: NM	Zip	: 1	38240	)		Attn	: Ro	Kirk								1					
Phone #: 575	-396-2378	Fax #: 575-396-14	129					Add	ress:					-		-							
Project #: 155	oject #: 15510 Project Owner: LLC			am,	City	:	_			1													
roject Name: Lobo 285 SWD Water Reuse				Stat	e:	2	Zip:	100-		11													
Project Location	n: UL/ A Sec 22 T2	55 - R28E						Pho	ne #:			CA:		12.7									
Sampler Name:	Dominic	Casarez						Fax	#:			TOE N			1								
FOR LAB USE ONLY				П	-	MATRI	IX	F	RESE	RV.	SAMPL	ING	1			5							
Lab I.D.	Sample		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BYEX 8021	Y							
PC //	FL 66 @   F	¥	C	Ц		V			V		10.11		V	V	V		-					_	-
12	FL 67 8 1 f	ł	4	4	_	1	M		1		1	1	11/	++	11	-	-	-	-			_	
13	FC 68 @ 1 F	7ŧ	11	H	-	11-	+			1			++	++	$\left  \right $	-	+			-			
14	FL 69 0 1 F	·ł	₽	H			+				1		++-	++	$\mathbb{H}$	+	-						+
15	FL 70 8 1 F	+	₩	HH			-				1		++-	H	H	1	+	-	-				+
19	NW2		₽	H	-		-				1	+	++-	11	11	-	+	-		-			+
18	EW3		₶	H	-	++-	-				1		11	H	11	1	1	1					
			1			11			N		1		11,	N/	N)								
			V	V		V			V		V		V	V	10								
analyses. All claims includi service. In no event shall C	nd Damages. Cardinal's liability and rig those for negligence and any of auditale be liable for incidental or co ing out of or related to the performa	iher cause whatsoever shell be o overquental demeges, including	eemed withou ardinal	waived Imitatic	nless me n, busines ss of whe	de in write se interrup	ing and r	received	by Cardi	nai withi	in 30 days after	completion of the ent, its subsidier ons or otherwate Phone Re Fax Resu REMA	esult: alt:	D Ye D Ye Emai	resul	No No ts to	Add'l	Phone Fax #: Detect	nenv.c	om			
	v: : (Circle One) - Bus - Other:	Date: Time:	Re 4/	<del>ce</del> tvi 40	Coc	The Contract of the Participation of the Participat	tact			ECKE (Initia	ED BY: als)	a t	to	P	d H	Re	le	10	n	101.	12/2	3C,	14

4.1



October 18, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/12/23 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 72 @ 3 IN. (H235589-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	QM-07
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	69.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 73 @ 3 IN. (H235589-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	65.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.6	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 74 @ 3 IN. (H235589-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 75 @ 3 IN. (H235589-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	74.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.6	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 76 @ 3 IN. (H235589-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	71.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 77 @ 3 IN. (H235589-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 78 @ 3 IN. (H235589-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 79 @ 3 IN. (H235589-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.0	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 80 @ 3 IN. (H235589-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	31.3	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 81 @ 3 IN. (H235589-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	34.4	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	67.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 82 @ 3 IN. (H235589-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 83 @ 3 IN. (H235589-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	<i>98.3</i>	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 84 @ 3 IN. (H235589-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 85 @ 3 IN. (H235589-14)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	51.6	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 86 @ 3 IN. (H235589-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 87 @ 3 IN. (H235589-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	81.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 88 @ 3 IN. (H235589-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/13/2023	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	70.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 89 @ 3 IN. (H235589-18)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	61.1	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	66.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.3	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 90 @ 3 IN. (H235589-19)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	68.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.1	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 91 @ 3 IN. (H235589-20)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	42.3	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	54.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.2	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

### Sample ID: FL 92 @ 3 IN. (H235589-21)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	67.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

### Sample ID: FL 93 @ 3 IN. (H235589-22)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	65.1	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	59.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.7	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 94 @ 3 IN. (H235589-23)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/18/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 95 @ 3 IN. (H235589-24)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64	
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	10/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	30.3	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	72.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

