

December 23, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request PLU Big Sinks 3-25-30

Incident Number nAPP2327751376

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the PLU Big Sinks 3-25-30 (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan* (*Work Plan*), was to address impacts to soil resulting from a release of produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number nAPP2327751376.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 03, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.15314°, -103.86766°; Figure 1) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On September 20, 2023, internal corrosion on a main produced water pipeline caused the release of approximately 182.86 barrels (bbls) of produced water onto the surface of the well pad and into the adjacent pasture area. A vacuum truck was dispatched and recovered 45 bbls of released fluids. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Notification of Release (NOR) on an Initial C-141 Application (C-141) on October 4, 2023. The release was assigned Incident Number NAPP2327751376.

Ensolum conducted Site assessment and delineation activities and presented the results in a *Work Plan*. The *Work Plan* was submitted on March 14, 2024, and approved by the NMOCD on March 29, 2024. The *Work Plan* proposed excavation of impacted and waste-containing soil identified during delineation activities. Delineation sample locations are depicted on Figure 2.

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XTO Energy, Inc PLU BS 3 25 30 Closure Request

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,000 mg/kg

Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applied to the top 4 feet of pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

EXCAVATION SOIL SAMPLING ACTIVITIES

Ensolum personnel were onsite from September 11, 2024 through November 15, 2024 to excavate impacted soil according to the approved Work Plan. Excavation activities were performed by use of heavy equipment. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 500 square feet, in accordance with the sampling variance approved in the Work Plan, from the floor and sidewall of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS20, FS22 through FS48, and FS50 through FS87 were collected from the floor of the excavation at a depth of 4 feet bgs. Confirmation soil samples FS21 and FS49 were collected from the floor of the excavation at a depth of 5 feet bgs and as such, the sidewalls of those isolated depths were incorporated into each composite soil sample. Confirmation soil samples SW01 through SW31 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500. Initial laboratory analytical results for excavation floor samples FS21 and FS49 indicated chloride concentrations exceeded the Closure Criteria. These sample locations were excavated further.

The final excavation extent measured approximately 34,575 square feet. A total of approximately 5,122 cubic yards of impacted soil was removed during the excavation activies. The impacted soil was transported and disposed of at Owl Landfill Service, LLC in Jal, New Mexico. The final excavation was fenced off pending backfill activities.

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LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final excavation floor and sidewall samples indicated COC concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Excavation activities were conducted at the Site as indicated in the *Work Plan* to address the September 2023 release of produced water. Laboratory analytical results for the final excavation soil samples collected indicate all COC concentrations were compliant with the Closure Criteria and reclamation requirement, where applicable. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation will be backfilled with material purchased locally and the Site recontoured to match pre-existing site conditions. Pasture areas will be reseeded with an approved BLM seed mixture and monitored for vegetation regrowth.

Excavation of soil has mitigated impacts exceeding the Closure Criteria and reclamation requirement at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2327751376.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC**

Sherele Brooks Staff Scientist

Merdy Burn

Ashley L. Ager, M.S., P.G. Principal

ashley L. ager

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

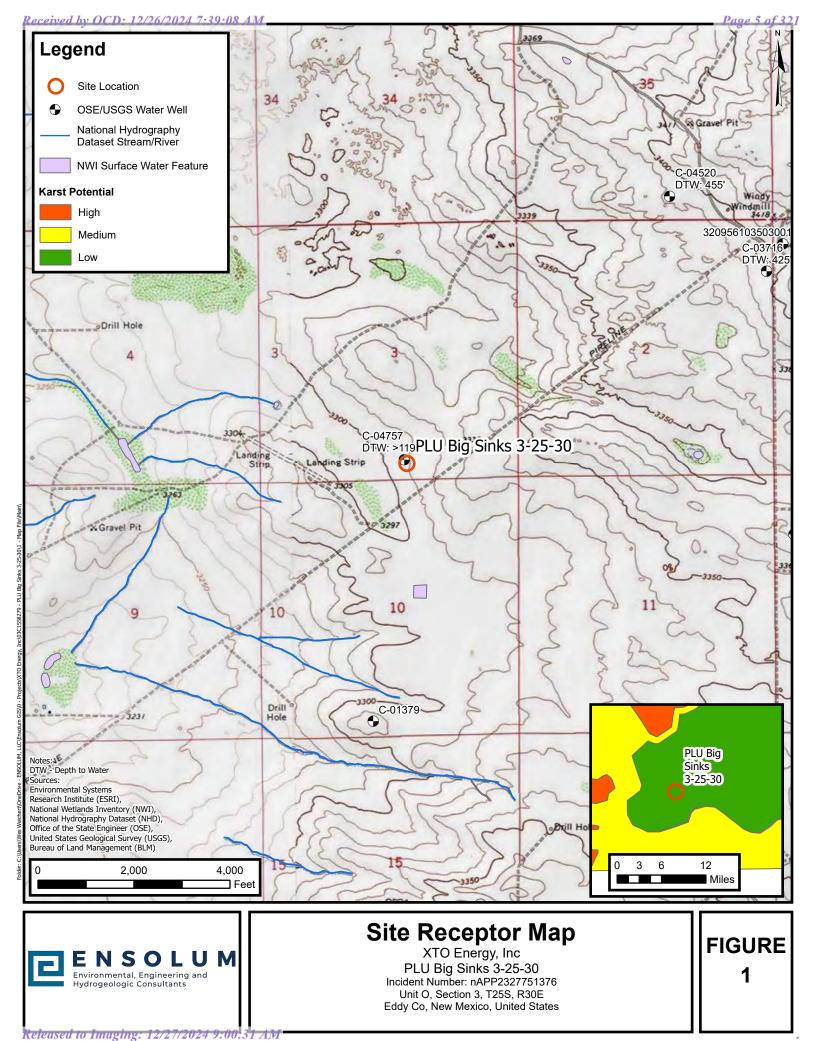
Appendix A Photographic Log

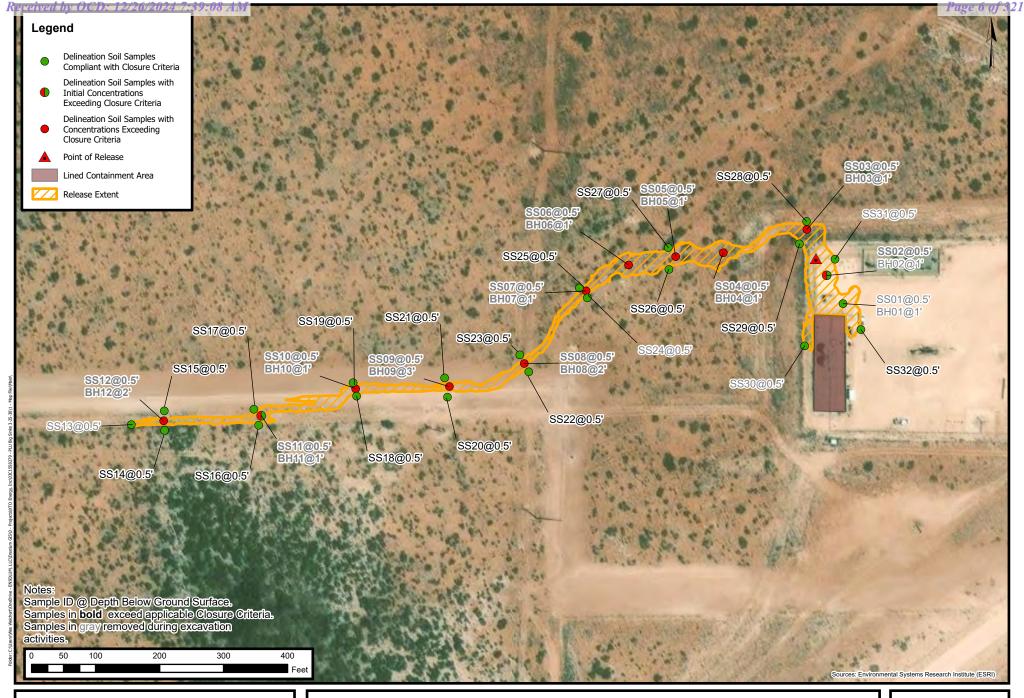
Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix C March 18, 2024 Remediation Work Plan



FIGURES



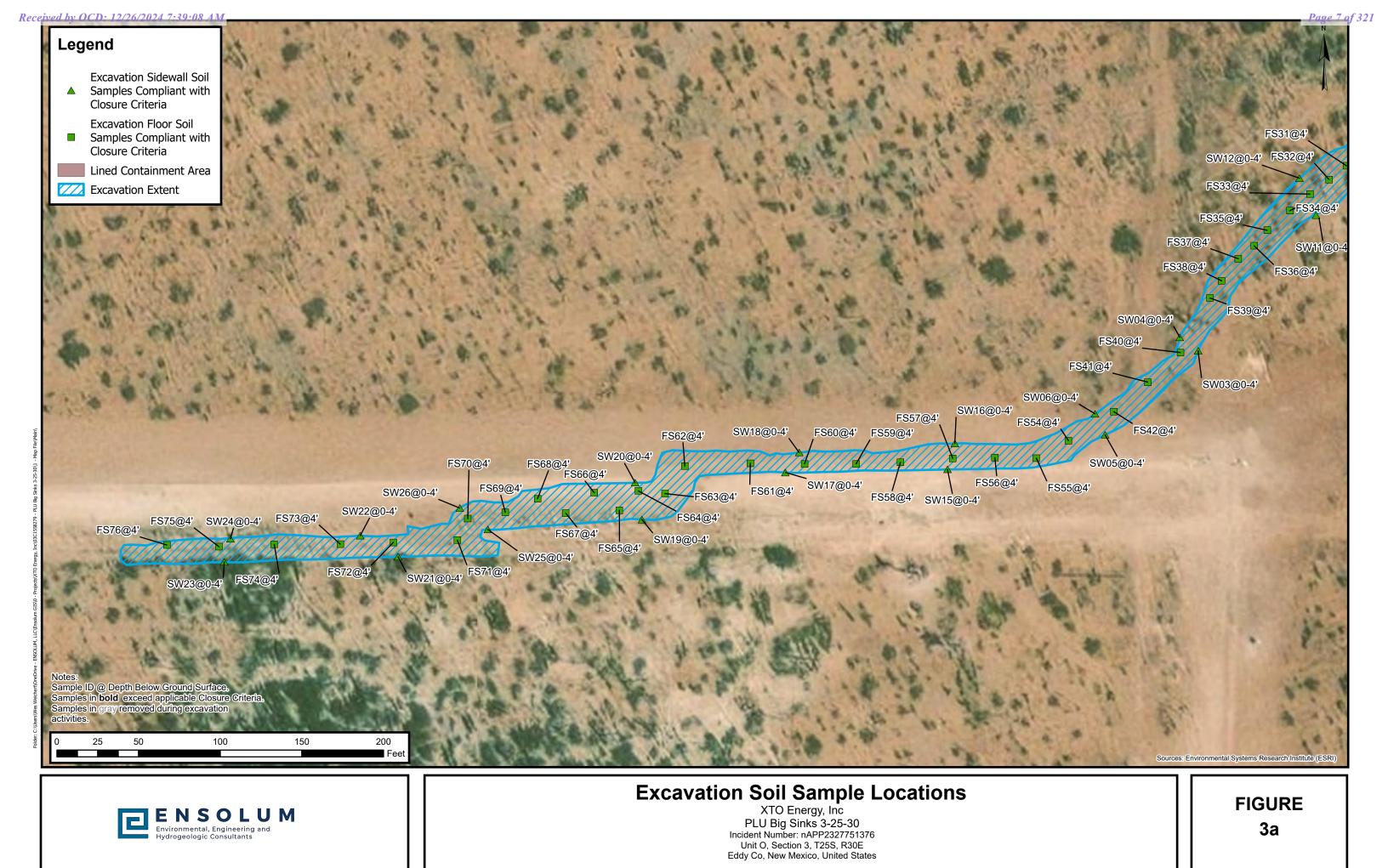




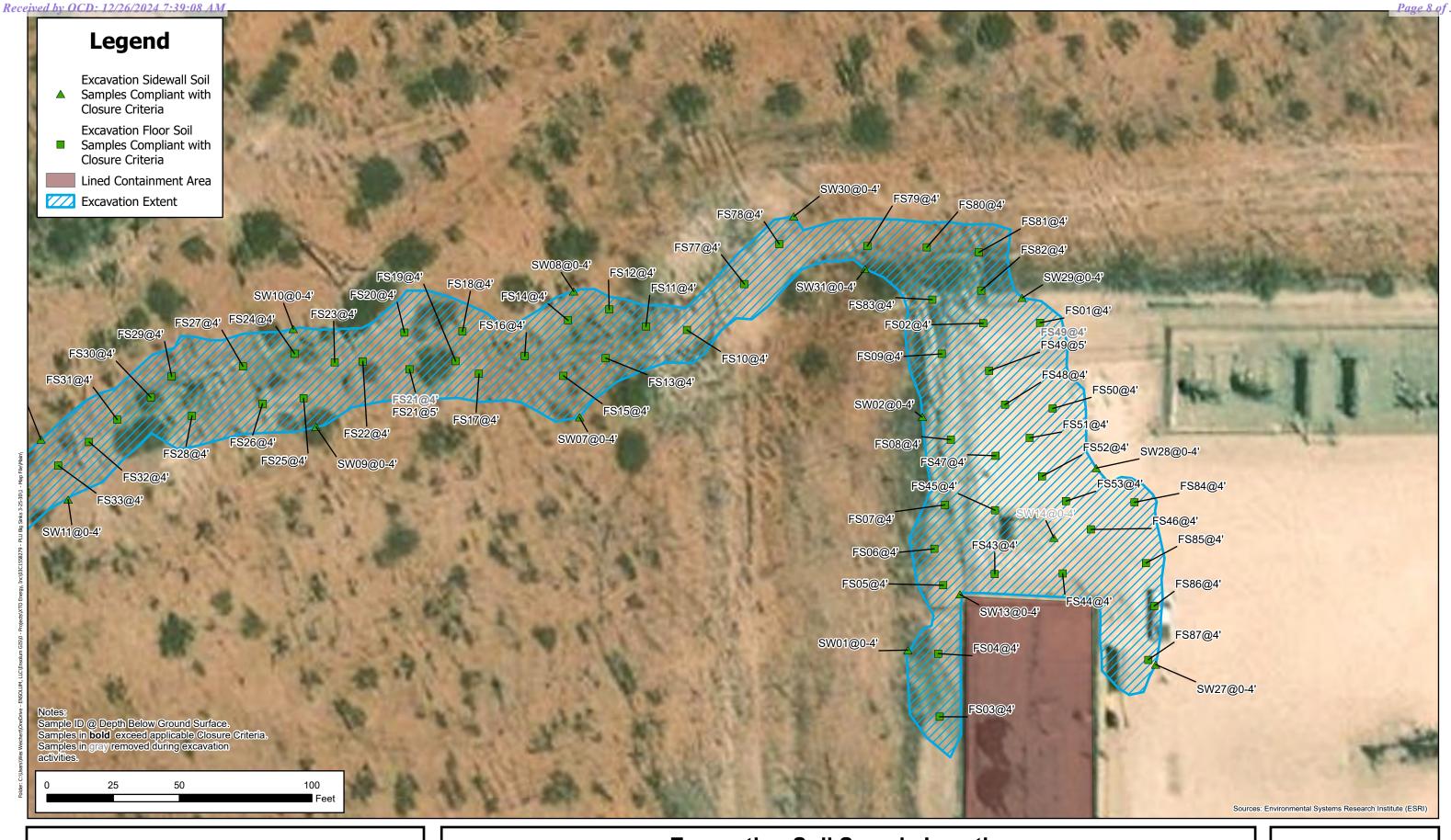
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Delineation Soil Sample Locations

XTO Energy, Inc PLU Big Sinks 3-25-30 Incident Number: nAPP2327751376 Unit O, Section 3, T25S, R30E Eddy Co, New Mexico, United States FIGURE 2



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Excavation Soil Sample Locations XTO Energy, Inc PLU Big Sinks 3-25-30 Incident Number: nAPP2327751376

Unit O, Section 3, T25S, R30E Eddy Co, New Mexico, United States **FIGURE** 3b



TABLES



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
SS01	10/13/2023	0.5	<0.00199	<0.00398	<49.6	81.6	<49.6	81.6	81.6	18,400
BH01	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,600
SS02	10/13/2023	0.5	<0.00200	<0.00399	98.7	271	< 50.5	370	370	29,600
BH02	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,480
SS03	10/13/2023	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	16,100
BH03	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
SS04	10/13/2023	0.5	<0.00198	<0.00396	<50.1	<50.1	<50.1	< 50.1	<50.1	7,430
BH04	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	< 10.0	<10.0	2,960
SS05	10/13/2023	0.5	<0.00201	<0.00402	<49.5	<49.5	<49.5	<49.5	<49.5	11,800
BH05	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,720
SS06	10/13/2023	0.5	<0.00200	<0.00401	<49.7	<49. 7	<49.7	<49.7	<49.7	8,440
BH06	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,680
SS07	10/13/2023	0.5	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	19,600
BH07	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
SS08	10/13/2023	0.5	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	26,800
BH08	03/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,880
SS09	10/13/2023	0.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	380
BH09	03/11/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,360
SS10	10/13/2023	0.5	<0.00201	<0.00402	<50.5	< 50.5	< 50.5	<50.5	<50.5	5,250
BH10	03/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,720
SS11	10/13/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
BH11	03/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS12	10/13/2023	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<4 9.6	<49.6	5,260
BH12	03/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,200
SS13	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SS15	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS17	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SS18	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS19	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SS20	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS21	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS22	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS23	03/11/2024	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
\$\$24	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS25	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS26	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS27	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS28	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS29	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS30	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS31	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS32	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
		1			irmation Soil Sa		ı	<u> </u>	I	l
FS01	09/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,640
FS02	09/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
FS03	09/18/2024	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,680
FS04	09/18/2024	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,760
FS05	09/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,640
FS06	09/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,240
FS07	09/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,440
FS08	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,130
FS09	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,400
FS10	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,100
FS11	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,130
FS12	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
FS13	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,120
FS14	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS15	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,440
FS16	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,720

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS17	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,400
FS18	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
FS19	10/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,200
FS20	10/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16,400
FS21	10/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	< 10.0	27,600
FS21	10/18/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,120
FS22	10/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,800
FS23	10/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,400
FS24	10/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,640
FS25	10/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,800
FS26	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
FS27	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,000
FS28	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,860
FS29	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,130
FS30	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,130
FS31	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,260
FS32	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,800
FS33	10/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,130
FS34	10/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800
FS35	10/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,530
FS36	10/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,300
FS37	10/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,500
FS38	10/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
FS39	10/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,060
FS40	10/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,600
FS41	10/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,330
FS42	10/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
FS43	10/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,100
FS44	10/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,700
FS45	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,400
FS46	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,920
FS47	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	18,200

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS48	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	17,400
FS49	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	22,600
FS49	10/17/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,800
FS50	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400
FS51	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,400
FS52	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,500
FS53	10/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,880
FS54	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,200
FS55	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,400
FS56	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,600
FS57	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,530
FS58	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,860
FS59	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,060
FS60	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,100
FS61	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,060
FS62	10/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,060
FS63	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,200
FS64	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,600
FS65	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
FS66	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,120
FS67	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,300
FS68	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,330
FS69	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,800
FS70	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
FS71	10/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,040
FS72	10/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
FS73	10/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS74	10/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320
FS75	10/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,280
FS76	10/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960
FS77	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,960
FS78	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,680

Ensolum 4 of 6



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS79	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
FS80	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
FS81	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
FS82	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,760
FS83	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,760
FS84	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880
FS85	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,280
FS86	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,230
FS87	11/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SW01	09/18/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW02	09/23/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW03	10/08/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW04	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW05	10/08/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW06	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW07	11/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW08	11/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW09	10/29/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW10	10/29/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW11	10/29/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW12	10/17/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SW13	10/09/2024	0-4	<0.050	<0.300	<10.0	47	22.9	47	69.9	7,600
SW14	10/09/2024	0-4	<0.050	<0.300	<10.0	<10.0	< 10.0	<10.0	<10.0	8,930
SW15	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW16	10/16/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW17	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW18	10/16/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW19	10/23/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SW20	10/23/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW21	10/21/2024	0-4	<0.050	<0.300	<20.0	<10.0	<10.0	<10.0	<10.0	320
SW22	10/16/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW23	10/18/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32

Ensolum 5 of 6



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SW24	10/18/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW25	10/22/2024	0-4	<0.050	<0.300	<20.0	<10.0	<10.0	<10.0	<10.0	240
SW26	10/18/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW27	11/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SW28	11/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW29	11/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW30	11/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SW31	11/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 6 of 6



APPENDIX A

Photographic Log



Photographic Log
XTO Energy, Inc
PLU Big Sinks 3-25-30
Incident Number: nAPP2327751376





Photograph 1 Date:09/13/2024 Description: Excavation activities in pasture.