#### (575) 393-2326 FAX (575) 393-2476 Etech Environmental BILL TO ANALYSIS REQUEST **Company Name:** P.O. #: Joel Lowry Project Manager: Company: Solar Midstream Address: 3100 Plains Hwy 88260 State: NM Zip: Attn: Rob Kirk City: Lovington Address: Fax #: 575-396-1429 575-396-2378 Phone #: water wildstream Project Owner: LLC City: Project #: 15510 Project Name: Lobo 285 SWD Water Reuse State: NM Zip: Phone #: Project Location: Rural Eddy Pominic Casarle Fax #: Sampler Name: MATRIX PRESERV. SAMPLING FOR LAB USE ONLY (C)OMP. SROUNDWATER CONTAINERS VASTEWATER 8021 Sample I.D. **N** Lab I.D. Chloride CID/BASE CE / COOI SLUDGE BVEX G)RAB OTHER THER HAL SOIL 23558 DATE TIME 10-12 DU FL72 @ Jin C 2 1 a 73 3:1 7:0 P 3:0 e 311 76 3:1 3:1 0 nages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract o DI EACE NOTE: Liabi analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurrad by client, its subakilaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such aloim is based upon any of the above stated reasons or otherwise

Add'l Phone #: Phone Result: Yes O No **Relinguished By** Date Received By 10-12-63 □ Yes D No Add'l Fax #: Fax Result: Time /61 **REMARKS:** Email results to pm@etechenv.com Bust 24hes TPH on **Relinguished By:** Date: Received By: Time: CHECKED BY: Sample Condition Delivered By: (Circle One) Cool Intact (Initials) Yes Yes U Sampler - UPS - Bus - Other: NO D NO

† Cardinal cannot accept verbal changes. Please tax written changes to 575-393-2476 FORM-006 R 2.0

AM

Received by OCD: 10/30/2023 9:54:23



101 East Marland, Hobbs, NM 88240

	393-2326 FAX (575) 393-247 ch Environmental	0	BILL TO		ANALYSIS REQUEST
	I Lowry		P.O. #:		
Address: 3100 Plains			Company: Solar Midstream		
City: Lovington	State: NM	Zip: 88260	Attn: Rob <sub>i</sub> Kirk		
Phone #: 575-396-237		29	Address:		
Project #: 15510	Project Owner:	LLC	City:	1	
Project Name: Lobo 28			State: NM Zip:		
	al Eddy		Phone #:		
	binic Casure	2	Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		
Lab I.D. <i>H2355</i> 89	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OL	OTHER : ACID/BASE: ICE / COOL CE / COOL ATHER : ATHER :	Chloride TPH BTEX 8021	
DC 11 FL82	Le 3in	CI	10-12	1440	
12 A 8:	3 @ 3 in				
13 FL 80					
14 FL 8:					
15 FL 81					
16 EL 8					
17 FL 81					
18 FL 8					
19 FL 90			VI N	1010 k	
20 F-L 91 PLEASE NOTE: Liability and Damages.	Cardinal's liability and client's exclusive remedy for any	claim arising whether based in contract o	or tort, shall be limited to the amount paid by the client for	r the	
service. In no event shall Cardinal be liab	ole for incidental or consequental damages, including v	vithout limitation, business interruptions, le	received by Cardinal within 30 days after completion of oss of use, or loss of profits incurred by client, its subsidi	aries,	
affiliates or successors arising out of or re Relinquished By:		rdinal, regardless of whether such claim is Received By:	s based upon any of the above stated reasons or otherw	Result: Ves D	No Add'I Phone #:
Dorl	th Date: 10-1223	hamala	Fax Res		No Add'I Fax #:
0000	1000	Alland	Ullunge REM	ARKS: Email results	s to pm@etechenv.com
Relinquished By:	Date:	Received By:		HUS	1. 24 MRS TPH only
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Delivered By: (Circle	e One)	140 Sample Condit Cool Intact			
Sampler - UPS - Bus			s (ïnitïals)		
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Page 28 of 29

3.3° † Cardinal cannot accept verbal changes. Please tax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 10/30/2023 9:54:23 AM



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101 East Marland, Hobbs, NM 88240