View: West

Photograph 2 Date: 09/16/2024 Description: Excavation activities on north side of pad.

View: Northeast





Photograph 3

Date: 09/18/2024

Photograph 4

Date: 09/26/2024

Description: Excavation activities on west side of pad.

View: Southeast

Description: Excavation activities in pasture.

View: West



Photographic Log
XTO Energy, Inc
PLU Big Sinks 3-25-30
Incident Number: nAPP2327751376





Photograph 5 Date: 09/27/2024

Description: Excavation activites in pasture.

View: Southeast

Photograph 6 Date: 10/03/2024

Description: Excavation activities in pasture.

View: West





Photograph 7

Date: 10/04/2024

Photograph 8

Date: 10/07/2024

Description: Final excavation extent on pad.

View: Northeast

Description: Excavation activites in ROW.

View: West



Photographic Log
XTO Energy, Inc
PLU Big Sinks 3-25-30
Incident Number: nAPP2327751376





Photograph 9 Date: 10/18/2024

Description: Excavation activities in ROW.

View: West

Photograph 10 Date: 10/21/2024

Description: Excavation activities in ROW.

View: West





Photograph 11

Date: 11/15/2024

Photograph 12

Date: 11/15/2024

Description: Final excavation extent in pasture.

Description: Final excavation extent on pad. View: Southwest

View: Southwest



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



September 20, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

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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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date: 09/16/2024

Reported: 09/20/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: FS 01 4' (H245698-01)

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	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	09/20/2024	ND	400	100	400	7.69	
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	09/19/2024	ND	198	99.2	200	0.771	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	100	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date: 09/16/2024

Reported: 09/20/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

ma/ka

Sample ID: FS 02 4' (H245698-02)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/20/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	198	99.2	200	0.771	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	100	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	104 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/20/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: FS 03 4' (H245698-03)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	09/20/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	198	99.2	200	0.771	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	100	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/20/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558279 Tamara Oldaker

Project Location: XTO

Sample ID: FS 04 4' (H245698-04)

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	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	09/20/2024	ND	400	100	400	7.69	
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	09/19/2024	ND	198	99.2	200	0.771	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	100	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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with Sigh



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/20/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO

Sample ID: FS 05 4' (H245698-05)

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	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	09/20/2024	ND	400	100	400	7.69	
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	09/19/2024	ND	198	99.2	200	0.771	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	100	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	107 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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09/18/2024

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date:

Reported: 09/20/2024 Sampling Type: Soil Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Number: Sample Received By: 03C1558279 Tamara Oldaker

Project Location: XTO

Sample ID: FS 06 4' (H245698-06)

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	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	09/20/2024	ND	400	100	400	7.69	
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	09/19/2024	ND	208	104	200	0.426	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/20/2024 Sampling Type: Soil Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Coo

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: FS 07 4' (H245698-07)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	09/20/2024	ND	400	100	400	7.69	
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	09/19/2024	ND	208	104	200	0.426	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/19/2024 Sampling Date: 09/18/2024
Reported: 09/20/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: SW 01 0-4' (H245698-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/20/2024	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	09/19/2024	ND	208	104	200	0.426	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(5/5) 393-2326	FAX (5/5) 393-24/6	1/0					
Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO		ANALYSIS	REQUEST	
Project Manager:	Ben Belil	11		P.O. #:				
Address:3/22	Neta	Parks Hw	· Y	Company: XTO FAE	6194			
city:(a)5	15bad	State: N M	Sip: 88 220	Attn: Amy Roth	-			
4	18540852			Address: 3104 E. Greene	ene st			
Project #: 03	C1558279	4 Project Owner:	7	city: Car) shad				
Project Name: PL U	Sig		5-30	State: NMzip: 882	220			
Project Location: 32.	1531	1,-103.86766	766	Phone #:				
Sampler Name:	0	tillana		Fax #:	L			
FOR LAB USE ONLY			MATRIX	PRESERV, SAMPLING				
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CHIONED BTEX	TPH		
1	F501	4'	7	1 9/16/24	INSI XXX	_		
<i>n</i> -	£502)	-		1453			
Cu	FS03			-	H 35			
4	FOOT			170114	C 0 2 4			
,0	5506				IPPS!			
74	2054	4			1546			
000	SW01	0-4	+	A 3/18/24	1523 + 4	-		
								64
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Relinguished By:	By:	Time: 3/5	Received By	wara Malasa	Verbal Result: Pres All Results are emailed. Pl Bbc 1: 11 @ en50101	es □ No Add'i Phone #: I. Please provide Email address: しい M - COM しらなれた! と	Usant: 11 and & casolum.com	UM.COM
Relinquished By:	y:	Date:	Received By:		Inc. 1+1 ID: A0073777513	A00 7377751376	1376	
Delivered By: (Circle One)	ircle One)	Observed Temp. *C	1.7 Sample Condition	CHECKED BY: (Initials)	7 e	KL.	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	ion np. °C
Sampler - UPS - Bus - Other:	Bus - Other:	Corrected Temp. *C	// Ares A	8	Correction Factor 05°C		Yes	np. °C



September 27, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 09/26/2024
 Sampling Date:
 09/23/2024

 Reported:
 09/27/2024
 Sampling Type:
 Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 02 0-4' (H245846-01)

DTEV 0021D

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	09/26/2024	ND	1.88	94.1	2.00	0.721	
Toluene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.94	97.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.80	96.6	6.00	0.193	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/27/2024	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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/27/2024 Sampling Type: Soil
Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 08 4' (H245846-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	1.88	94.1	2.00	0.721	
Toluene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.94	97.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.80	96.6	6.00	0.193	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	09/27/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/27/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 09 4' (H245846-03)

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	09/26/2024	ND	1.88	94.1	2.00	0.721	
Toluene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.94	97.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.80	96.6	6.00	0.193	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	09/27/2024	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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



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

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Celey D. Keine

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed

Laboratories 101 East Marland, Hobbs, NM, 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Company Name: Ensolum, LLC						- 1	- 1	- 1	_			08	53	0	3	BILL TO	4	0	П		533	50			1		ANALYSIS REQUEST	≥	<	S I	"	찌	öl	⊆l	3	-1			
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Project #: 03C1558279	1558279	Project Owner:	7								0	ŧ l	city: Carlsbad	à	S	ba	a																							
Project Name: F	Project Name: PLU Big Sinks 3-25-30	-30									(O)	ta	State: NM	Z	3		Zip: 88220	00	8	2	9																			
Project Locatio	Project Location: 32.15314,-103.86766	6766									D	5	Phone #:	#																										
Sampler Name:	Sampler Name: Uriel Santillana										п	Fax #	#																											
FOR LAB USE ONLY				٦.	-	П	-	MATRIX	낌	$^{\circ}$	h	_ 5	PRESERV.	S	2	4	1	S	₽	힏	SAMPLING	۳/		5																_
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER		SOIL	OIL	SLUDGE	OTHER:		ACID/BASE:	ICE/COOL -	OTHER:	OTTILL.	-	DATE	m		=	TIME	m	Chloride	BTEX	TPH							160	12-1-						
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Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Corrected Temp. °C



September 30, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024 Reported: 09/30/2024 Soil

Sampling Type: Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 10 4' (H245847-01)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	09/27/2024	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 11 4' (H245847-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	09/27/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 12 4' (H245847-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	09/27/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 13 4' (H245847-04)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	09/27/2024	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

ma/ka

Project Name: PLU BIG SINKS 3-25-30

Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 14 4' (H245847-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/27/2024	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 15 4' (H245847-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	09/27/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 16 4' (H245847-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	09/27/2024	ND	400	100	400	0.00	QM-07
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 17 4' (H245847-08)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	09/27/2024	ND	400	100	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 18 4' (H245847-09)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	4800	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Notes and Definitions

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely

affected.

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name	Company Name: Ensolum, LLC			BILL TO		ANA	ANALYSIS RECITEST
Project Manager: Ben Belill	r: Ben Belill			P.O. #:			
Address: 3122	Address: 3122 National Parks Hwy	lwy		Company: XTO Energy	rgv		
city: Carlsbad		State: NM	Zip:88220	Attn: Amy Ruth			
Phone #: 9898	9898540852	Fax #:			Green st		
Project #: 03C1558279	1558279	Project Owner:	a	city: Carlsbad	3		
Project Name: F	Project Name: PLU Big Sinks 3-25-30	5-30		State: NM Zip: 88220	20		
Project Locatio	Project Location: 32.15314,-103.86766	86766					
Sampler Name:	Sampler Name: Uriel Santillana			Fay#	3		
FOR LAB USE ONLY			MATRIX	PRESERV SAN	SAMPLING		
			S ER			1	
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)C # CONTAINERS GROUNDWATE WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	Chlor	TPH	
~	F510	4'	X	X 9	-	*	
n	ES17	_			11071		
+1	F513				1104		
N	1153				2		
6	ES 15				1117		
24	100				1119		
000	-				1/21		
	1710	4	•	•	1123 + +	+	
analyses. All claims including an service. In no event shall Ca affiliates or successors arising	YLEASE NOTE: Lability and Damages, Cardinal's liability and client's exclusive rem analyses. All claims including those for negligence and any other cause whatsoever service. In no event shall Cardinal be liable for incidental or consequental demages affiliates or successors arising out of or related to the performance of services hazarr.	client's exclusive remedy for an er cause whatsoever shall be d sequental damages, including sequental damages, including	YLEASE NOTE: Lability and Damages, Cardinat's lability 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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved 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 demages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services becaused by Cardinal by Lienting and Lienti	or tort, shall be limited to the amount pa received by Cardinal within 30 days aften oss of use, or loss of profits incurred by	amount paid by the client for the © days after completion of the applicable curred by client, its subsidiaries,		
Relinquished By:)	Date: 24	Received By:	2011		No Add'l Phone #:	hone #:
00	LW.	Time: 348	Manuar o	Make	All results are emailed. Please provide Email address: Bbelill@ensolum.com tmorrissey@ensolum.com	m tmorrissey@	ensolum.com
reinquisned by:		Date:	Received By:	4	REMARKS: Cost center: 1140131001	nter: 114013	31001
Delivered By: (Circle One)		omp. °C	Sample Condition	on CHECKED BY:		1	t Number: nAPP2327751376
Sampler - UPS - Bus - Other		ô	1.9 Cool Infact Ples Pres	^	Thermometer ID #113-	# I CO	Cool Intact Observed Temp. °C
DIMINIST OF THE PARTY OF THE PA	COLUMN CAR				a		



October 04, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/03/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/03/2024 Sampling Date: 10/01/2024
Reported: 10/04/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Location: XTO 32.15314,-103.86766

03C1558279

Sample ID: FS 19 4' (H246023-01)

Project Number:

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	10/03/2024	ND	2.06	103	2.00	1.79	
Toluene*	<0.050	0.050	10/03/2024	ND	2.13	107	2.00	0.446	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.15	107	2.00	1.04	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.56	109	6.00	0.937	
Total BTEX	<0.300	0.300	10/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	10/04/2024	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	10/03/2024	ND	212	106	200	0.754	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	209	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					
Surrogate: 1-Chlorooctane	67.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/03/2024 Sampling Date: 10/01/2024

Reported: 10/04/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 20 4' (H246023-02)

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	10/03/2024	ND	2.06	103	2.00	1.79	
Toluene*	<0.050	0.050	10/03/2024	ND	2.13	107	2.00	0.446	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.15	107	2.00	1.04	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.56	109	6.00	0.937	
Total BTEX	<0.300	0.300	10/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	10/04/2024	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	10/03/2024	ND	212	106	200	0.754	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	209	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/03/2024 Sampling Date: 10/01/2024

Reported: 10/04/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 21 4' (H246023-03)

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	10/03/2024	ND	2.06	103	2.00	1.79	
Toluene*	<0.050	0.050	10/03/2024	ND	2.13	107	2.00	0.446	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.15	107	2.00	1.04	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.56	109	6.00	0.937	
Total BTEX	<0.300	0.300	10/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	10/04/2024	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	10/03/2024	ND	212	106	200	0.754	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	209	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/03/2024 Sampling Date: 10/02/2024

Reported: 10/04/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 22 4' (H246023-04)

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	10/03/2024	ND	2.06	103	2.00	1.79	
Toluene*	<0.050	0.050	10/03/2024	ND	2.13	107	2.00	0.446	
Ethylbenzene*	< 0.050	0.050	10/03/2024	ND	2.15	107	2.00	1.04	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.56	109	6.00	0.937	
Total BTEX	<0.300	0.300	10/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	10/04/2024	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	10/03/2024	ND	212	106	200	0.754	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	209	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/03/2024 Sampling Date: 10/02/2024

Reported: 10/04/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 23 4' (H246023-05)

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	10/03/2024	ND	2.06	103	2.00	1.79	
Toluene*	<0.050	0.050	10/03/2024	ND	2.13	107	2.00	0.446	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.15	107	2.00	1.04	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.56	109	6.00	0.937	
Total BTEX	<0.300	0.300	10/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	10/04/2024	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	10/03/2024	ND	212	106	200	0.754	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	209	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/03/2024 Sampling Date: 10/02/2024

Reported: 10/04/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 24 4' (H246023-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2024	ND	2.06	103	2.00	1.79	
Toluene*	<0.050	0.050	10/03/2024	ND	2.13	107	2.00	0.446	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.15	107	2.00	1.04	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.56	109	6.00	0.937	
Total BTEX	<0.300	0.300	10/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	10/04/2024	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	10/03/2024	ND	212	106	200	0.754	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	209	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/03/2024 Sampling Date: 10/02/2024

Reported: 10/04/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 25 4' (H246023-07)

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	10/03/2024	ND	2.06	103	2.00	1.79	
Toluene*	<0.050	0.050	10/03/2024	ND	2.13	107	2.00	0.446	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.15	107	2.00	1.04	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.56	109	6.00	0.937	
Total BTEX	<0.300	0.300	10/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	10/04/2024	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	10/03/2024	ND	212	106	200	0.754	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	209	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(5/5) 393-2326 F	(575) 393-2326 FAX (575) 393-2476		
Company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST
Project Manager: Sew Bell		P.O.#:	
Address: 3122 National Parks Hwy		Company: (TD Mary	
City: Carlsbad	State: NM Zip: 88220	Attn: Aprily Rictus	
Phone #: 989-854-0857	Fax#:	Address: Slot E Green St.	
Project #: CSC ISS8279	Project Owner:	city: Carlstand	
Project Name: PU BS	3-25-30	State: N.M. Zip: 88770	
Project Location:		Phone #: 575-88+752	
Sampler Name: Showell	Brooks		
	MP.	PRESERV. SAMPLING	de
Lab I.D. Sample I.D.	(feet) Depth G)RAB OR (C)OM CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER: DATE TIME BTEX	Chlori
2 75	4 04 X	X X 01/2 1/2 X X	
4 F577 4 F577		12/4 142/01	
5 TX25		10.28 20.21	
7 1525	\	T T [] T	
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Relinquished By: Relinquished By: Relinquished By: Relinquished By:	Date: Received By:		All Results are emailed. Please provide Email address:
Relinquished By:	Time: 400 Spool	ionul REMARKS:	
	, 7. J. s	ition CHECKED BY: Turnafound Time: (Initials) Thermometer ID	Bacteria (only) S Cool Intact Yes Yes
Sampler - UPS - Bus - Other: C	Corrected Temp. C / No No	Correction Eactor	いからいは



October 10, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/08/24 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 26 4' (H246101-01)

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	10/09/2024	ND	2.18	109	2.00	2.62	
Toluene*	<0.050	0.050	10/09/2024	ND	2.28	114	2.00	2.51	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.33	117	2.00	2.11	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	7.06	118	6.00	1.21	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 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	10000	16.0	10/09/2024	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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 27 4' (H246101-02)

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	10/09/2024	ND	2.18	109	2.00	2.62	
Toluene*	<0.050	0.050	10/09/2024	ND	2.28	114	2.00	2.51	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.33	117	2.00	2.11	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	7.06	118	6.00	1.21	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	13000	16.0	10/09/2024	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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 28 4' (H246101-03)

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	10/09/2024	ND	2.18	109	2.00	2.62	
Toluene*	<0.050	0.050	10/09/2024	ND	2.28	114	2.00	2.51	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.33	117	2.00	2.11	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	7.06	118	6.00	1.21	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	10/09/2024	ND	432	108	400	7.14	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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 29 4' (H246101-04)

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	10/09/2024	ND	2.18	109	2.00	2.62	
Toluene*	<0.050	0.050	10/09/2024	ND	2.28	114	2.00	2.51	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.33	117	2.00	2.11	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	7.06	118	6.00	1.21	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 30 4' (H246101-05)

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	10/09/2024	ND	2.18	109	2.00	2.62	
Toluene*	<0.050	0.050	10/09/2024	ND	2.28	114	2.00	2.51	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.33	117	2.00	2.11	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	7.06	118	6.00	1.21	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 31 4' (H246101-06)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 32 4' (H246101-07)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/03/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 33 4' (H246101-08)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/04/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 34 4' (H246101-09)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/04/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 35 4' (H246101-10)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/04/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 36 4' (H246101-11)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6300	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/04/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 03C1558279 Sample Received By:

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 37 4' (H246101-12)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/04/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 38 4' (H246101-13)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/04/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 39 4' (H246101-14)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	214	107	200	2.69	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	202	101	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	8						

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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

ecovery.