Phone #:     575-396-2378     Fax #:     575-396-1429     Address:       Project #:     15510     Project Owner:     LLC     City:       Project Name:     Lobo 285 SWD Water Reuse     State: NM     Zip:       Project Location:     Rural Eddy     Phone #:     Phone #:       Sampler Name:     Dominic Casarca     Fax #:       For LAB USE ONLY     MATRIX     PRESERV.	ANALYSIS REQUEST
Address:       3100 Plains Hwy       Company:       Solar Midstream         City:       Lovington       State:       NM       Zip:       88260       Attn:       Rob Kirk         Phone #:       575-396-2378       Fax #:       575-396-1429       Address:       Address:         Project #:       15510       Project Owner:       LLC       City:         Project Name:       Lobo 285 SWD Water Reuse       State:       NM       Zip:       Phone #:         Project Location:       Rural Eddy       Phone #:       Phone #	
City:       Lovington       State:       NM       Zip:       88260       Attn:       Rob Kirk         Phone #:       575-396-2378       Fax #:       575-396-1429       Address:         Project #:       15510       Project Owner:       LLC       City:         Project Name:       Lobo 285 SWD Water Reuse       State:       NM       Zip:         Project Location:       Rural Eddy       Phone #:       Phone #:       Phone #:         Sampler Name:       Do Minic Cuby CL       Fax #:       SAMPLING	
Phone #:     575-396-2378     Fax #:     575-396-1429     Address:       Project #:     15510     Project Owner:     LLC     City:       Project Name:     Lobo 285 SWD Water Reuse     State: NM     Zip:       Project Location:     Rural Eddy     Phone #:     Phone #:       Sampler Name:     Dominic Cedaurci     Fax #:       For LAB USE ONLY     MATRIX     PRESERV.	
Project #:     15510     Project Owner:     LLC     City:       Project Name:     Lobo 285 SWD Water Reuse     State: NM     Zip:       Project Location:     Rural Eddy     Phone #:       Sampler Name:     D&Minic Casarct     Fax #:       FOR LAB USE ONLY     MATRIX     PRESERV.	
Project #:       15510       Project Owner:       LLC       City:         Project Name:       Lobo 285 SWD Water Reuse       State: NM       Zip:         Project Location:       Rural Eddy       Phone #:       Image: Comparison of the state of the	
Project Location:     Rural Eddy     Phone #:       Sampler Name:     Do Minic Coscret     Fax #:       FOR LAB USE ONLY     MATRIX     PRESERV.	
Sampler Name: DOMINIC COSARCE Fax #:	
Sampler Name: DOMinic Casare Fax #:	
FOR LAB USE ONLY MATRIX PRESERV. SAMPLING	
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	
PLEASE NOTE: Licently and Damages Canonina making where cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	
Affliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.           Relinguished By:         Date:         Received By:         Date:         Phone Result:         Yes	No Add'l Phone #:
Fax Result: Yes	No Add'I Fax #:
The Article Contraction Contra	
Relinquished By: Date: Received By:	24 hos TPH only
	0.
Delivered By: (Circle One) #1140 Sample Condition CHECKED BY:	
Delivered By: (Circle One)     #/40     Sample Condition     CHECKED BY:       Sampler - UPS - Bus - Other:     3.32     Ves     Yes	
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	and the second

Released to Imaging: 3/18/2024 9:58:55 AM

FORM-006 R 2.0



October 19, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 96 @ 3 IN. (H235612-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					
Surrogate: 1-Chlorooctane	70.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.0	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

### Sample ID: FL 97 @ 3 IN. (H235612-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					
Surrogate: 1-Chlorooctane	76.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 98 @ 3 IN. (H235612-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

### Sample ID: FL 99 @ 3 IN. (H235612-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 100 @ 3 IN. (H235612-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 101 @ 3 IN. (H235612-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	56.6	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 102 @ 3 IN. (H235612-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 103 @ 3 IN. (H235612-08)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	69.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 104 @ 3 IN. (H235612-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 105 @ 3 IN. (H235612-10)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 106 @ 3 IN. (H235612-11)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

### Sample ID: FL 107 @ 3 IN. (H235612-12)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 108 @ 3 IN. (H235612-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

#### Sample ID: FL 109 @ 3 IN. (H235612-14)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 16 @ 1 FT. (H235612-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/16/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	17.7	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: FL 18 @ 1 FT. (H235612-16)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/16/2023	ND	432	108	400	3.77	QM-07
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	46.5	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	16.5	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: NW 1 B (H235612-17)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	10/16/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	15.7	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	67.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

### Sample ID: EW 2 B (H235612-18)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	10/16/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	23.7	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Name	e: Etech Environmental & Safety Solut	tions	, Ind	C.						6	<u>IL</u>	L TO						ANAL	YSIS	REQ	UEST			
Project Manage	r:							P.0	). #:															
Address: 261	7 West Marland							Co	mpa	ny														
City: Hobbs	State: NM	Zip	: 88	240				At	n:					14			1.							
Phone #: (57	5) 264-9884 Fax #:					13	:22	Address: City:						4										
Project #:	Project Owner	r:	×	8	10	-1-		City:																
Project Name:	LODDA85 SWD WA	ter	-	Por	15	>		Sta	te:		z	ip:			(W)	18	24							
Project Location	n:	n Ci		w	na	-	1	-	one	#:		-	1913	Chloride	(1015M)	BTEX (8021B)								
Sampler Name:	Dominil Cashrei	2			-		-	-	ĸ #:		-	1	115	Ĕ	H	X	RUSH							
FOR LAB USE ONLY	Dertifit Castro	1	Г	<b>—</b>	M	ATR	X	-	_	SER	V.	SAMPLIN	IG	1	<u>a</u> :	E	13						1	
Lab I.D. 4235612	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	WHEN:	DATE	TIME				Y HOT							
DC /	F2 96 @ 3 in	C	1		1		1			1	T	0-13		V	~	V	IV	-						
2	FL 97 es in	1	1		1					1	Г			1	1	1								
3	FL 98 @ 3 ip	11														$\Box$	$\Pi$							
4	Fl 99 @ 3 in												1.000				11							
5	FC 100 e 3 in																							
4	F( 101 @ 3 in				1					11			1000	1									_	
7	FL 102 @ 3 in				1			1			L			1	11						-			
8	FC 103 0 3 in							A		11				4										
9	FL 104 @ 3 : A	1	1			,				1		1		V	V	4	1.1					_	_	
10	FL 105 0 3 A	V	U		C					U		0		0	V	0	V					1		
Nice. In no event shall C Nintes or successors arisi Relinquished Br Relinquished Br Delivered By:	V: Date: Time: Time:	ardinal Re	ceiv	ved E	ampl	er such	ptions, i			HEC		a incurred by cli inver elated rem	ent, ils subsidie	sult: It: S:	□ Ye	es 🗆		Add'I Ph Add'I Fa	x #:	20) Detec	rect		иМ Ш 3.2	

Received by OCD: 10/30/2023 9:54:23 AM



<b>Company Name</b>	: Etech Environmental									BIL	LL	TO			ANALYSIS REQUEST						
Project Manage	r: Joel Lowry						P	.0.						Т							
Address: 310	0 Plains Hwy						c	omp	any:	: :	Solar N	lidstream	1								
City: Lovingto	on State: NM	Zij	):	8826	0		A	Attn: Rob Kirk							-	-	4				
Phone #: 575	-396-2378 Fax #: 575-396							Address:									1	5			
Project #: 155	10 Project Owner:	0	Jians	LLC				City:					1				2	N			
Project Name:	Lobo 285 SWD Water Reuse				s			State: NM/ Zip:					-		5	1					
Project Location	n: Rural Eddy			-			P	hone	*				718	1	1	0.4		I.V	1		
Sampler Name:	Dominil Casa	- 1	2				F	ax #:					11.000	۱'		0.00		X	Chlorid		
FOR LAB USE ONLY			Π		MA	TRIX	_	PR	ESE	RV.	S	MPL	NG					N	41		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	ØIT	SCODGE	ACID/BASE:	ICE / COOL	QTHER :	D	ATE	TIME	Thomas	Chioryae	Н	BTEX 8021	Rush	RUSH		
DC 11	FL/06 agin	K	1		1			Τ	V		10	13			V	N	~/	V	5		
	FC 107 Ozin	I	I.		1				1						~	1	V	1/			
13	FL 108 Czin		Ш								1	_	-		V	N	V/	V	-		
14	FL119 Cyin	11	Ш	-	1					4		_	-	1	~	NV,	1	V/			
15	FILC   FA	-11	Ш		11		-	+		-					V	(1/	1	11	-		
14	FLIB @ 1 Ft	-11-	Ш	-	1		-	+	4	1	-			-	1	V/	1	V	-		
17	NW/B	-11-	Ш	-	11		-	+	11	-	-	-		+	1	V/	r /	1	V		
18	EWZB	-11-	₩	-			-	+		-	-			+	V	V	V	V	V		
		-		-	1	-	+		IA	-	-	1		+	-						
	d Damages. Cardinal's liability and client's exclusive remedy to	IV	LV		V		_		V		V			1	_						

Released to Imaging: 3/18/2024 9:58:55 AM

Page 22 of 22

Received by OCD: 10/30/2023 9:54:23 AM

Relinquished By:	Date: 10-13	Received By:	MAL	Phone Result: Fax Result:	Ves		Add'l Phone #: Add'l Fax #:	_
ann	Time: 1618	Allara 0	Eller	REMARKS:	Email re	sults to	pm@etechenv.com	
Relinquished By:	Date:	Received By:	11/					
	Time:							
Delivered By: (Circle One)	#1	40 Sample Condition	CHECKED BY: (Initials)			1		
Sampler - UPS - Bus - Other:	-1.1°	Ves Yes	40,	A A				