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: English 110	MA (0/0) 393-24/6		
3 5		BILL TO	ANALYSIS REQUEST
Tolect Manager: DM DOT	411	P.O. #:	
Address: 3122 National Parks Hwy		Company: XTD FULLE	
Phone #: XOQ9 QSU DSS 5	State: NM Zip: 88220	Attn: KNW /why	
	Project Owner:	City: (2) Shared	
Project Name: PUI BS 3-	3-25-30	State Nix Zip: 8872	
Project Location:		**	370
Sampler Name: Source	BOOKS	-	
FOR LAB USE ONLY			
Lab I.D. Sample I.D.	(feet) (f	SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	BTEX TPH Chloride
- L252		X 0 2 2 2	- X - X - X
4 FS74 5 FS30		On:21	500
7 532		S: 2(X 3
0 1500	1-	1 1	\$\frac{1}{4}
analyses. All claims including those for negligence and any other accuses visitory for any claim along whether based in contract or brit shall be limited to the amount paid by the client for the 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, affiliates 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.	unia assuawa remety for any claim attaing whether based in onthe cause whattoever shall be deemed waived unless made in writing quental damages, including without limitation, business interruption of services hereunder by Cardinal, regardiess of whether such old	any claim alraing whether based in contract or tort, shall be limited to the amount paid by the client for the se deemed waived unless made in writing and received by Cardinal within 30 days after completion of the a ng without limitation, business interruptions, loss of use, or loss of profis incurred by client, its subsidiaries, Cardinal, regardless of whether such claim is based upon any of the above stated reasons or oftenwise.	ont for the on the supplicable of the supplicable of the applicable of the supplicable of
Ballonished Bury Some	Keceived By:	5	Verbal Result: Ves No Add'l Phone #: All Results are emailed. Please provide Email address: ODE VIII OWN SOULM COM LA WOND SON BUNSOIUM L
diam'r.	Time:	REMARKS	RKS:
Sampler - UPS - Bus - Other: Co.	Observed Temp. CA.O: Sample Condition Cool Intact Corrected Temp. CA. W. No No	CHECKED BY: (Initials)	nd Time: Standard Bacteria (only) s
FURMIND K 3/2 ID/0//21	1		TICK CONTRACTOR

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Company Name: Ensolum, LLC Project Manager: 150M, 150M Address: 3122 National Parks Hwy	-			P.O. #:	Lander		ANALYSIS REC	REQUEST	-
City: Carlsbad		State: NM	Zip: 88220	Attn: Mily Cu	the				
Project #: 03015 St	# C.S.	Project Owner	NF.	Address: 5/04	Green St.				
Project Name: PL	J BS 3	25-3		State: N M Zip:	27.72				
Project Location:					W.Z.T. 700				
Sampler Name: Sh	unde 15	mous		Fax#:	00	_			_
FOR LAB LISE ONLY			MATRIX	ESERV.	SAMPLING	le			_
Lab I.D. Sar	Sample I.D.	Depth (feet)	G) (G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	Clubio			
26=an	TAN SAN		>	X Johol X	XXXX60 X	X			
PLEASE NOTE: Liability and Damages, Cardinal's liab	Cerdinal's liability and client	ity and client's exclusive remedy for any dain	y claim arising whether based in contract or tort, shall be limited to the	of bot, shall be limited to the amount on	A state district for the	1-			
service. In no event shall Cardinal be lable for noderntal or consequental dam efficients or successors arising out of or related to the performance of services. Relinquished By: Daje:	syngence and any other cau le for incidental or conseque ated to the performance of	ental damages, including services cunder by C.	service. In no event shall Cardinal be fable for incloderate or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Relinquished By: Relinquished By: Received By: Received By:	writing and received by Cardinal within 30 days after uptions, loss of use, or loss of profits incurred by or ch claim is based upon any of the above stated re	r completion of the applicable lient, its subsidieries, asons or otherwise.				
Relinquished By:	uh	Time:	SPOOR	Grand	All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address:	I. Please provide Email add	Add'i Phone #: ide Email address: 1. COM Hux	dress:	diam
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Corrected Tamp. Co. M.	Sample Condition Cool Intact Pes Yes No No	ON CHECKED BY:	Turnarqund Time: Thermometer ID #113-1 Correction Factor *0.5°C	Standard Rush Rush	Bacteria (only) Sample Condition Cool Infact Observed Temp. Upes Upes No Roccorrected Temp.	Ample Condition Observed Temp. °C	
1000	115.1	+ Cardinal ca	of account workel of					Corrected Temp. "C	

Page 18 of 18



December 18, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/10/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM Project: PLU BIG SINKS 3-25-30
3122 NATIONAL PARKS HWY Project Number: 03C1558279

3122 NATIONAL PARKS HWY Project Number: 03C1558279
CARLSBAD NM, 88220 Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS43 4'	H246167-01	Soil	09-Oct-24 14:07	10-Oct-24 14:25
FS44 4'	H246167-02	Soil	09-Oct-24 14:11	10-Oct-24 14:25
SW13 0-4'	H246167-03	Soil	09-Oct-24 14:52	10-Oct-24 14:25
SW14 0-4'	H246167-04	Soil	09-Oct-24 14:59	10-Oct-24 14:25

10/14/24 - BTEX was batched as a water instead of a soil reporting mg/L instead of mg/kg. This is the revised report with the correct units reported for BTEX and will replace the one sent one 10/11/24.

12/18/24 - Client changed the sample depths on -03 and -04 (see COC). This is the 2nd revision of the report and will replace the one sent on 10/14/24.

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30 Project Number: 03C1558279

Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

FS43 4' H246167-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	6100		16.0	mg/kg	4	4101124	HM	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101022	JН	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	77.5	-125	4101022	JH	10-Oct-24	8021B	
Petroleum Hydrocarbons by GC	CFID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			128 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			133 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279 Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

FS44 4' H246167-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	6700		16.0	mg/kg	4	4101124	НМ	11-Oct-24	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		105 %	77.5	-125	4101022	JH	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			123 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			128 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279 Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

SW13 0-4' H246167-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	7600		16.0	mg/kg	4	4101124	HM	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		106 %	77.5	-125	4101022	JH	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
DRO >C10-C28*	47.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	22.9		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			129 %	48.2	-134	4101023	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			135 %	49.1	-148	4101023	MS	11-Oct-24	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279

Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

SW14 0-4' H246167-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	8930		16.0	mg/kg	4	4101124	HM	11-Oct-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101022	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		106 %	77.5	-125	4101022	JH	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			129 %	48.2	-134	4101023	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			135 %	49.1	-148	4101023	MS	11-Oct-24	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279

Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4101124 - 1:4 DI Water										
Blank (4101124-BLK1)				Prepared &	Analyzed:	11-Oct-24				
Chloride	ND	16.0	mg/kg							
LCS (4101124-BS1)				Prepared &	: Analyzed:	11-Oct-24				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4101124-BSD1)				Prepared &	Analyzed:	11-Oct-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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Celey D. Keene



%REC

Limits

80.8-112

78.7-114

70.9-120

76.9-119

71.7-120

75.6-119

77.5-125

107

108

108

106

107

105

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Benzene

Toluene

Ethylbenzene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

m,p-Xylene

o-Xylene

Project: PLU BIG SINKS 3-25-30

Spike

Level

Source

Result

%REC

Project Number: 03C1558279

Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

RPD

Limit

8.26

9.03

11.9

11

15

12.2

8.90

9.33

9.29

9.58

9.38

QR-04

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

0.050

0.050

0.050

0.100

0.050

0.150

Result

2.06

2.13

2.16

4.33

2.11

6.45

0.0527

Blank (4101022-BLK1)				Prepared & Analy	yzed: 10-Oct-24		
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	0.0536		mg/kg	0.0500	107	77.5-125	
LCS (4101022-BS1)				Prepared & Analy	yzed: 10-Oct-24		
Benzene	1.89	0.050	mg/kg	2.00	94.4	80.8-112	
Toluene	1.95	0.050	mg/kg	2.00	97.6	78.7-114	
Ethylbenzene	1.97	0.050	mg/kg	2.00	98.4	70.9-120	
m,p-Xylene	3.95	0.100	mg/kg	4.00	98.7	76.9-119	
o-Xylene	1.92	0.050	mg/kg	2.00	96.0	71.7-120	
Total Xylenes	5.87	0.150	mg/kg	6.00	97.8	75.6-119	
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500	105	77.5-125	
LCS Dup (4101022-BSD1)				Prepared & Analy	vzed: 10-Oct-24		

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

2.00

2.00

4.00

2.00

6.00

0.0500

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%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: PLU BIG SINKS 3-25-30

Spike

Level

Source

Result

%REC

Project Number: 03C1558279
Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:19

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Blank (4101023-BLK1)				Prepared & Anal	lyzed: 10-Oct-24		
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0	117	48.2-134	
Surrogate: 1-Chlorooctadecane	58.2		mg/kg	50.0	116	49.1-148	
LCS (4101023-BS1)				Prepared & Anal	lyzed: 10-Oct-24		
GRO C6-C10	217	10.0	mg/kg	200	109	66.4-123	

0110 00 010	21,	10.0	6,6	200	10)	00125			
DRO >C10-C28	220	10.0	mg/kg	200	110	66.5-118			
Total TPH C6-C28	437	10.0	mg/kg	400	109	77.6-123			
Surrogate: 1-Chlorooctane	61.5		mg/kg	50.0	123	48.2-134			
Surrogate: 1-Chlorooctadecane	59.7		mg/kg	50.0	119	49.1-148			
LCS Dup (4101023-BSD1)				Prepared & Ana	lyzed: 10-Oct-24				
GRO C6-C10	216	10.0	mg/kg	200	108	66.4-123	0.705	17.7	
DRO >C10-C28	220	10.0	mg/kg	200	110	66.5-118	0.0322	21	
Total TPH C6-C28	436	10.0	mg/kg	400	109	77.6-123	0.333	18.5	
Surrogate: 1-Chlorooctane	60.4		mg/kg	50.0	121	48.2-134			
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0	116	49.1-148			

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Celey D. Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp.

19:

Sample Condition

CHECKED BY:

Turnaround Time: Standard

Incident Number: nAPP2327751376

Time:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1

101 East Marland, Hobbs, NM 88240

(575) 393-2326	575) 393-2326 FAX (575) 393-2476	6	-		ANALYSIS REQUEST	EST
Company Name: Ensolum, LLC			BILL 10			
Project Manager: Ben Belill		P	P.O. #:			
Address: 3122 National Parks Hwy	Hwy	0	Company: XTO Energy	rgy		
City: Carlsbad	State: NM	zip:88220	Attn: Amy Ruth			
Bhone #: 9898540852	Fax#:		Address: 3104 E Green St	een st		
Project #: 03C1558279	Project Owner:		city: Carlsbad			
Broject Name: PLU Big Sinks 3-25-30	25-30	60	State: NM Zip: 88220	220		
Broject Coation: 32 15314 -103.86766	3.86766		Phone #:			
Floject Location, Oz. 100			Eay #:		_	
Sampler Name: Uriel Santillana		MATRIX	PRESERV SA	SAMPLING		
Lab I.D. Sample I.D.	Depth (feet)	IDGE		Chlorid BTEX TPH		
Hatulet FS.13	d/	→ # C GR WA >< SO OIL SLI	× ici	XXX tohih		
0 5544	4.	X X	×	1411		
2	- N-H	X	×	1472		
FI MY	ナーイン	CVX	×	1459 V V		
1						
						\$
the control of the amount of the amount paid by the client or the amount paid by the client for the amount p	ly and client's exclusive remedy for a	ny claim arising whether based in contract	or tort, shall be limited to the amoun	t paid by the client for the applicable		
PLEASE NOTE: Lability and Damager's, Customs statemy and comment of the comment of the property of the comment	ny other cause whatsoever shall be or consequental damages, including formance of services hereunder by (oever shall be deemed walved unless made in witing and received by Gardinal within 20 oays and hages, included, without limitation, business interruptions, loss of use, or loss of profits incurred by hereunder by Cardinal regardless of whether such claim is based upon any of the above stated re	d received by Cardinal within 30 days loss of use, or loss of profits incurred is based upon any of the above state	H- Yes	No Add'I Phone #:	
Relinquished By:	Time:	Received By:	antimien !!	ine email	ed. Please provide Email address; antilla com tmorrissey@ensolum.com	isantillana@ensolum.com
Relinquished By:	Date:	Received By:	0	REMARKS: Cost cente	er: 1140131001	



December 18, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/10/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30 Project Number: 03C1558279

Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 40 4'	H246168-01	Soil	08-Oct-24 10:41	10-Oct-24 14:25
FS 41 4'	H246168-02	Soil	08-Oct-24 10:43	10-Oct-24 14:25
FS 42 4'	H246168-03	Soil	08-Oct-24 10:45	10-Oct-24 14:25
SW 03 0-4'	H246168-04	Soil	08-Oct-24 11:50	10-Oct-24 14:25
SW 05 0-4'	H246168-05	Soil	08-Oct-24 11:56	10-Oct-24 14:25

12/18/24 - Client changed the depths of -04 and -05 (see COC). This is the revised report and will replace the one sent on 10/14/24.

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279 Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:23

FS 40 4' H246168-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	7600		16.0	mg/kg	4	4101125	НМ	11-Oct-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101029	JН	11-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101029	JН	11-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		106 %	77.5	-125	4101029	ЈН	11-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			89.4 %	48.2	-134	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			98.0 %	49.1	-148	4101104	MS	11-Oct-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279
Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:23

FS 41 4' H246168-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	7330		16.0	mg/kg	4	4101125	HM	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	77.5	-125	4101029	JH	11-Oct-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			95.1 %	48.2	-134	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4101104	MS	11-Oct-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279

Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:23

FS 42 4' H246168-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	6000		16.0	mg/kg	4	4101125	HM	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		107 %	77.5	-125	4101029	ЈН	11-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			113 %	48.2	-134	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			125 %	49.1	-148	4101104	MS	11-Oct-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279 Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:23

SW 03 0-4' H246168-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4101125	HM	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		107 %	77.5	-125	4101029	JH	11-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			99.8 %	48.2	-134	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4101104	MS	11-Oct-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279 Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:23

SW 05 0-4' H246168-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	4101125	HM	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101029	JH	11-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	77.5	-125	4101029	JH	11-Oct-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			114 %	48.2	-134	4101104	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			127 %	49.1	-148	4101104	MS	11-Oct-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU BIG SINKS 3-25-30

Project Number: 03C1558279

Project Manager: BEN BELILL Fax To:

Reported: 18-Dec-24 15:23

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4101125 - 1:4 DI Water										
Blank (4101125-BLK1)				Prepared &	Analyzed:	11-Oct-24				
Chloride	ND	16.0	mg/kg							
LCS (4101125-BS1)				Prepared &	Analyzed:	11-Oct-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4101125-BSD1)				Prepared &	Analyzed:	11-Oct-24				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

m,p-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

o-Xylene

Project: PLU BIG SINKS 3-25-30

Spike

Level

4.00

2.00

6.00

0.0500

Source

Result

%REC

100

97.1

99.1

104

76.9-119

71.7-120

75.6-119

77.5-125

4.97

5.34

5.09

11

15

Project Number: 03C1558279
Project Manager: BEN BELILL

Fax To:

Reporting

Limit

Result

4.00

1.94

5.95

0.0522

0.100

0.050

0.150

mg/kg

mg/kg

mg/kg

mg/kg

Reported: 18-Dec-24 15:23

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Blank (4101029-BLK1)				Prepared: 10-Oct	t-24 Analyzed: 1	11-Oct-24			
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0530		mg/kg	0.0500	106	77.5-125			
LCS (4101029-BS1)				Prepared: 10-Oct	t-24 Analyzed: 1	11-Oct-24			
Benzene	1.99	0.050	mg/kg	2.00	99.3	80.8-112			
Toluene	2.06	0.050	mg/kg	2.00	103	78.7-114			
Ethylbenzene	2.09	0.050	mg/kg	2.00	105	70.9-120			
m,p-Xylene	4.21	0.100	mg/kg	4.00	105	76.9-119			
o-Xylene	2.05	0.050	mg/kg	2.00	102	71.7-120			
Total Xylenes	6.26	0.150	mg/kg	6.00	104	75.6-119			
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500	105	77.5-125			
LCS Dup (4101029-BSD1)				Prepared: 10-Oct	t-24 Analyzed: 1	11-Oct-24			
Benzene	1.94	0.050	mg/kg	2.00	97.1	80.8-112	2.22	8.26	
Toluene	1.98	0.050	mg/kg	2.00	99.1	78.7-114	3.77	9.03	
Ethylbenzene	2.01	0.050	mg/kg	2.00	100	70.9-120	4.27	11.9	

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%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: PLU BIG SINKS 3-25-30

Spike

Level

50.0

50.0

Source

Result

%REC

116

126

48.2-134

49.1-148

Project Number: 03C1558279
Project Manager: BEN BELILL

Fax To:

Reported: 18-Dec-24 15:23

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

58.0

62.8

Blank (4101104-BLK1)				Prepared & Anal	yzed: 11-Oct-24				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0	103	48.2-134			
Surrogate: 1-Chlorooctadecane	58.4		mg/kg	50.0	117	49.1-148			
LCS (4101104-BS1)				Prepared & Anal	yzed: 11-Oct-24				
GRO C6-C10	184	10.0	mg/kg	200	92.1	66.4-123			
DRO >C10-C28	182	10.0	mg/kg	200	91.2	66.5-118			
Total TPH C6-C28	367	10.0	mg/kg	400	91.7	77.6-123			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0	109	48.2-134			
Surrogate: 1-Chlorooctadecane	57.7		mg/kg	50.0	115	49.1-148			
LCS Dup (4101104-BSD1)				Prepared & Anal	yzed: 11-Oct-24				
GRO C6-C10	179	10.0	mg/kg	200	89.4	66.4-123	3.03	17.7	
DRO >C10-C28	179	10.0	mg/kg	200	89.7	66.5-118	1.63	21	
Total TPH C6-C28	358	10.0	mg/kg	400	89.6	77.6-123	2.33	18.5	

mg/kg

mg/kg

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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

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 12

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name	Company Name: Ensolum, LLC			BILLTO	
Project Manager: Ben Belill	r: Ben Belill			P.O. #:	AINT GIO AEGOEO
Address: 3122	Address: 3122 National Parks Hwy	lwy		Company: XTO Energy	
city: Carlsbad		State: NM	zip:88220	Attn: Amy Ruth	
Phone #: 9898540852	540852	Fax #:		Address: 3104 E Green st	
Project #: 03C1558279	1558279	Project Owner:	п	city: Carlsbad	
Project Name: F	Project Name: PLU Big Sinks 3-25-30	5-30		State: NM Zin: 88220	
Project Location	Project Location: 32.15314, -103.86766	.86766			
	This Countill			THOUGH.	5
Sampler Name:	Sampler Name: Uriel Santillana			Fax #:	7
FOR LABUSE ONLY			MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER: DATE	Chlori TPH BTEX
J-	ESHO	4	1 X	12/8/01 X	
10	1454	7		1043	13
U	246	2		Shoi	5
4	5003	ロナーエ、		1150	0
U	Some	0X-4.	*	9511 4 4	6
PLEASE NOTE: Liability and analyses. All claims includin service. In no event shall Ca affiliates or successors arisin	and Damages, Cardinal's liability and ding those for negligence and any oth Cardinal be liable for incidental or con sing out of or related to the performan	client's exclusive remedy for an er cause whatsoever shall be d sequental damages, including ce of services hereunder by C:	y claim arising whether based in contract reemed waived unless made in writing an without limitation, business interruptions,	PLEASE NOTE: Lability and Damages, Cardinal's liability and client's oxclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatboever 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 corresponded damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or relabled to the performance of services because of the contract of the performance of services because of the performance of the performance of services because of the performance	nt for the of the applicable eidavies,
Relinquished By		Date: 1024 Time: 425	Policing of the above of the ab	stated re	Soon of otherwise. Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Bbelill@ensolum.com tmorrissey@ensolum.com
Relinquished By:		Date:	Received By:	0	rks: Cost center: 1140131001

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Incident Number: nAPP2327751376

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Corrected Temp. °C



October 14, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 9:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024 Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 45 4' (H246195-01)

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	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	10/11/2024	ND	432	108	400	0.00	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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	74.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 46 4' (H246195-02)

BTEX 8021B

	979		7,=0 = 7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/11/2024	ND	432	108	400	0.00	
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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 47 4' (H246195-03)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18200	16.0	10/11/2024	ND	432	108	400	0.00	
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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: Sampling Type: Soil 10/14/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 48 4' (H246195-04)

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	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 77.5-12	5						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17400	16.0	10/11/2024	ND	432	108	400	0.00	
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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 49 4' (H246195-05)

RTFY 8021R

Result < 0.050 < 0.050 < 0.050	Reporting Limit 0.050 0.050	Analyzed 10/11/2024 10/11/2024	Method Blank	BS 2.04	% Recovery	True Value QC	RPD	Qualifier
<0.050				2.04	102	2.00		
	0.050	10/11/2024			-02	2.00	5.54	
<0.050		• •	ND	2.10	105	2.00	4.99	
	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
<0.300	0.300	10/11/2024	ND					
106	% 77.5-12	5						
mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
22600	16.0	10/11/2024	ND	432	108	400	0.00	
mg,	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/11/2024	ND	184	92.1	200	3.03	
<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
<10.0	10.0	10/11/2024	ND					
87.3	% 48.2-13	4						
94.9	% 49.1-14	8						
	<0.150 <0.300 106 9 mg/ Result 22600 mg/ Result <10.0 <10.0 <87.3	<0.150 0.150 <0.300 0.300 106	<0.150	<0.150 10/11/2024 ND 106 % 77.5-125 mg/ky Analyzed By: AC Result Reporting Limit Analyzed Method Blank 22600 16.0 10/11/2024 ND mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0 10.0 10/11/2024 ND	<0.150	<0.050	<0.050	<0.050

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 50 4' (H246195-06)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	10/11/2024	ND	432	108	400	0.00	
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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 51 4' (H246195-07)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	10/11/2024	ND	432	108	400	0.00	
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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 52 4' (H246195-08)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 77.5-12	5						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	10/11/2024	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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	86.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/14/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 53 4' (H246195-09)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.08	104	2.00	2.47	
Toluene*	<0.050	0.050	10/11/2024	ND	2.05	102	2.00	3.56	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.12	106	2.00	4.60	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.35	106	6.00	4.81	
Total BTEX	<0.300	0.300	10/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 77.5-12	5						
Chloride, SM4500CI-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	10/11/2024	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	10/11/2024	ND	184	92.1	200	3.03	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	182	91.2	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(010) 000 2020	1000 (010) 000	110						
Company Name: Ensolum, LLC	: Ensolum, LLC			BILL TO			ANALYSIS RE	REQUEST	
Project Manager: Ben Belill	r: Ben Belill			P.O. #:					
Address: 3122	Address: 3122 National Parks Hwy	Hwy		Company: XTO Energy	ду				
city: Carlsbad		State: NM	zip:88220	Attn: Amy Ruth			_		
Phone #: 9898	9898540852	Fax #:		111	Green st				
Project #: 03C1558279	1558279	Project Owner:	37:	city: Carlsbad		_	_		
Project Name: P	Project Name: PLU Big Sinks 3-25-30	-25-30		State: NM Zip: 88220	20				
Project Location	Project Location: 32.15314, -103.86766	3.86766		Phone #:					
Sampler Name: Uriel Santillana	Uriel Santillana			Fax #:	0				
FOR LAB USE ONLY			MATRIX	PRESERV. SAM	SAMPLING	X 1			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Chlori	BTE			
1	F545	4,	1 X	X	11325 X	XX			
2	F546					-			
W	ナトらら				1319				
4	Shea				1314				
S	F549				1317				
6	F550				1310				
7	1-251				100+				
20(F552				1304				
7	F353	4	*	4	1 2001	4			i
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Relinquished By:	led By:		Date: Received By:		Verbal Result: All Results are en Bbelill@ensol	☐ Yes ☐ No inailed. Please providum.com tmorris	Add'I Phone #: ide Email address: US: issey@ensolum.o	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: USantillana@ensolum.com Bbelill@ensolum.com tmorrissey@ensolum.com	dum.com
Relinquished By:	×	Date: 11-20	Received By:	ignest	REMARKS: Cost	en ce	40131001 C nAPP2327	751376	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	ircle One) Bus - Other:	Observed Temp. *C Corrected Temp. *C	Sample Co Cool Inte	ndition CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #143	Turnaround Time: Standard Thermometer ID The Rush	Bacteria (only) Cool Intact	(n	ຳ ດີ
- o To - Indillipe	Dus - Other.	Collected lemb.) · / c	No.	Correction Factor	25C 1 101	No I No	Corrected Temp. °C	o. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





October 15, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 54 4' (H246221-01)

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	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 55 4' (H246221-02)

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	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 56 4' (H246221-03)

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	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 57 4' (H246221-04)

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	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: Sampling Type: Soil 10/15/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 58 4' (H246221-05)

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	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 59 4' (H246221-06)

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	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 60 4' (H246221-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5100	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 61 4' (H246221-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	10/14/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/11/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 62 4' (H246221-09)

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	10/14/2024	ND	2.14	107	2.00	2.78	
Toluene*	<0.050	0.050	10/14/2024	ND	2.05	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.13	102	6.00	3.53	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	5060	16.0	10/14/2024	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	10/14/2024	ND	224	112	200	3.30	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	224	112	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 F	(575) 393-2326 FAX (575) 393-2476	2011	ANALYSIS REQUEST
Company Name: Ensolum, LLC		DILL 10	
Project Manager: Ben Belill		P.O. #:	
Address: 3122 National Parks Hwy		Company: XIO Energy	
city: Carlsbad	State: NM Zip: 88220	Attn: 104 F Green st	27
Phone #: 9898540852	Fax #:	Address: Olor L Cicii	
Project #: 03C1558279	Project Owner:	0	
Project Name: PLU Big Sinks 3-25-30		State: NM Zip: 00220	
Project Location: 32.15314, -103.86766	66	Phone #:	
I Iriel Santillana		Fax #:	
Sampler Name: Offer Samularia	MATRIX	PRESERV. SAMPLING	
FOR LAB USE ONLY	2		rid X H
Lab I.D. Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	Chlor BTE
Marylox F554	1 ×	X 10/11/24	1235 X X X
8 6555			1123
1553			1122
5 558			401
10003			1000
8 5561		<	101 4 4
7963 6	A stand to contra	head in contract or fort, shall be limited to the amount paid b	unit pald by the client for the
analyses. All claims including those for negligence and any sensitive in no event shall Cardinal be liable for incidental or	analyses. All claims including those for negligence and any other cause whatsoever stab be deemed warver unersemblers, loss of use, or loss of profits incurred by client, its subsidiaries, analyses. All claims including those for negligence and any other cause whatsoever shall be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, searches in no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, searches whether the control of the above stated reasons or otherwise.	s, loss of use, or loss of profits incurred by die m is based upon any of the above stated reaso	
affiliates or successors arising out of or related to the perform Relinquished By:	Date: 11-24 Received By:		re emailed. Please provinsolum.com tmorri
Relinquished By:	Date: Received By:		REMARKS: Cost center: 1140131001 Incident Number: nAPP2327751376
Delivered By: (Circle One)	Observed Temp. *C Cool Intact Corrected Temp. *C Cool Intact C	CHECKED BY: (Initials)	Turnaround Time: Stationary Cool Intact Cool Intact Observed Temp. °C Thermometer ID #413 #/40 Correction Factor -0.5°C -0.0°C PP No No Corrected Temp. °C
FURM-000 R 3.2 10/07/21	and the second works of	hanges. Please email chan	The largest accept workal changes. Please email changes to celey.keene@cardinallabsnm.com



October 21, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/17/24 14:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: 10/21/2024 Sampling Type: Soil Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Coo

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 63 4' (H246357-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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Celey D. Keens



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: Sampling Type: Soil 10/21/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 64 4' (H246357-02)

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	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: Sampling Type: Soil 10/21/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 65 4' (H246357-03)

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	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: Sampling Type: Soil 10/21/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 66 4' (H246357-04)

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	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	100 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: Sampling Type: Soil 10/21/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 67 4' (H246357-05)

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	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: Sampling Type: Soil 10/21/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 68 4' (H246357-06)

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	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: 10/21/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 69 4' (H246357-07)

RTFY 8021R

Result (0.050 (0.050	Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	10/10/2021			,		INI D	Qualifier
0.050		10/18/2024	ND	2.27	113	2.00	1.26	
	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
0.300	0.300	10/18/2024	ND					
113 %	6 71.5-13-	4						
mg/	kg	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
.3800	16.0	10/18/2024	ND	432	108	400	3.64	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/18/2024	ND	188	93.9	200	2.34	
<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
<10.0	10.0	10/18/2024	ND					
93.4 %	% 48.2-13-	4						
05.70	40 1 14	0						
R <	mg/ esult 10.0 10.0 10.0	mg/kg esult Reporting Limit 10.0 10.0 10.0 10.0 10.0 10.0 93.4 % 48.2-13-4	mg/kg Analyze esult Reporting Limit Analyzed 10.0 10.0 10/18/2024 10.0 10.0 10/18/2024 10.0 10.0 10/18/2024 93.4 % 48.2-134	mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank 10.0 10.0 10/18/2024 ND 10.0 10.0 10/18/2024 ND 10.0 10.0 10/18/2024 ND	mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank BS 10.0 10.0 10/18/2024 ND 188 10.0 10.0 10/18/2024 ND 191 10.0 10.0 10/18/2024 ND 93.4 %	mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank BS % Recovery 10.0 10.0 10/18/2024 ND 188 93.9 10.0 10.0 10/18/2024 ND 191 95.4 10.0 10.0 10/18/2024 ND V 48.2-134	mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 10.0 10.0 10/18/2024 ND 188 93.9 200 10.0 10.0 10/18/2024 ND 191 95.4 200 10.0 10.0 10/18/2024 ND V 48.2-134	mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 10.0 10.0 10/18/2024 ND 188 93.9 200 2.34 10.0 10.0 10/18/2024 ND 191 95.4 200 5.16 10.0 10.0 10/18/2024 ND ND 93.4 % 48.2-134

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: Sampling Type: Soil 10/21/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 70 4' (H246357-08)

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	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	99.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/17/2024 Sampling Date: 10/16/2024

Reported: Sampling Type: Soil 10/21/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 71 4' (H246357-09)

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	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	3040	16.0	10/18/2024	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	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Celeg D. Freene



Notes and Definitions

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely

affected.

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 F	(575) 393-2326 FAX (5/5) 393-24/6		-	ANALYSIS REQUEST
Company Name: Ensolum, LLC			BILL 10	THE PARTY OF THE P
Project Manager: Ben Belill		P.O.#:	*	
Address: 3122 National Parks Hwy			Company: XTO Energy	
city: Carlsbad	State: NM	Zip:88220 Attn	Attn: Agengy Ruthy Colton	264A
Phone #: 9898540852	Fax #:	Add	Address: 3104 E Green st	nst
Project #: 03C1558279	Project Owner:	City	city: Carlsbad	
Project Name: PLU Big Sinks 3-25-30	5-30	Stat	State: NM Zip: 88220	
Project Location: 32.15314, -103.86766	.86766	Pho	Phone #:	
Sampler Name: Uriel Santillana		Fax #:		e
FOR LAB USE ONLY	P.	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Chloric
F563	Om 4' C	1 X	X 10/16/241	1059 X X X 4501
9 E264				0)7
3 F565				
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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8953				70
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1453	+	4	4	123 4 4 4
				a that effect for the
PLEASE NOTE: Lability and Damages. Cardinal's lability 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; Lability and Damages. Cardinal's lability and client's exclusive remedy for any clear analyses. All claims including those for negligance 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 analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in writing and received up (Cardinal within 30 days after completion of the applicable analyses. All claims in shall Cardinal be liable for incidental or consequential damages, including without limitation, business intemplicant, loss of use, or loss of profits incurrently client, its subclosures.	nd client's exclusive remedy for any clain other cause whatsoever shall be deemed consequental damages, including without	n arising whether based in contract or tort d waked unless made in writing and recei d limitation, business interruptions, loss of	shall be limited to the amount paid to wed by Cardinal within 30 days after or use, or loss of profits incurred by cife and upon saw of the above stated reas	
Relinquished By:	Time:	Received By:		Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address is antillana@ensolum.com Bbelill@ensolum.com tmorrissey@ensolum.com
Relinquished By:		Received By:		REMARKS: Cost center: 1140131001 Incident Number: nAPP2327751376
Delivered By: (Circle One)	Observed Temp. *C	Sample Condition Cool Intact Pes Pyes	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition (Cool Intact Observed Temp. °C Thermometer ID #413 #/ L/B Correction Factor 45°C - (7) (C) (Correction Factor 45°C - (7) (C) (Correction Factor 45°C - (7) (C) (C) (C) (C) (C) (C) (C) (C)



October 21, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/18/24 16:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/17/2024

Reported: 10/21/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 49 5' (H246397-01)

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	10/18/2024	ND	1.68	83.9	2.00	23.6	
Toluene*	<0.050	0.050	10/18/2024	ND	1.66	83.2	2.00	21.5	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	1.74	87.0	2.00	18.8	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	5.18	86.4	6.00	18.6	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	10/21/2024	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	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/17/2024

Reported: 10/21/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 12 0-4' (H246397-02)

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	10/18/2024	ND	1.68	83.9	2.00	23.6	
Toluene*	<0.050	0.050	10/18/2024	ND	1.66	83.2	2.00	21.5	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	1.74	87.0	2.00	18.8	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	5.18	86.4	6.00	18.6	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/21/2024	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	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/16/2024

Reported: 10/21/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 16 0-4' (H246397-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	1.68	83.9	2.00	23.6	
Toluene*	<0.050	0.050	10/18/2024	ND	1.66	83.2	2.00	21.5	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	1.74	87.0	2.00	18.8	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	5.18	86.4	6.00	18.6	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/21/2024	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	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Celey & Keens



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/16/2024

Reported: 10/21/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 18 0-4' (H246397-04)

RTFY 8021R

Result 0.050	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	DDD	
0.050			r received Blank	55	% Recovery	True value QC	RPD	Qualifier
	0.050	10/19/2024	ND	1.68	83.9	2.00	23.6	
0.050	0.050	10/19/2024	ND	1.66	83.2	2.00	21.5	
0.050	0.050	10/19/2024	ND	1.74	87.0	2.00	18.8	
0.150	0.150	10/19/2024	ND	5.18	86.4	6.00	18.6	
0.300	0.300	10/19/2024	ND					
105 %	6 71.5-13-	4						
mg/	kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
112	16.0	10/21/2024	ND	432	108	400	3.64	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
10.0	10.0	10/21/2024	ND	193	96.5	200	0.960	
10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
10.0	10.0	10/21/2024	ND					
93.0 %	% 48.2-13-	4						
1	mg/ esult 10.0 10.0	12 16.0 mg/kg esult Reporting Limit 10.0 10.0 10.0 10.0 10.0 10.0	Interpretation Interpretation Interpretation Interpretatio	Interpretation 10.0 10/21/2024 ND Img/kg Analyzed By: MS Incomplete Analyzed Method Blank Incomplete 10.0 10/21/2024 ND Incomplete 10.0 10/21/2024 ND Incomplete 10.0 10/21/2024 ND Incomplete 10.0 10/21/2024 ND	112 16.0 10/21/2024 ND 432 mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank BS 10.0 10.21/2024 ND 193 10.0 10.0 10/21/2024 ND 189 10.0 10/21/2024 ND	112 16.0 10/21/2024 ND 432 108 mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank BS % Recovery 10.0 10.0 10/21/2024 ND 193 96.5 10.0 10.0 10/21/2024 ND 189 94.6 10.0 10.0 10/21/2024 ND	12 16.0 10/21/2024 ND 432 108 400 mg/kg Analyzed By: MS esult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 10.0 10.0 10/21/2024 ND 193 96.5 200 10.0 10.0 10/21/2024 ND 189 94.6 200 10.0 10.0 10/21/2024 ND	12 16.0 10/21/2024 ND 432 108 400 3.64 mg/kg

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Celey D. Kreine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/17/2024

Reported: 10/21/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 22 0-4' (H246397-05)