October 19, 2023

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: NW3 (H235617-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.93	96.4	2.00	0.735	
Toluene*	<0.050	0.050	10/17/2023	ND	1.99	99.7	2.00	0.757	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	2.13	106	2.00	0.320	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	6.38	106	6.00	0.531	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	SM4500CI-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	10/16/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	71.6	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	68.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.5	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: SW3 (H235617-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.93	96.4	2.00	0.735	
Toluene*	<0.050	0.050	10/17/2023	ND	1.99	99.7	2.00	0.757	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	2.13	106	2.00	0.320	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	6.38	106	6.00	0.531	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500Cl-B		ng/kg Analyzed By: AC		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/16/2023	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	60.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	51.3	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: WW4 (H235617-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05	
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97	
Total BTEX	<0.300	0.300	10/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B		/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/16/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	66.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	56.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: WW5 (H235617-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.89	94.7	2.00	3.05	
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/16/2023	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	69.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	61.8	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/13/2023	Sampling Date:	10/13/2023
Reported:	10/19/2023	Sampling Type:	Soil
Project Name:	LOBO 285 SWD WATER REUSE	Sampling Condition:	Cool & Intact
Project Number:	15510	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS UL / A SEC 22 T25S - R28E		

## Sample ID: SW2 (H235617-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.89	94.7	2.00	3.05	
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97	
Total BTEX	<0.300	0.300	10/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/16/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	83.1	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	47.6	10.0	10/16/2023	ND					
Surrogate: 1-Chlorooctane	64.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

Company Name: Etech Enviror	nmental	BI	LL TO		1	ANALYSIS	REQUEST
Project Manager: Joel Lowry		P.O. #:		X			
Address: 3100 Plains Hwy		Company:	Solar Midstream				
City: Lovington	State: NM Zip: 88260	Attn: Rob Kirl	k				
Phone #: 575-396-2378	Fax #: 575-396-1429	Address:					
Project #: 15510	Project Owner: LLC	City:				1	
Project Name: Lobo 285 SWD W	Vater Reuse	State: NM	Zip:			44	
Project Location: Rural Eddy		Phone #:				N	
Sampler Name: Pomin	ic Casaver	Fax #:				r	
	C) (G)RAB OR (C)OMP. A CONTAINERS GROUNDWATER WASTEWATER SCIII	A	DATE TIME	Chloride TPH		Low Kar	
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2 5W3 3 WW4	·····			11			
4 WWS	49			44	1		
5 SW2							
V)					1		
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analyses. All claims including those for negligence and a service. In no event shall Cardinal be liable for incidenta	ity and client's exclusive remedy for any claim arising whether bass any other cause whatsoever shall be deemed waived unless made to roomsquential damages, including without limitation, business in formance of services intervander by Carolinal, regardless of whether Date:	n writing and received by Cardinal wit terruptions, loss of use, or loss of pro	hin 30 days after completion of the fits incurred by client, its subsidia above stated reasons or otherwise Phone R Fax Resing REMA	ne applicable ries, e. esult: □ Ye	es 🗆 N	Add'I Fax #:	
Sampler - UPS - Bus - Other:	Cool	Intact (înit					

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

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# Appendix E Regulatory Correspondence

## **Ben Arguijo**

From: Sent:	Rodgers, Scott, EMNRD <scott.rodgers@emnrd.nm.gov> Thursday, September 21, 2023 5:50 PM</scott.rodgers@emnrd.nm.gov>
То:	Tamarah Kendrick; eco@slo.state.nm.us; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc:	Joel Lowry; Zach Conder
Subject:	RE: [EXTERNAL] nAPP2135135752 - Solaris Water Midstream - Sampling Notification - Lobo 285 Water Reuse

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113 505.469.1830 | <u>scott.rodgers@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd



From: Tamarah Kendrick <tamarah@etechenv.com>
Sent: Thursday, September 21, 2023 4:42 PM
To: eco@slo.state.nm.us; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Joel Lowry <joel@etechenv.com>; Zach Conder <zach@etechenv.com>
Subject: [EXTERNAL] nAPP2135135752 - Solaris Water Midstream - Sampling Notification - Lobo 285 Water Reuse

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

This email serves as notice Etech intends to conduct confirmation soil sampling for the following reportable release site beginning 09/26/2023.

nAPP2135135752 - Lobo 285 Water Reuse

If you have any questions or need any additional information, please feel free to contact Joel Lowry by phone or email.

Joel Lowry Etech Environmental Phone: 432-466-4450 joel@etechenv.com

Tamarah Kendrick

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Project Coordinator ETech - Environmental and Safety Solutions 2617 W. Marland Blvd Hobbs, NM 88240

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Environmental & Safety Solutions, Inc.

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	280791
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/18/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/18/2024

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Action 280791