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	10/19/2024	ND	1.68	83.9	2.00	23.6	
Toluene*	<0.050	0.050	10/19/2024	ND	1.66	83.2	2.00	21.5	
Ethylbenzene*	< 0.050	0.050	10/19/2024	ND	1.74	87.0	2.00	18.8	
Total Xylenes*	<0.150	0.150	10/19/2024	ND	5.18	86.4	6.00	18.6	
Total BTEX	<0.300	0.300	10/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/21/2024	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	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(5	(5/5) 393-2326 FAA (5/5) 353-24/0	W (010) 000-54				ANALYSIS RECIEST	EST
Company Name: Ensolum, LLC	solum, LLC			BILL 10		AINT 1010 INTER	
Project Manager: Ben Belill	n Belill			P.O. #:			
Address: 3122 National Parks	ional Parks Hwy	y		Company: XTO Energy	ду		
city: Carlsbad		State:NM	zip:88220	Attn: Colton Brown			
Phone #: 9898540852	852	Fax #:		Address: 3104 E Green st	en st		
Project #: 03C1558279	8279	Project Owner:		city: Carlsbad			
Project Name: PLU Big Sinks 3-25-30	Big Sinks 3-25	-30		State: NM Zip: 88220	0		
Project Location: 32.15314, -103.86766	2.15314, -103.8	36766		Phone #:			
Sampler Name: Uriel Santillana	Santillana			1			
FOR LAB USE ONLY			MATRIX	X PRESERV. SAMPLING	e		
4	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER:	Chlorid OTEX TPH		
100mm	F549	5,	1 ×	×	TIN XXX		
N	SW12	0-4		10/17/24/1326	1326		
u r	SWILE	14-0		15/9/101	216		
2	31275	D-4,		12/9/101	27.6		
5	22mg	11-0	*	h2/±1/01 A	+ + +++		
							5
PLEASE NOTE: Liability and Da analyses, All claims including the service. In no event shall Cardina	mages. Cardinal's liability and ose for negligence and any oth al be liable for incidental or con	client's exclusive remedy for er cause whatsoever shall be sequental damages, includin	any claim arising whether based in or deemed waived unless made in war g wethout limitation, business interru	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arraing whether based in contract or tort, shall be limited to the amount paid by the client for the applicable arrainges. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal whitin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business therruptions, loss of use, or loss of profits incrured by client, its subsidiaries, service.	id by the client for the r completion of the applicable client, its subclidances, casons or otherwise.		
Relinquished By:	A of or regard to the periodinal	Date: 18-2	Received By:	Market of the same	Verbal Result:	o AddTPnone#: provide Email address; porrissey@ensolum.com	ntillana@ensolum.cor m
Relinquished By:	By:	Date:	Received By:	in warman of	REMARKS: Cost center: 1140131001	1140131001	
		Time:			Incident Nun	er: n/	751376 Sample Condition
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Corrected Temp. °C	Sample Cook	e Condition CHECKED BY: Intact (Initials) Is 3 Yes In No	Turnaround Time: Standard 24 hc Rush Thermometer ID 443 #140 Correction Factor 0.855 To 101	18 18	Bacteria (only) sample Continuous Cool Infact: Observed Temp. °C Yes: Yes No Corrected Temp. °C



October 22, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/18/24 16:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 72 4' (H246398-01)

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	10/21/2024	ND	2.04	102	2.00	7.60	
Toluene*	<0.050	0.050	10/21/2024	ND	2.27	114	2.00	0.103	
Ethylbenzene*	<0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
Total Xylenes*	<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
Total BTEX	<0.300	0.300	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/21/2024	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	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 73 4' (H246398-02)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2024	ND	2.04	102	2.00	7.60	
Toluene*	<0.050	0.050	10/21/2024	ND	2.27	114	2.00	0.103	
Ethylbenzene*	<0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
Total Xylenes*	<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
Total BTEX	<0.300	0.300	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/21/2024	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	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 74 4' (H246398-03)

RTFY 8021R

2.00 2.00 2.00 6.00	RPD Qualification 7.60 0.103 2.67 3.38
2.00 2.00 6.00	0.103 2.67
2.00	2.67
6.00	
	3.38
rue Value QC	RPD Qualific
400	3.64
ue Value QC	RPD Qualific
200	0.960
200	2.74
-	

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 75 4' (H246398-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2024	ND	2.04	102	2.00	7.60	
Toluene*	<0.050	0.050	10/21/2024	ND	2.27	114	2.00	0.103	
Ethylbenzene*	<0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
Total Xylenes*	<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
Total BTEX	<0.300	0.300	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	10/22/2024	ND	416	104	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	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg & Freene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 76 4' (H246398-05)

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050 0.050	Analyzed 10/21/2024	Method Blank	BS 2.04	% Recovery	True Value QC	RPD	Qualifier
<0.050			ND	2.04				
	0.050			2.04	102	2.00	7.60	
<0.050		10/21/2024	ND	2.27	114	2.00	0.103	
~0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
<0.300	0.300	10/21/2024	ND					
106	% 71.5-13	4						
mg,	'kg	Analyze	d By: KV					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
960	16.0	10/22/2024	ND	416	104	400	0.00	
mg,	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/21/2024	ND	193	96.5	200	0.960	
<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
<10.0	10.0	10/21/2024	ND					
121	% 48.2-13	4						
109	% 49.1-14	8						
	<0.300 106 9 mg/ Result 960 mg/ Result <10.0 <10.0 121 9	<0.050 0.050 <0.150 0.150 <0.300 0.300 106	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 21 5' (H246398-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2024	ND	2.04	102	2.00	7.60	
Toluene*	<0.050	0.050	10/21/2024	ND	2.27	114	2.00	0.103	
Ethylbenzene*	<0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
Total Xylenes*	<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
Total BTEX	<0.300	0.300	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	10/22/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2024	ND	193	96.5	200	0.960	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	189	94.6	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 23 0-4' (H246398-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2024	ND	2.04	102	2.00	7.60	
Toluene*	<0.050	0.050	10/21/2024	ND	2.27	114	2.00	0.103	
Ethylbenzene*	<0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
Total Xylenes*	<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
Total BTEX	<0.300	0.300	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/22/2024	ND	416	104	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	10/21/2024	ND	236	118	200	10.9	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	241	120	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: Sampling Type: Soil 10/22/2024

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 24 0-4' (H246398-08)

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	10/21/2024	ND	2.04	102	2.00	7.60	
Toluene*	<0.050	0.050	10/21/2024	ND	2.27	114	2.00	0.103	
Ethylbenzene*	<0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
Total Xylenes*	<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
Total BTEX	<0.300	0.300	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/22/2024	ND	416	104	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	10/21/2024	ND	236	118	200	10.9	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	241	120	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/18/2024 Sampling Date: 10/18/2024

Reported: 10/22/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 26 0-4' (H246398-09)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2024	ND	2.04	102	2.00	7.60	
Toluene*	<0.050	0.050	10/21/2024	ND	2.27	114	2.00	0.103	
Ethylbenzene*	<0.050	0.050	10/21/2024	ND	2.40	120	2.00	2.67	
Total Xylenes*	<0.150	0.150	10/21/2024	ND	7.15	119	6.00	3.38	
Total BTEX	<0.300	0.300	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/22/2024	ND	416	104	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	10/21/2024	ND	236	118	200	10.9	
DRO >C10-C28*	<10.0	10.0	10/21/2024	ND	241	120	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	10/21/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(0/0) 000-2020	- WY (010) 000-	110		TOTAL VOID DECLIECT
ompany Name	Company Name: Ensolum, LLC			BILL TO	ANALTOIS REGUES!
roject Manager: Ben Belill	r: Ben Belill			P.O. #:	
ddress: 3122	Address: 3122 National Parks Hwy	lwy		Company: XTO Energy	у
city: Carlsbad		State: NM	zip:88220	Attn: Colton Brown	
hone #: 9898540852	540852	Fax #:	2	Address: 3104 E Green st	en st
Project #: 03C1558279	1558279	Project Owner:	ň	city: Carlsbad	
roject Name: F	Project Name: PLU Big Sinks 3-25-30	25-30		State: NM Zip: 88220	
roject Location	Project Location: 32.15314, -103.86766	3.86766		Phone #:	
ampler Name:	Sampler Name: Uriel Santillana			Fax #:	
FOR LAB USE ONLY			AP. MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chlori BTEX TPH
1	F5 72	4,	-	12/8/61	1057
12-	£573		-		3501
W	F574				1950
4	5483	+			1400
7-	576	4,			\$1405
e	F521	5′			1324
7	5W23	0-4"			1430
0	5W24			4	1435
a	92mg	+	+	H2/8/101 A	1155 4 4 4
PLEASE NOTE: Liability a	and Damages, Cardinal's liability a	nd client's exclusive remedy for	r any claim arising whether based in com	PLEASE NOTE: Lability and Damages, Cardinal's liability and client's exclusive remady for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable.	by the clerat for the competion of the applicable
Relinquished By:	sung out of or related to the perform	nance of services hereunder by	Received By:	Relinquished By: Date: Results of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Nerbal Results :	All Results are emailed. Please provide Email address; All Results are emailed. Please provide Email address;
-X	Come	Time: 44	Jann.	Ohn Whales	Bbelill@ensolum.com tmorrissey@ensolum.com
Relinquished By:	ŝy:	Date:	Received By:	Commence of	REMARKS: Cost center: 1140131001
		Time:			7
Delivered By: (Circle One)	Circle One)	Observed Temp. °C	Sample Condition	n CHECKED BY: (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Type Type Typ
Sampler - UPS - Bus - Other:	Bus - Other:	Corrected Tamp. °C46	_	10	Corrected Temp. °C



October 24, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/22/24 13:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Sampling Date: 10/21/2024

Reported: 10/24/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

A ... - b ... - d D. .. 711

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 21 0.4' (H246435-01)

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	10/22/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/23/2024	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*	<20.0	20.0	10/22/2024	ND	203	102	200	3.86	R-07
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	201	101	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Sampling Date: 10/22/2024

Reported: 10/24/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SW 25 0.4' (H246435-02)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/23/2024	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*	<20.0	20.0	10/22/2024	ND	203	102	200	3.86	R-07
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	201	101	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					
Surrogate: 1-Chlorooctane	112 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
R-07	The Reporting Limit for this analyte has been raised to account for target analyte concentration in the solvent.
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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC		BILL TO		
Project Manager: Ben Belill		P.O. #:	ANALTSIS REQUEST	
Address: 3122 National Parks Hwy	lwy	Company: XTO Energy		
city: Carlsbad	State:NM Zip:88220	Attn: Colton Brown		
Phone #: 9898540852		Address: 3104 E Green st	St	
Project #: 03C1558279	Project Owner:	City: Carlsbad		
Project Name: PLU Big Sinks 3-25-30	5-30	State: NM Zin: 88220		
Project Location: 32.15314, -103.86766	.86766			
Sampler Name: Uriel Santillana		Tau A.		
FOR LAB USE ONLY	MATRIX	1	L	
	S ER	PRESERV. SAMPLING	ide	
Lab I.D. Sample I.D.	(feet) G)RAB OR (C)C CONTAINERS GROUNDWATER VASTEWATER OIL LUDGE	THER: CID/BASE: EE/COOL THER:	CAlori BTE) TPH	
1 SW21	1 X	11 h2/12/01 X	121 × × × +21	
(300)	X 7.0	X 10/24/24 11.2.1	X X X	
TEACH NOTE: 1578-1578				S
analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or cons	analyses. All claims including those for negligence and any other cause whatsower shall be deemed whater based in contract or lort, shall be limited to the amount paid by the client for the service. In no event shall be carried be labele for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by Capital and incurred by Capital and incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by Capital and incident as uncertainty.	r fort, shall be limited to the amount paid by the c received by Cardinal within 30 days after complet ss of use, or loss of profits incurred by client its s	Sent for the denotation applicable	
Relinquished By:	Date: Date: Received By:	Dased upon any of the above stated reasons or or Verb. All Re	ons or otherwise. Verbal Result: □ Yes □ No Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:	Date: Received By:	Bbe	Bbelill@ensolum.com tmorrissey@ensolum.com REMARKS:	@ensolum.com
	Time:		Incident Number: nABB2227754276	,
Sampler - UPS - Bus - Other:	Corrected Temp. C Sample Condition Corrected Temp. C Cool Intact Corrected Temp. C Dyes Dyes	CHECKED BY:	itandard Bacteria (only) S	ample Condition Observed Temp. °C
FURM-006 K 3.2 10/01/21	+ Cardinal cannot account worked the	7.7	No No No	Corrected Temp. °C



October 28, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/24/24 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 10/24/2024
 Sampling Date:
 10/23/2024

 Reported:
 10/28/2024
 Sampling Type:
 Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 19 0-4' (H246487-01)

DTEV 0021D

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	10/25/2024	ND	2.17	109	2.00	8.20	
Toluene*	<0.050	0.050	10/25/2024	ND	2.14	107	2.00	8.84	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.19	110	2.00	9.04	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.53	109	6.00	9.31	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/25/2024	ND	416	104	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	10/25/2024	ND	204	102	200	7.01	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	195	97.5	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/24/2024 Sampling Date: 10/23/2024

Reported: 10/28/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558279 Sample Received By:

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 20 0-4' (H246487-02)

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	10/25/2024	ND	2.17	109	2.00	8.20	
Toluene*	<0.050	0.050	10/25/2024	ND	2.14	107	2.00	8.84	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.19	110	2.00	9.04	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.53	109	6.00	9.31	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/25/2024	ND	416	104	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	10/25/2024	ND	204	102	200	7.01	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	195	97.5	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

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Celey D. Keene

Relinquished By:

Date: Time:

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed lemp.

Cool Intact
Tyes Tyes
No No Sample Condition

> CHECKED BY: (Initials)

> > Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Observed Temp. °C Corrected Temp. °C

☐ Yes ☐ Yes ☐ No ☐ No

† Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallapsnm.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393	0-1010				
ompany Name: Ensolum, LLC	nsolum, LLC		BILL TO	The state of the s	
roject Manager: Ben Belill			P.O. #:		
ddress: 3122 National Parks Hwy	Parks Hwy		Company: XTO Energy		
Sity: Carlsbad	State: NM	zip:88220	Attn: Colton Brown		
hone #- 9898540852	Fax #:		Address: 3104 E Green St		
03C1558279	Project Owner:	77	city: Carlsbad		
roject #. PI II Big Sinks 3-25-30	inks 3-25-30		State: NM Zip: 88220		
oject Name:			Phone #:		
Project Location: 32.15314, -103.86766	14, -103.86766		Fnoile #.		
Sampler Name: Uriel Santillana	illana		Fax #: SAMPLING	le	
FOR LAB USE ONLY		MATRIX	PKESEKY.	X X	
	Sample I.D. Depth (feet))RAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL IL LUDGE	THER: CID/BASE: DE/COOL OTHER:	Chlor BTE TPH	
H246487		G W S	X 10/23/24	S XXX S	
ms 2	W20 0-4	C 4 X	X + 1330	×××°	
1					

All Results are emailed. Please provide Email address:
usantillana@ensolum.com kthomason@ensolum.com
Bbelill@ensolum.com tmorrissey@ensolum.com
REMARKS: Cost center: 1140131001

□ No Add'I Phone #:

Incident Number: nAPP2327751376



October 29, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/25/24 12:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 10/25/2024
 Sampling Date:
 10/24/2024

 Reported:
 10/29/2024
 Sampling Type:
 Soil

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 04 0-4' (H246513-01)

DTEV 0021D

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	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	176	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 06 0-4' (H246513-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	192	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 15 0-4' (H246513-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	224	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	98.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SW 17 0-4' (H246513-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	368	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



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

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Celeg D. Freene

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(E7E) 202-2226 FAX (575) 393-2476	X (575) 393-2476					
Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO		ANALYSIS REQUEST	1
roject Manager: Ben Belill	Ben Belill		P.O. #:	7.			
ddress: 3122 l	Address: 3122 National Parks Hwy	y	Com	Company: XTO Energy			
city: Carlsbad		State:NM Zip:88220		Attn: Colton Brown			
Phone #: 9898540852	40852	Fax #:	Addr	Address: 3104 E Green St	St		
Project #: 03C1558279	558279	Project Owner:	City:	O			
Project Name: P	Project Name: PLU Big Sinks 3-25-30	-30	State	State: NM Zip: 88220			
Project Location	Project Location: 32.15314, -103.86766	36766	Phone #:	10 #:	e		_
Sampler Name:	Sampler Name: Uriel Santillana		Fax#		L		
FOR LAB USE DNLY		P,	MATRIX	PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER :	Chlo		
0-10	Swod		- ×	X 10/24/24 11	1257 1 1		
W	Swis						
4	+1ms	+	۴	+	1020		
							V
PLEASE NOTE: Liability analyses, All claims included analyses.	and Damages. Cardinal's liability and ling those for negligence and any other cardinal be liable for neglectal or co	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other counse whatsoever shall be deemed waiwed unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other counse whatsoever shall be deemed waiwed unless made in writing and received by Cardinal within 30 days after completion of the applicable.	ing whether based in contract or fort, wed unless made in writing and receive tation, business interruptions, loss of t	shall be limited to the amount paid by ed by Cardinal within 30 days after co see, or loss of profits incurred by clien	rthe client for the impletion of the applicable it, its subsidiaries,		
Relinquished By:	on arising out of or related to the performa Bd By:	Time:	Received By:	aupon any or the above same reason	Verbal Result:	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: usantillana@ensolum.com kthomason@ensolum.com Bbelill@ensolum.com tmorrissey@ensolum.com	
Relinquished By:	N.	2	Received By:	inal	ncident Number: nAPP23	nter: 1140131001 Number: nAPP2327751376	
Delivered By: (Circle One)	1	800	Sample Condition Cool Intact Xes Xes	CHECKED BY:	141	Bacteria (only) S Cool Intact See Yes	
Sampler - UPS - Bus - Other:		Corrected lemp. &.UL		X	1.7		



November 01, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/30/24 10:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 10/30/2024
 Sampling Date:
 10/29/2024

 Reported:
 11/01/2024
 Sampling Type:
 Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SW 09 (H246604-01)

DTEV 0021D

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	11/01/2024	ND	2.11	105	2.00	9.14	
Toluene*	<0.050	0.050	11/01/2024	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.04	102	2.00	7.23	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	6.06	101	6.00	7.61	
Total BTEX	<0.300	0.300	11/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	336	16.0	11/01/2024	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	10/31/2024	ND	209	104	200	1.77	
DRO >C10-C28*	<10.0	10.0	10/31/2024	ND	192	96.2	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	10/31/2024	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/30/2024 Sampling Date: 10/29/2024

Reported: 11/01/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SW 10 (H246604-02)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2024	ND	2.11	105	2.00	9.14	
Toluene*	<0.050	0.050	11/01/2024	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.04	102	2.00	7.23	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	6.06	101	6.00	7.61	
Total BTEX	<0.300	0.300	11/01/2024	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	48.0	16.0	11/01/2024	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	10/31/2024	ND	209	104	200	1.77	
DRO >C10-C28*	<10.0	10.0	10/31/2024	ND	192	96.2	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	10/31/2024	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/30/2024 Sampling Date: 10/29/2024

Reported: 11/01/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SW 11 (H246604-03)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2024	ND	2.11	105	2.00	9.14	
Toluene*	<0.050	0.050	11/01/2024	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.04	102	2.00	7.23	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	6.06	101	6.00	7.61	
Total BTEX	<0.300	0.300	11/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2024	ND	209	104	200	1.77	
DRO >C10-C28*	<10.0	10.0	10/31/2024	ND	192	96.2	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	10/31/2024	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.1	% 49.1-14	8						

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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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

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

Company Name: Ensolum	olum		BILLTO			AMAIN	יסוס סדיסוודסד		
Project manager: Ben Belill	Belill		P.O. #:		1	ANALTOIO	SIS REQUEST		-
Address: 3122 National Parks Hwy	al Parks Hwy		Company: XTO Energy						
City: Carlsbad	State: NM ZIP: 88220	220	Attn: Colton Brown		_				
Phone #: 9898540852			Address: 3104 E Greene st.	7	_				_
Project #:	03C1558279		City: Carlsbad		_		_		
Project Name:	PLU Big Sinks 3-25-30		State: N Zip: 88220		_				
Project Location:	32.15314,-103.86766		#	0					
Sampler Name:	Uriel Santillana		Fax #:	<u> </u>					
FOR LAB USE ONLY		MATRIX	SEBV				_		_
Lab I.D.			PRESERV. SAMPLING						
H246604	Sample I.D.	G)RAB OR (C)O CONTAINERS GROUNDWATER VASTEWATER SOIL DIL ELUDGE	OTHER: CID/BASE: DE/GOOL OTHER:	л m D — х	ר ס ד	× m ⊣ æ			
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ilicable service. In no event shall Co	Clable service. In no event shall Cardinal be liable for incidental or consequents damage, including without limitation, business interruption, less of use, or jost of prints including those expenses and the prints of the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	without limitation, business interruptions, loss of use, or parties of whether such claim is based upon any of the	cleriform analyses, All claims including those for negligence r loss of profits incurred by client, its subsidiaries, above stated reasons or otherwise.	for negligence	se whatsoever s	hall be deemed w	aived unless made in writing an	and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the	completion of the
elinquished By:	Date: 10/30/24	Received By:		Verbal Result: □	Yes 🗆 N	do	Add'l Phone	序	
Uda	Time: 0730	0 1/12	1	ppellil@ensolum.con	n unornss	ey@ensolur	n.com kthomason@e	premil@ensolum.com tmorrissey@ensolum.com kthomason@ensolum.com usantillana@ensolum.com	solum.com
Filinquished By:	Time; 10/30/34	Received By:	much	REMARKS: Cost center: 1140131001	iter: 114013		Incident ID: nAPP2327751376	7751376	
Impler - UPS - Bus - Other	Corrected Temp. °C	S S S S S S S S S S S S S S S S S S S	CHECKED BY:	Turnaround Time: Standard	Observ	Bacteria (only) Sample Condition Cliserved Temp. "C			
	0/07/24	No	Ť	Correction Factor	300.		□ No □ No	Yes No Corrected Temp. *C	
FORM-006 R 3.2 10/07/21	0/07/21								



November 18, 2024

BEN BELILL ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 11/15/24 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 77 (H246995-01)

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	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	4960	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	75.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

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Mile Sough



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 78 (H246995-02)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	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	3680	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	81.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 79 (H246995-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	11/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Me Sough



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 80 (H246995-04)

BTEX 8021B

DIEX GOZID	1119/	- Kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	11/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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Mile Sough



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 81 (H246995-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	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	2960	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.6	% 49.1-14	8						

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Mile Sough



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 82 (H246995-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	11/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: FS 83 (H246995-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	11/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 84 (H246995-08)

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	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	880	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: FS 85 (H246995-09)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	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	3280	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 86 (H246995-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	11/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	76.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: Alyssa Parras 03C1558279 Sample Received By:

Project Location: XTO 32.15314,-103.86766

Sample ID: FS 87 (H246995-11)

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	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	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	96.0	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/15/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: SW07 (H246995-12)

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	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	80.0	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.11	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	196	97.8	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/15/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SW08 (H246995-13)

BTEX 8021B

DILX OUZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	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	80.0	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/15/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: SW27 (H246995-14)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/15/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: SW28 (H246995-15)

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	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	80.0	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/15/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Project Location: XTO 32.15314,-103.86766

Sample ID: SW29 (H246995-16)

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	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/15/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SW30 (H246995-17)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/18/2024	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/15/2024 Sampling Date: 11/15/2024

Reported: 11/18/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SW31 (H246995-18)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.22	111	2.00	2.34	
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	3.32	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.24	112	2.00	3.61	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.13	119	6.00	3.11	
Total BTEX	<0.300	0.300	11/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/18/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

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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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project manager: Ben Belill Address: 3122 National Parks Hwy City: Carlsbad	n Belill nal Parks Hwy State: NM ZIP: 88220	8220	P.O. #: Company: XTO Energy Attn: Colton Brown		
Project #: Project Name:	03C1558279 PLU Big Sinks 3-25-30		City: Carlsbad State: IN Zip: 88220		
Project Name: Project Location:	32.15314,-103.86766		#		
Sampler Name:	Uriel Santillana		Fax #:	1	
FOR LAB USE ONLY		MATRIX	PRESERV. SAM	SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIN	ϫϴϥϴ
, –	82553	- X	- ×	1305 X	-X
νo	44			1255	
Y	3			1307	
7	FS 81			1301	
عاد	500			1259	
poa	5853 h253			1120	
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pplicable service. In no event sha infliates or successors arising out		0 = 5	tead or lant, ahali be limited to the amount ped by the client for the analyses. All clothns, including those for negligeno mitaplaton, business interruptions, loss of lase, or loss of profits incurred by client. Its subsidiatives, if whether such claims is besed upon any of the above stated reasons or of thewever.	for negligence	and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the
Relinquished By:	Date:	Received By:		Verbal Result: ☐ Yes ☐ No Add'I Phone #: bbelill@ensolum.com thomason@ensolum.com usantillana@ensolum.com	Yes □ No n tmorrissey@ensol
Relinquished By:	Time:	Received By:		REMARKS: Cost center: 1140131001	nter: 1140131001 Incident ID: nAPP2327751376
Salivered By: (Circle One)	Obse Corre	Sample Condition Social Cool Intact The Dres Dres The Dres Dres The Dres	ON CHECKED BY: (Initials)	Turnaround Time: Standard Rush Cool Infact Obs. 24 hr 1140	ard Bacteria (cnly) Sample Condition fact Observed Temp. 'C
		1	F	ALCOHOLD BY DATE OF THE PARTY O	
			774	Collection Pactor	(,

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 201 of 321

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum	olum			BIII	75			ANIAI VO			
Project manager: Ben Belill	1 Belill			P.O. #:			-	7	אר אנייניייייייייייייייייייייייייייייייי		
Address: 3122 National Parks Hwy	al Parks Hwy			Company: XTO Energy	Energy						
City: Carlsbad	State: NM ZIP: 88220	0		Attn: Colton Brown	wn						
Phone #: 989-854-0852	2			Address: 3104 E Greene st.	Greene st.						
Project #:	03C1558279			City: Carlsbad							
Project Name:	PLU Big Sinks 3-25-30				Zip: 88220						
Project Location:	32.15314,-103.86766			Phone #:			C				
Sampler Name:	Uriel Santillana			Fax #:			- I				
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING) r				
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS ROUNDWATER	ASTEWATER OIL IL LUDGE	THER: CID/BASE: EE/COOL THER:	2		л п D — д С	× m → œ			
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PLEASE NOTE: Liability and Damages. Complicable service. In no event shall Committees or successors arising out of committees or successors arising out of committees.	PLBSE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or for, shall be limited to the amount paid by the client for the analyses. All claims including those 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 of 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.	ed in contract or tort, shall be lim without limitation, business in ordess of whether such claim	nited to the amount paid by the clier interruptions, loss of use, or lose in is based upon any of the ab-	client for the analyses. All claims loss of profits incurred by client above stated reasons or otherwise.	ns including those for negligent, its subsidiaries, wise.		er cause whatsoev	ence and any other cause whatsoever shall be deemed wai	waived unless made in writing and received by Cardinal within 30 days after completion of the	nd received by Cardinal with	hin 30 days after completio
Relinquished By:	Time:	Received By:	D A RO		σle	erbal Result: belill@ensolum	☐ Yes [□ No issey@ensolum	Verbal Result: ☐ Yes ☐ No	#: ensolum.com usar	ntillana@ensolum
2021 elinquished By:	Date: Time:	Received By:	y:		71	REMARKS: Cos	it center: 114	10131001 Incid	ARKS: Cost center: 1140131001 Incident ID: nAPP2327751376	1376	
bilivered By: (Circle One) ampler - UPS - Bus - Other:	other: Observed Temp. °C 0 Corrected Temp. °C 0 Corrected Temp. °C 8 Corrected Temp. °C 8 Corrected Temp. °C 8 Corrected Temp. °C 8 Corrected Temp. °C 9 Corrected Temp.	,	Sample Condition Cool Intact The Pres No No	CHECKED BY: (Initials)		Turnaround Time: Standa Rush Cool Inta 7 4 h C Thermometer ID #140 Correction Factor C-O	6 ª ā	Bacteria (only) Sample Condition Observed Temp. *C		□ Yes □ Yes □ NO □ NO □ Corrected Temp. 'C'	ď

Released to Imaging: 12/27/2024 9:00:31 AM



APPENDIX C

March 18, 2024 Remediation Work Plan



March 18, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Work Plan and Variance Request

PLU Big Sinks 3-25-30

Incident Number NAPP2327751376

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document assessment and delineation activities completed to date and propose remedial actions to address impacted soil identified at the PLU Big Sinks 3-25-30 (Site). The purpose of the Site assessment and delineation activities was to determine the presence or absence of impacted soil resulting from a release of produced water at the Site. The following *Work Plan* proposes to excavate impacted soil and requests a variance for confirmation soil sampling frequency.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 3, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.15314°, -103.86766°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On September 20, 2023, internal corrosion on a main produced water pipeline caused the release of approximately 182.86 barrels (bbls) of produced water onto the surface of the well pad and into the adjacent pasture area. A vacuum truck was dispatched and recovered 45 bbls of released fluids. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Notification of Release (NOR) on an Initial C-141 Application (C-141) on October 4, 2023. The release was assigned Incident Number NAPP2327751376.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In August 2023, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE file number C-04757) was completed approximately 255 feet east of the release utilizing air rotary drilling methods. Soil boring C-04757 was drilled to a depth of 119 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The soil boring was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 119 feet bgs. The

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com

XTO Energy, Inc. Remediation Work Plan and Variance Request PLU Big Sinks 3-25-30

borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 1,763 feet southwest of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applied to the top 4 feet of pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES

On October 13, 2023, Ensolum personnel conducted Site assessment activities to evaluate the release extent based on information provided in the C-141 and visual observations. Twelve delineation soil samples (SS01 through SS12) were collected within the release at a depth of 0.5 feet bgs. All delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photographic log of the Site assessment is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico and Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered by the laboratory to have been received in acceptable condition.



XTO Energy, Inc. Remediation Work Plan and Variance Request PLU Big Sinks 3-25-30

DELINEATION SOIL SAMPLING ACTIVITIES

On November 15 and December 11, 2023, Ensolum returned to the Site to conduct delineation and activities. Twelve boreholes (BH01 through BH12) were advanced utilizing a hand auger to investigate the extent of the release. The boreholes were advanced to depths ranging from 1-foot to 3 feet bgs. Discrete delineation soil samples (BH01 through BH12) were collected within each borehole at the terminal depths ranging from 1-foot to 3 feet bgs. Delineation soil samples BH01 through BH12 and were advanced in the vicinity of delineation soil samples SS01 through SS12, respectively. In addition, delineation soil samples SS13 through SS32 were collected 1 to 2 feet from the edge of the release along the edge of the release extent. The delineation soil samples were handled and analyzed following the same procedures as described above. The borehole soil sample locations are depicted on figure 2. Field screening results and observations for all boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated concentrations of benzene, BTEX, TPH-GRO/TPH-DRO, and TPH were all compliant with the Closure Criteria. Delineation soil samples SS01/BH01 through SS12/BH12 collected within the release extent contained soil with chloride concentrations exceeding the Closure Criteria and/or reclamation requirement applied in the top 4 feet. The elevated chloride concentrations at the surface ranged from 1,430 mg/kg in SS11 to 29,600 mg/kg in SS02. The elevated chloride concentrations at the terminal depth of the boreholes, ranging from 1-foot to 3 feet bgs ranged from 272 mg/kg in BH11 to 5,360 mg/kg in BH09. Lateral delineation soil samples SS13 through SS32, collected 1 to 2 feet from the edge of the release extent, indicated all COCs were compliant with the Closure Criteria and reclamation requirement and successfully define the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

XTO proposes to remove chloride-impacted and waste containing soil identified at the Site. An estimated 3,800 cubic yards of soil will be removed, and the proposed excavation extent is depicted on Figure 3. Although the release has not been fully vertically delineated to the strictest Closure Criteria due to auger refusal, COC concentrations were decreasing with depth. XTO anticipates a maximum depth of excavation of 4 feet bgs. In addition, the lateral extent of the release has been fully defined by delineation soil samples SS13 through SS32. Following the removal of impacted and waste-containing soil, confirmation soil samples will be collected along the floors and sidewalls of the final excavation extent.

Due to the estimated size of the excavation, XTO requests a variance for sampling frequency of all confirmation samples. XTO proposes five-point composite samples be collected at a sampling frequency of 500 square feet. The proposed sampling frequency would reduce the total amount of samples from approximately 194 samples (200 square-foot frequency) to approximately 52 samples. The quantity of samples is unlikely to reduce the ability to identify residual contaminants, especially since the reclamation requirement is being applied in the top 4 feet. No sensitive receptors will be impacted. Most of the soil in the root zone (top 4 feet) will be removed, eliminating potential impairment to vegetation. Wildlife and humans are not generally affected by chloride concentrations in soil through touch or ingestion, especially at near 600 mg/kg levels and at depths that will be overlain by clean imported fill material. As such, this variance request appears to be equally protective of human health, the environment, and groundwater.



XTO Energy, Inc. Remediation Work Plan and Variance Request PLU Big Sinks 3-25-30

The proposed collection of sidewall confirmation soil samples will serve as horizontal definition of the release. The proposed collection of floor confirmation soil samples will serve as vertical definition of the release. The soil samples will be handled and analyzed for COCs as described above and submitted to Cardinal for laboratory analysis. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal. The excavation will be backfilled and recontoured to match pre-existing Site conditions and the pasture area will be reseeded with a BLM-approved seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* with variances by NMOCD. XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Daniel R. Moir, PG

Senior Managing Geologist

Sincerely, **Ensolum, LLC**

Tracy Hillard Staff Engineer

Tought Hard

cc: Amy Ruth, XTO

Amanda Garcia, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Proposed Excavation Extent
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

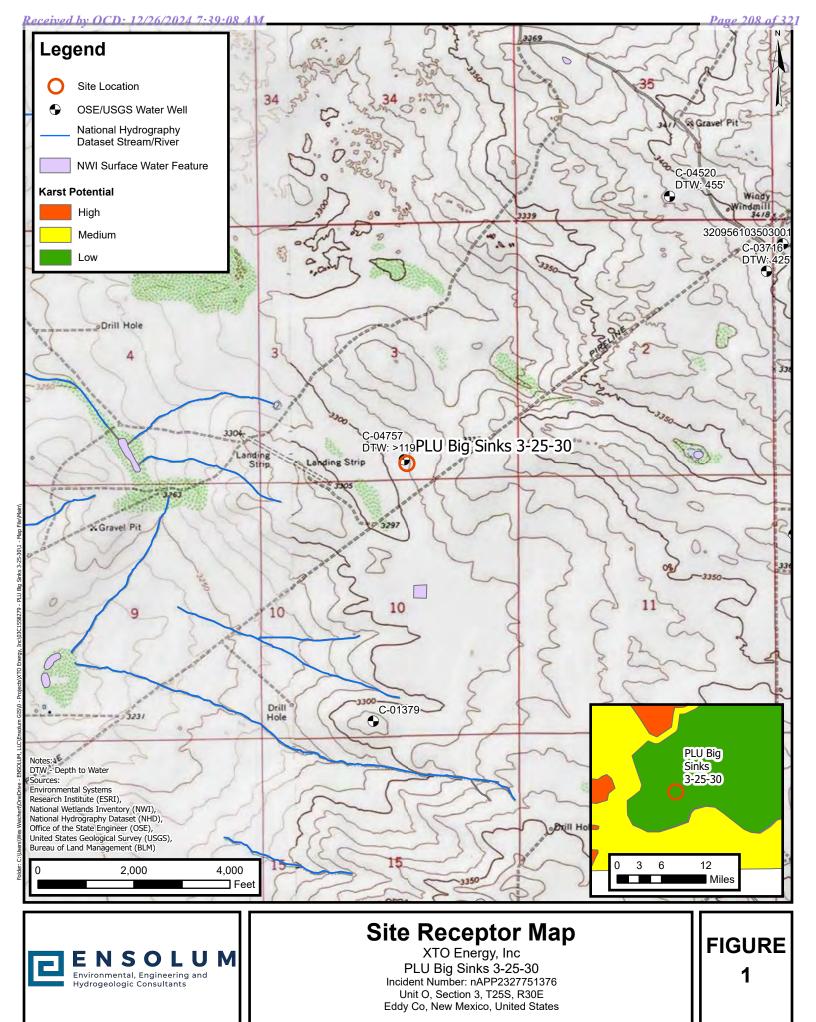
Appendix C Lithologic / Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

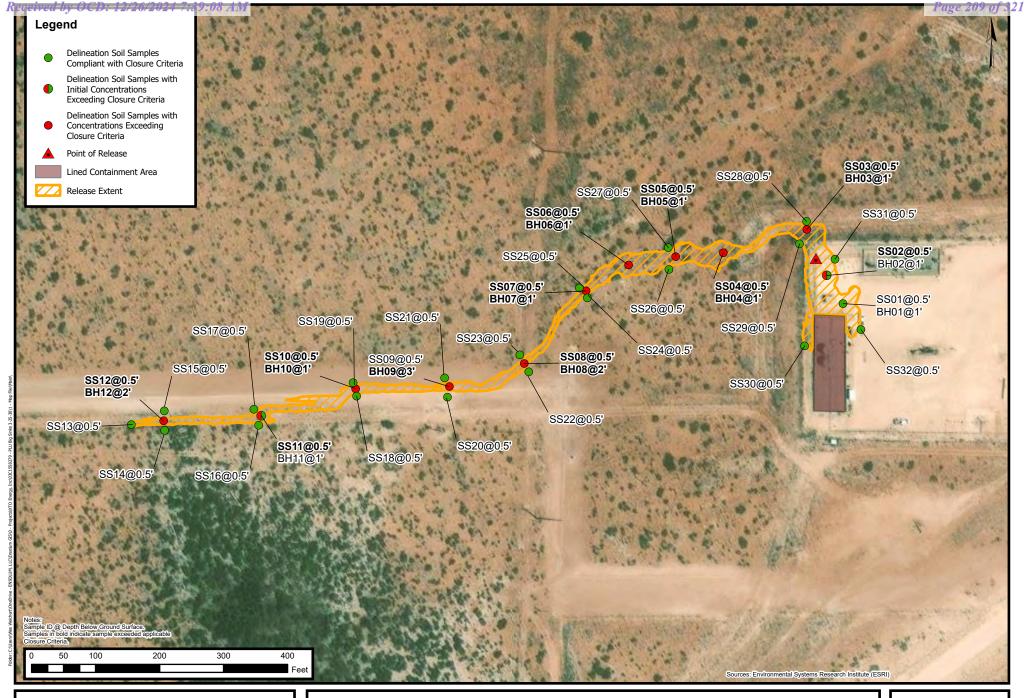




FIGURES



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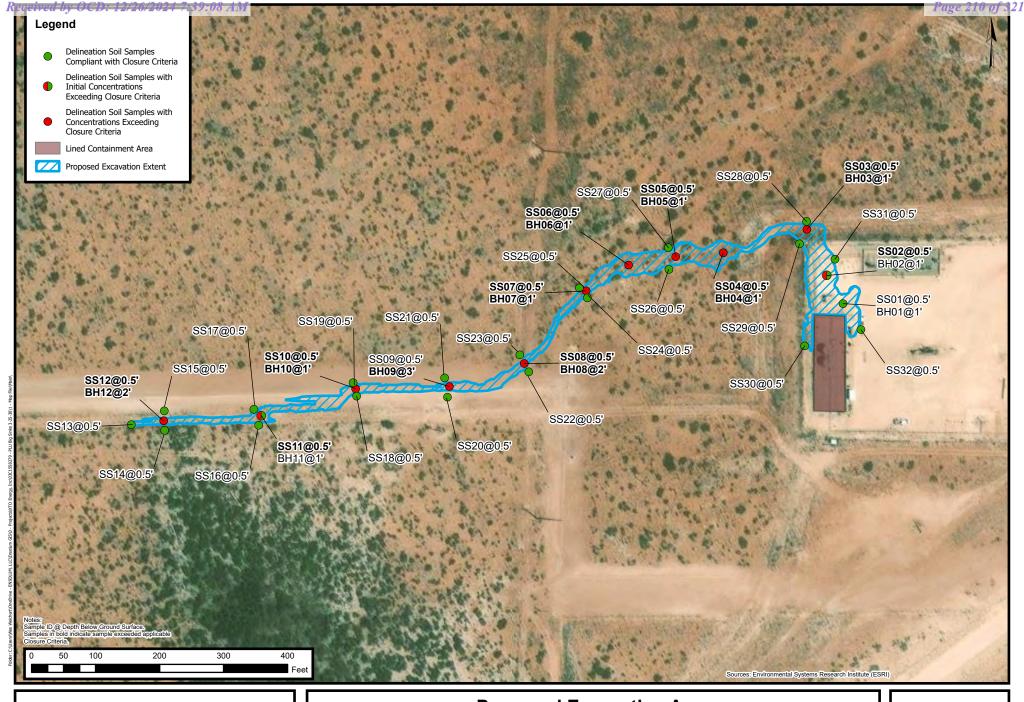




Released to Imaging: 12/27/2024 9:00:31 AM

Delineation Soil Sample Locations

XTO Energy, Inc PLU Big Sinks 3-25-30 Incident Number: nAPP2327751376 Unit O, Section 3, T25S, R30E Eddy Co, New Mexico, United States FIGURE 2





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Proposed Excavation Area

XTO Energy, Inc
PLU Big Sinks 3-25-30
Incident Number: nAPP2327751376
Unit O, Section 3, T25S, R30E
Eddy Co, New Mexico, United States

FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Big Sinks 3-25-30 XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
SS01	10/13/2023	0.5	<0.00199	<0.00398	<49.6	81.6	<49.6	81.6	81.6	18,400
BH01	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,600
SS02	10/13/2023	0.5	<0.00200	<0.00399	98.7	271	<50.5	370	370	29,600
BH02	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,480
SS03	10/13/2023	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	16,100
BH03	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
SS04	10/13/2023	0.5	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	7,430
BH04	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
SS05	10/13/2023	0.5	<0.00201	<0.00402	<49.5	<49.5	<49.5	<49.5	<49.5	11,800
BH05	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,720
SS06	10/13/2023	0.5	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	8,440
BH06	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,680
SS07	10/13/2023	0.5	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	19,600
BH07	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
SS08	10/13/2023	0.5	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	26,800
BH08	03/11/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,880
SS09	10/13/2023	0.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	380
BH09	03/11/2024	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,360
SS10	10/13/2023	0.5	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	5,250
BH10	03/11/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,720
SS11	10/13/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
BH11	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS12	10/13/2023	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	5,260
BH12	03/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,200
SS13	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SS15	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS17	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SS18	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS19	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Big Sinks 3-25-30 XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SS20	03/11/2024	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS21	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS22	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS23	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS24	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS25	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS26	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS27	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS28	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS29	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS30	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS31	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS32	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 2 of 2



APPENDIX A

Referenced Well Records

Sample Name: C-04757 (BH01) Date: 8/2/2023 Site Name: PLU CVX JV BS #016H Incident Number: NAB1519556419 Job Number: 03C1558238 LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.152842, -103.866772 Comments: No field screenings. Part of the point of	
LITHOLOGIC / SOIL SAMPLING LOG Logged By: MR Method: Air Rota Coordinates: 32.152842, -103.866772 Hole Diameter: 5" Total Depth: 119 Comments: No field screenings. Depth (ft bgs) O CCHE O'-20' CALICHE GRAVEL, light brown/white, grained, poorly sorted with sub-angular rounded grains, dry.	
Job Number: 03C1558238 LITHOLOGIC / SOIL SAMPLING LOG Logged By: MR Method: Air Rota Coordinates: 32.152842, -103.866772 Hole Diameter: 5" Total Depth: 119 Comments: No field screenings. Sample Depth (ft bgs) Solution	
LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.152842, -103.866772 Comments: No field screenings. Sample Depth (ft bgs) O CCHE O'-20' CALICHE GRAVEL, light brown/white, grained, poorly sorted with sub-angular rounded grains, dry.	
Coordinates: 32.152842, -103.866772 Comments: No field screenings. Sample Depth (ft bgs) OCCHE O'-20' CALICHE GRAVEL, light brown/white, grained, poorly sorted with sub-angular rounded grains, dry.	iry
Comments: No field screenings. Output Comments: No field screenings. Comments: No field scre	-
0 CCHE 0'-20' CALICHE GRAVEL, light brown/white, grained, poorly sorted with sub-angular rounded grains, dry.	
grained, poorly sorted with sub-angular rounded grains, dry.	
n , , , , , , , , , , , , , , , , , , ,	to sub-
20 SP 20'-70' SAND with trace caliche, medium b medium grained with small grained calic poorly sorted, sub-rounded. 30 Injected water and foaming agent @ 25'.	
50	
70 GM 70'-90' GRAVEL conglomerate with sand, so gravel w medium grained sand, grains in quartzite and chert, poorly sorted, sub-a grains, ~30% sand.	clude
T 80 20% sand.	ali
T 90 SP 90'-115' SAND, medium brown/orange, me grained, poorly sorted.	eaium
SP-SM 115' SAND with silt, red, medium to fine gr poorly sorted. 120 TD Total Depth @ 119' bgs.	ained,



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc. PLU Big Sinks 3-25-30 Incident Number nAPP2327751376





Date: 10/13/2024 Photograph: 1

Description: Site assessment actvities, release area.

View: Southwest

Photograph: 2 Date: 10/13/2024 Description: Site assessment actvities, release area.

View: South





Photograph: 3 Date: 10/13/2024

Description: Site assessment actvities, release area.

View: West

Photograph: 4 Date: 10/13/2024

Description: Site assessment actvities, release area.

View: Southwest



Photographic Log

XTO Energy, Inc.
PLU Big Sinks 3-25-30
Incident Number nAPP2327751376





Photograph: 5 Date: 3/11/2024

Description: BH05 Delineation by Hand Auger

View: Northeast

Photograph: 6 Date: 3/11/2024

Description: BH09 Delineation by Hand Auger

View: Northeast





Photograph: 7 Date: 3/11/2024

Description: BH11 Delineation by Hand Auger

View: Northeast

Photograph: 8 Date: 3/11/2024

Description: BH12 Delineation by Hand Auger

View: Southeast



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 3/11/2024
							B. A	Site Name: PLU Big Sinks 3-25	
			N	3	U	LU	IVI	Incident Number: NAPP2327	
								Job Number: 03C1558279	
		LITHOL	.OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord	inates: 3	2.153193	, -103	3.867498				Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, re easurements made with a +40	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions
					1	0	CCHE (fill)	0-1', CALICHE, moist, of fill material.	f white, compacted
М	24,018	15.7	Υ	SS01	0.5	-	()	······································	
М	6,300	0.0	Υ	BH01	1	_ 1			
1					٦	-	TD	Auger Refusal @ 1' bgs.	
					_	-			
					_	_ 2			
					_	-			
					_	3			
					<u>-</u>	Γ			
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					_	_			
					-	12			

								Sample Name: BH02	Date: 3/11/2024
							B. A	Site Name: PLU Big Sinks 3-25	
			N	3	U	LU	IVI	Incident Number: NAPP2327	
								Job Number: 03C1558279	
		LITHOL	.OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord	inates: 3	2.153315	, -103	3.867579				Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, re easurements made with a +40	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		: Descriptions
					1	0	CCHE (fill)	0-1', CALICHE, moist, of fill material.	f white, compacted
М	30,122	1.2	Υ	SS02	0.5	-	(1111)	mi material.	
М	4,945	0	Υ	BH02	1 _	_ 1			
	.,5 .5		·	2.702			TD	Auger Refusal @ 1' bgs.	
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						12			

								Carrala Nama - BUO2	Data: 2/44/2024
7	7	_						Sample Name: BH03	Date: 3/11/2024
		E	N	S	OI	_ U	M	Site Name: PLU Big Sinks 3-25-30	16
								Incident Number: NAPP232775137	/b
		=	-					Job Number: 03C1558279	
					SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
		2.153513						Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, respect easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
					1	0	SP	0-1', SAND, reddish brown, v	very fine to fine
D	18,026	2.8	N	SS03	0.5			grained, poorly graded, dry	, no odor.
						-			
D	4,189	0	N	BH03	1 _	_ 1	TD	Auger Refusal @ 1' bgs.	
					_	_	וט	Auger Nerusar @ 1 bgs.	
					-	2			
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					-	12			

								Sample Name: BH04	Date: 3/11/2024
1	7							Site Name: PLU Big Sinks 3-25-30	Dutc. 3/11/2024
			N	5	O I	U	V	Incident Number: NAPP23277513	76
								Job Number: 03C1558279	. 0
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord		2.153513						Hole Diameter: 4"	Total Depth: 1'
					ith HACH Ch	nloride Test S	Strips and	PID for chloride and vapor, respec	· ·
								easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
					1	0	SP	0-1', SAND, reddish brown, grained, poorly graded, dry	very fine to fine
D	24,018	251	N	SS04	0.5	<u>-</u>		Aramea, poorly graded, dry	, 110 0001.
D	3,114	0	N	BH04	1	_ 1			
	3,114		ı N	DI 104		- ⁺	TD	Auger Refusal @ 1' bgs.	
					_	_			
						_ 2			
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					-	4			
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					-	10			
					_	<u> </u>			
					7	11			
						11			
						-			
						12			

								Canada Nama BUOF	Data: 2/44/2024
4								Sample Name: BH05	Date: 3/11/2024
		E	N	S	OI	_ U	M	Site Name: PLU Big Sinks 3-25-30	7.6
								Incident Number: NAPP232775137	/b
			00.	0.100				Job Number: 03C1558279	
					SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
		2.153403						Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, respect easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
					1	0	SP	0-1', SAND, reddish brown, v	very fine to fine
D	26,639	148	N	SS05	0.5	-		grained, poorly graded, dry	, no odor.
D	5,365	0	N	BH05	1 _	_ 1	TD	Auger Refusal @ 1' bgs.	
					_	-	10	Auger Nerusur @ 1 bgs.	
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								Sample Name: BH06	Date: 3/11/2024
1								Site Name: PLU Big Sinks 3-25-30	Dutc. 3/11/2024
			N	5	O I	U	V	Incident Number: NAPP23277513	76
								Job Number: 03C1558279	. •
┢──		LITHOL	OGI	c / soll s	SAMPLING	ilog		Logged By: M. O'Dell	Method: Hand Auger
Coord		2.153369			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Hole Diameter: 4"	Total Depth: 1'
					ith HACH Ch	nloride Test S	Strips and	PID for chloride and vapor, respec	· ·
								easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
					Д	0	SP	0-1', SAND, brown, very fine grained, poorly graded, dry	e to fine v. no odor
D	11,754	82.6	Ν	SS06	0.5	-		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
D	2,358	0	N	BH06	1	_ 1			
∥ ັ	_,550		'	27100		- 1	TD	Auger Refusal @ 1' bgs.	
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						_ 2			
					-	-			
					-	-			
					_	_ 3			
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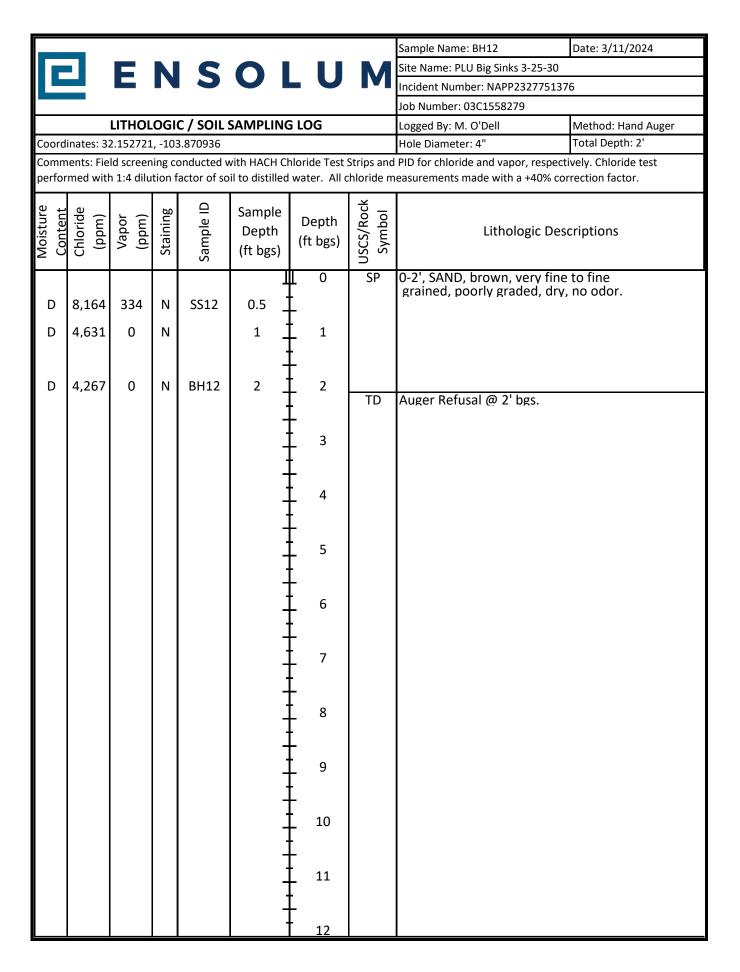
								Sample Name: BH07	Date: 3/11/2024
~								Site Name: PLU Big Sinks 3-25-30	Date. 5/11/2024
			N	5	OI	U	M	Incident Number: NAPP232775137	76
								Job Number: 03C1558279	-0
		LITHO	OG!	^ / SOIL 6	SAMPLING	106		Logged By: M. O'Dell	Method: Hand Auger
Coord		2.153260			AIVIPLING	100		Hole Diameter: 4"	Total Depth: 1'
					ith HACH Ch	olorida Tast 9	Strine and	PID for chloride and vapor, respect	· ·
								easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
1					1	0	SP	0-1', SAND, brown, very fine	to fine
D	19,768	18.6	N	SS07	0.5	<u>-</u>		grained, poorly graded, dry,	, no odor.
						- 4			
D	5,813	0	N	BH07	1 _	_ 1	TD	Auger Refusal @ 1' bgs.	
						_		C	
					-	2			
						-			
					_	_			
						3			
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					-	<u> </u>			
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					_	5			
					_	_ 5			
					_	-			
					_	6			
					_	-			
						7			
1					-	-			
					-	-			
					_	8			
					_	-			
						9			
					_	_ 9			
					_	-			
					-	10			
					-	-			
					_	_			
						11			
					_	-			
					-	-			
						12			

								Sample Name: BH08	Date: 3/11/2024
			N	C	OI	- 11	RA	Site Name: PLU Big Sinks 3-25-30)
			N			_ U		Incident Number: NAPP2327751	376
								Job Number: 03C1558279	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord	inates: 32	2.152950	, -103	3.869111				Hole Diameter: 4"	Total Depth: 2'
								PID for chloride and vapor, respe easurements made with a +40% o	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
					1	0	SP	0-2', SAND, brown, very fir	ne to fine
D	24,018	1,6	N	SS08	0.5	-		grained, poorly graded, dr	y, no odor.
_	1 255		N.						
D	1,355	0	N		1 _	_ 1			
					_				
D	3,349	0	N	BH08	2	_ 2			
					_	-	TD	Auger Refusal @ 2' bgs.	
					-	_			
					_	_ 3			
					-	-			
					- - -	- - 4 -			
						- - - 5			
					- -	- 6			
					-	- - 7			
					- - -	- 8			
					-	- - - 9			
					- - -	10			
					- - -	- - - 11			
					<u>-</u>	12			

								Sample Name: BH09	Date: 3/11/2024
			N	C			R.A	Site Name: PLU Big Sinks 3-25-30	•
			N	3		LU	V	Incident Number: NAPP232775137	76
								Job Number: 03C1558279	
		LITHOL	.OGI	C / SOIL	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
		2.152855						Hole Diameter: 4"	Total Depth: 3'
								PID for chloride and vapor, respect easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
D	498.2	153.2	N	SS09	0.5	0	SW	0-3', SAND, brown, very fine grained, poorly graded, dry	to fine , no odor.
D	2,901	0	N		1 _	1			
D	5,365	0	N		2 _	2			
D	6,356	0	N	BH09	3 _	3	TD	Auger Refusal @ 3' bgs.	
					- - -	4			
					- - -	- 5			
					- - -	6			
					- - -	- - 7			
					- - - -	- _ 8			
					- - - -	9			
					- - -	10			
					- - - -	11			
					-	12			

								Sample Name: BH10	Date: 3/11/2024
			N					Site Name: PLU Big Sinks 3-25-3	
			N	3	OI	_ U	V	Incident Number: NAPP232775:	
								Job Number: 03C1558279	
		LITHOL	.OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord	inates: 32	2.152850	, -103	3.869964				Hole Diameter: 4"	Total Depth: 2'
								PID for chloride and vapor, resp easurements made with a +40%	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
					1	0	SP	0-2', SAND, brown, very fi	ne to fine
D	230	230	N	SS10	0.5	-		grained, poorly graded, d	ry, no oaor.
						-			
D	2,716	0	N		1 _	_ 1			
					_	_			
D	6,356	0	N	BH10	2	_ 2			
	.,				_	-	TD	Auger Refusal @ 2' bgs.	
					-	_			
					-	_ 3			
					-	-			
					- - -	4			
					-	<u> </u>			
					- - -	- 6			
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					-				
					-	8 -			
					- - -	9 -			
						10			
					- - -	- _ 11			
					<u>-</u>	- 12			

								Sample Name: BH11	Date: 3/11/2024
								Site Name: PLU Big Sinks 3-25-30	Date: 3/11/2024
			N	5	OL	J	M	Incident Number: NAPP232775137	76
								Job Number: 03C1558279	<u> </u>
\vdash		LITHOL	OGI	C / SOIL S	SAMPLING	ilog		Logged By: M. O'Dell	Method: Hand Auger
Coord	inates: 32				ZATALI ELIAC			Hole Diameter: 4"	Total Depth: 1'
					ith HACH Ch	nloride Test (Strips and	PID for chloride and vapor, respect	· ·
								easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
						0	SP	0-1', SAND, brown, very fine grained, poorly graded, dry,	to fine
D	301.4	301.4	N	SS11	0.5	-		graineu, poorty gradeu, dry,	, 110 Odor.
_						- 1			
D	409	0	N	BH11	1 _	_ 1	TD	Auger Refusal @ 1' bgs.	
						_			
					-	2			
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						12			





APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



March 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Tamara Oldaker

Sample Received By:

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 03/12/2024
 Sampling Date:
 03/11/2024

 Reported:
 03/13/2024
 Sampling Type:
 Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Location: XTO 32.15314,-103.86766

03C1558279

Sample ID: BH 11 1' (H241234-01)

Project Number:

DTEV 0021D

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 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	272	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Applyand By 14

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: BH 12 2' (H241234-02)

BTEX 8021B

DILX GOZID	mg/ kg		Allulyzeu by. 511						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 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	2200	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: BH 01 @ 1' (H241234-03)

BTEX 8021B

DIEX GOZID	iiig/	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6600	16.0	03/13/2024	ND	432	108	400	0.00	QM-07, QR-03
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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: BH 02 @ 1' (H241234-04)

BTEX 8021B

mg/kg Analyzed E		и ву: эп							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 03 @ 1' (H241234-05)

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49 1-14	8						

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 04 @ 1' (H241234-06)

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	112 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 05 @ 1' (H241234-07)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: BH 06 @ 1' (H241234-08)

BTEX 8021B

BIEX 9021B	mg	кg	Апатуге	а ву: эп					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogata: 1 Chloroctadacana	108	0/2 10 1 14	Q						

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 07 @ 1' (H241234-09)

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 08 @ 2' (H241234-10)

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 09 @ 3' (H241234-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: BH 10 @ 2' (H241234-12)

BTEX 8021B

STEX 8021B mg/kg		Allalyze	а ву: эп						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	03/13/2024	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	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	103 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Notes and Definitions

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.

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

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Celey D. Keene

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Address: 0122 National Parky Hwy City: Cay Isbad State: NM Zip: 88220 Priore #: (999) 854 - 0852 Fax #: Address: 3104 Fa Green St. Address: 3104 Fa Green St.
Cay Isbad State: N.M. Zip: 88220 Attn: AMY R
Valorial Days
PO#: ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: En SOIN	um, LLC	70
Project Manager: Ben	Belill P.O.#	ANALYSIS REQUEST
Address: 3122 National	Parks HWU Com	Freedu
City: CAYISDAD	ip: 88220	PU
489-854	Address:	F. Greano. +
Project #: 03(1558)	270 Project Owner: City: CANSh	720
Project Name: PLU BIC	State: NM Zip:	D: 89770
Project Location: 32, 15	314, -103.80700 Phone #:	N. K. C.
Sampler Name: N. O'	(Fax #:	
TOR ON USE ONLY	MATRIX	SAMPLING
Lab I.D. Sa	G)RAB OR (C)ON CONTAINERS GROUNDWATER VASTEWATER FOIL LUDGE OTHER: CID/BASE: CE / COOL THER:	Chloric TPH BTEX
2 BH02	- 1 ×	0
S BH 03	-	W. V.
2 BH05		10:15
9 BHOR	01	11:05
10 BH08	0.2:	11:45
12 BH10	(C) 2	12:10
EASE NOTE: Liability and Damages. Cardinal's li alyses. All claims including those for negligence at vice. In no event shall Cardinal be liable for incide	EASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the byses. All claims including those for negligence and any other cause whatspower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the amount of the amoun	12.2.30 0 6 8
elinquished By:	performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Received Run. Received Run.	arred by client, its subsidiaries, stated reasons or otherwise.
MO JUNG	7 Time: 20:39	Verbal Result: U Yes D No Add'! Phone #: All Results are emailed. Please provide Email address:
on Marsing Dy.	Time: 475	Cost Center: 114013100
elivered By: (Circle One)	Sample Condition CH	Turnaround Time: Standa
FORM-oos R 3 3 07 (87)	Corrected Temp. °C	Rysh D



March 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 03/12/2024
 Sampling Date:
 03/11/2024

 Reported:
 03/13/2024
 Sampling Type:
 Soil

Reported: 03/13/2024 Sampling Type: Soil
Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 13 0.5' (H241235-01)

DTEV 0021D

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	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	03/13/2024	ND	228	114	200	0.652	QM-07
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 14 0.5' (H241235-02)

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	6 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 15 0.5' (H241235-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 16 0.5' (H241235-04)

RTFY 8021R

Result <0.050	Reporting Limit	Analyzed	Method Blank	BS	O/ Doggvom/	T \/- OC	DDD	
<0.050				03	% Recovery	True Value QC	RPD	Qualifier
	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
<0.300	0.300	03/12/2024	ND					
94.0	% 71.5-13	4						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	03/13/2024	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
<10.0	10.0	03/12/2024	ND					
105 9	% 48.2-13	4						
120 9	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300 94.0 mg/ Result 32.0 mg/ Color = 10.0 <10.0 <10.0 105.5	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 94.0 % 71.5-13 mg/kg Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SS 17 0.5' (H241235-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 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	464	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 18 0.5' (H241235-06)

RTFY 8021R

BIEX 8021B	mg,	кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						
Surroguic. 1 Chioroociaaccane	107	70 77.1-17	U						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 19 0.5' (H241235-07)

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	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 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	16.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SS 20 0.5' (H241235-08)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 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	32.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 21 0.5' (H241235-09)

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	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	112	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 22 0.5' (H241235-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	16.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 23 0.5' (H241235-11)

RTFY 8021R

B1EX 8021B	mg,	^и кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	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	32.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 24 0.5' (H241235-12)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	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	<16.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 25 0.5' (H241235-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 26 0.5' (H241235-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	16.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Coo

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 27 0.5' (H241235-15)

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	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	32.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	95.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 28 0.5' (H241235-16)

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	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	32.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 29 0.5' (H241235-17)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 30 0.5' (H241235-18)

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	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	16.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 31 0.5' (H241235-19)

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	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: A						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2024	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	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 32 0.5' (H241235-20)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/13/2024	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	03/13/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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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

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Celey D. Keene

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Laboratories 101 East Markand, Hobbs, NM, 88220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326	(575) 393-2326 FAX (575) 393-2476	0.40 2476		1 of 2	
Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO	ANALYSIS REQUEST	_
Project Manager:	Ben Beli				- 1	_
Address: 3122	ohal	Parks Hwu		company: XTO ENERO	erdy	
city: CarlSba	,	State: NN	zip: 88220	Attn: Amy Rut		
Phone #: 080	354	-0852 Fax #:		Address: 3104 E. G	Greene St	
Project #: 03(27	Project Owner:		bad		
Project Name:	LU BIG SI	nks 3-25	30		220	
Project Location:	32.153	14 - 103.8	SID TUDE	Phone #:		
Sampler Name:	M-0'De			Fax #:		
FOR LAB USE ONLY			MATRIX	PRESERV. SAM	SAMPLING	
Lab I.D.	Sample I.D.		WATER		ioride H	
H241835		(leet)	# CONTA GROUNI WASTEV SOIL OIL SLUDGE	ACID/BA ICE / CO OTHER :	Ch TP BTE	
J -	0513	0.5	61 X	X 311/24	- In-	
n n	4100				13:05	
4	2516				12:55	
0	4TSS				12:50	
16	2770				13:35	
00	5520				13:53	
9	5521	\	*	7	13:50 7 4 4	
LEASE NOTE: Liability and	Damages. Cardinal's liability and	and client's exclusive remedy for any claim	arising whether based in confra	oct or tort, shall be limited to the amount paid	13:55 0 0 0 0	_
nalyses. All claims including those for negligence and any oftw ervice. In no event shall Cardinal be liable for incidental or con filliates or successors arising out of or related to the performan	those for negligence and any linal be liable for incidental or out of or related to the perfor	rother cause whatsoever shall be or consequental damages, including mance of services hereunder by C	waived unless made in writing a limitation, business interruption regardless of whether such claim	received by Cardinal within 30 days after as of use, or loss of profits incurred by cl based upon any of the above stated rea	completion of the applicable lend, to subodomine, lend to subodomine lend to subodo	
Relinquished By:	ma an	Date: 1174	Received		(0)	
Mill	MANGE	20:40			bbolille ensolum.com, modelle ensolum.com	
Relinquished By:		Date: 2-24	Received By:		REMARKS: Incident #: nApp2327751376 Cost center: 1140131001	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	de One)	Observed Temp. °C	Sample Condition Cool Intact	n CHE	ne:	
				100	#17 1974	

Relinquished By:

Received

Received By

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

0000

Sample Condition
Cool Intact
Yes Yes
No No

CHECKEDBY Initias:

24 hrs

Standard

Bacteria (only) Sample Condition Cool Intact Observed Temp.

Observed Temp, °C Corrected Temp. °C

Yes Yes

meter ID

Cost center : 1140131001

solum.com

Verbal Result: ☐ Yes

☐ No Add'I Phone #:

Relinquished

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Company Name: Ensolum, LLC	Ensolum, LLC		BILL TO	ANALYSIS REQUEST
roject Manager	Project Manager: BEN BENN		P.O. #:	
Address: 3122	Address: 3122 National Parks	TKS HWW	Company: XTO ENEXAU	
City: Carlsbac	bad			
Phone #: 989	- 854-0852 Fax #:	Fax #:	Address: 3104 E. Greene S.	
Project #: 03G	G 1558279	Project Owner:	city: Carlsbad	
Project Name:	Ly Big Sinks	3-25-30	State: N M Zip: 8 822.0	
Project Location:	32.15314	-103. BUTUL	Phone #:	
Sampler Name:	M. 0' Dell		Fax #:	
FOR LAB LISE ONLY		ρ.	MATRIX PRESERV. SAMPLING	les
Lab I.D.	Sample I.D.	(feet) (G)RAB OR (C)OME CONTAINERS GROUNDWATER	WASTEWATER SOIL DIL SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	Chloric TPH BTEX
//	8823	1-	×	$\times \times \times$
12	S S 24		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
13	SS25		14:10	
14	SS26		14:20	
15	5527		14:25	
11	SS28		14:30	
17	5529		14:35	
18	5550		14:40	
19	SS31	+	14:50	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		0	X 0 15:00	0 0 0

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/20/2023 10:54:06 AM

JOB DESCRIPTION

PLU BIG SINKS 3-25-30 SDG NUMBER 03C1558279

JOB NUMBER

890-5458-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 10/20/2023 10:54:06 AM

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

Client: Ensolum Laboratory Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30

SDG: 03C1558279

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Definitions/Glossary

Job ID: 890-5458-1 Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
4	1.00 1/ 1.000 :

LCS and/or LCSD is outside acceptance limits, high biased.

F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

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

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 Contains Free Liquid CFL CFU Colony Forming Unit Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

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

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1

SDG: 03C1558279

Job ID: 890-5458-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5458-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/13/2023 3:53 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 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5458-1), SS02 (890-5458-2), SS03 (890-5458-3), SS04 (890-5458-4), SS05 (890-5458-5), SS06 (890-5458-6), SS07 (890-5458-7), SS08 (890-5458-8), SS09 (890-5458-9), SS010 (890-5458-10), SS011 (890-5458-11) and SS012 (890-5458-12).

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: The surrogate recovery for the blank associated with preparation batch 880-64905 and analytical batch 880-64848 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-5458-1), SS02 (890-5458-2), SS05 (890-5458-5) and SS08 (890-5458-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64848/31), (CCV 880-64848/47) and (CCV 880-64848/58). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-64907 and analytical batch 880-64930 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS09 (890-5458-9), SS010 (890-5458-10), SS011 (890-5458-11), SS012 (890-5458-12), (890-5458-A-9-B MS) and (890-5458-A-9-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64930/31) and (CCV 880-64930/47). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-64907 and analytical batch 880-64930 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-64907 and analytical batch 880-64930 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28). Since only an acceptable LCS is

Case Narrative

Client: Ensolum

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1

SDG: 03C1558279

Job ID: 890-5458-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

required per the method, the data has been qualified and reported.

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 880-64945 and analytical batch 880-64999 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.

Client Sample Results

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS01 Lab Sample ID: 890-5458-1

Date Collected: 10/13/23 12:05 Matrix: Solid Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/18/23 14:36	10/19/23 12:31	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/18/23 14:36	10/19/23 12:31	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/19/23 12:31	1
Method: SW846 8015 NM - Dies Analyte		Qualifier	RL	Unit	D	Prepared	A	
Total TPH	81.6		49.6	 mg/Kg			Analyzed 10/18/23 02:54	
		rice (DDO)	49.6			Troparcu		
Method: SW846 8015B NM - Die	sel Range Orga		49.6 (GC)	mg/Kg	-		10/18/23 02:54	1
Method: SW846 8015B NM - Die Analyte	esel Range Orga Result	Qualifier	49.6 (GC)	mg/Kg	<u>D</u>	Prepared	10/18/23 02:54 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	sel Range Orga	Qualifier	49.6 (GC)	mg/Kg	-		10/18/23 02:54	1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range Orga Result	Qualifier	49.6 (GC)	mg/Kg	-	Prepared	10/18/23 02:54 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	esel Range Orga Result <49.6	Qualifier U	49.6 (GC) RL 49.6	mg/Kg Unit mg/Kg	-	Prepared 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range Orga Result <49.6	Qualifier U	49.6 (GC) RL 49.6 49.6	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/17/23 15:26 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 49.6 81.6 %Recovery	Qualifier U	49.6 (GC) RL 49.6 49.6 49.6 49.6	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26	Analyzed 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54	Dil Face 1 1 1 Dil Face
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 49.6 81.6 %Recovery	Qualifier U Qualifier	49.6 (GC) RL 49.6 49.6 49.6 Limits	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared	Analyzed 10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.6	Qualifier U Qualifier S1+	49.6 RL 49.6 49.6 49.6 49.6 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54 Analyzed 10/18/23 02:54	1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	esel Range Orga Result <49.6 81.6 <49.6 %Recovery 136 115 n Chromatograp	Qualifier U Qualifier S1+	49.6 RL 49.6 49.6 49.6 49.6 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54 Analyzed 10/18/23 02:54	Dil Fac

Lab Sample ID: 890-5458-2 **Client Sample ID: SS02**

Date Collected: 10/13/23 12:10 Date Received: 10/13/23 15:53

Sample Depth: .05'

Method: SW846 8021B - Volatile Organic Compounds (6	3C)
Analyte Result Qualifier	

Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Analyzea	DII Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/19/23 13:06	10/19/23 23:38	1

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Matrix: Solid

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Client Sample ID: SS02 Lab Sample ID: 890-5458-2

Date Collected: 10/13/23 12:10

Date Received: 10/13/23 15:53

Matrix: Solid

Sample Depth: .05'

0	N/Banasana Ossalifian Limita	D
	Totalio organio compoundo (oo) (continuou)	
I WELLIOU. 377040 OUZ II	5 - volatile Organic Compounds (GC) (Continued)	

Surrogate	%Recovery	Qualifier	Limits		Preparea	Anaiyzea	DII Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	_	10/19/23 13:06	10/19/23 23:38	1

Method: TAL SOP Total BTE				_		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyze

Allalyte	ixesuit	Qualifici	INL.	Oilit	 riepaieu	Allalyzeu	Diriac
Total BTEX	<0.00399	U	0.00399	mg/Kg		10/19/23 23:38	1
_							

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	370	50.5	ma/Ka			10/18/23 03:17	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	98.7	50.5	mg/Kg		10/17/23 15:26	10/18/23 03:17	1
Diesel Range Organics (Over C10-C28)	271	50.5	mg/Kg		10/17/23 15:26	10/18/23 03:17	1
Oll Range Organics (Over C28-C36)	<50.5 U	50.5	mg/Kg		10/17/23 15:26	10/18/23 03:17	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	131	S1+	70 - 130	10/17/23 15:2	5 10/18/23 03:17	1
Į	o-Terphenyl	108		70 - 130	10/17/23 15:20	6 10/18/23 03:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chlorido	20600	248	ma/Ka			10/18/23 15:06	50	

Client Sample ID: SS03 Lab Sample ID: 890-5458-3

Date Collected: 10/13/23 10:45

Date Received: 10/13/23 15:53

Matrix: Solid

Sample Depth: .05'

Xylenes, Total

Method: SW846 8021B - Vol	atile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00199	U	0.00199	mg/Kg	_	10/19/23 13:06	10/19/23 23:59
Toluene	<0.00199	U	0.00199	mg/Kg		10/19/23 13:06	10/19/23 23:59
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/19/23 13:06	10/19/23 23:59
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/19/23 13:06	10/19/23 23:59
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/19/23 13:06	10/19/23 23:59

<0.00398 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/19/23 13:06	10/19/23 23:59	1

0.00398

mg/Kg

4-Bromofluorobenzene (Surr)	86	70 - 130	10/19/23 13:06	10/19/23 23:59	1
1,4-Difluorobenzene (Surr)	92	70 - 130	10/19/23 13:06	10/19/23 23:59	1

Method: TAL SOP Total BTEX - Total							
Analyte	Result Qualifi	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	mg/Kg			10/19/23 23:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1 U	50.1	ma/Ka			10/18/23 03:40		

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10/19/23 23:59

10/19/23 13:06

Dil Fac

Client Sample Results

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS03

Lab Sample ID: 890-5458-3 Matrix: Solid

Date Received: 10/13/23 15:53

Date Collected: 10/13/23 10:45

Sample Depth: .05'

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 03:40	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 03:40	
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 03:40	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	101		70 - 130			10/17/23 15:26	10/18/23 03:40	
o-Terphenyl	84		70 - 130			10/17/23 15:26	10/18/23 03:40	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	16100		99.8	mg/Kg			10/18/23 15:12	20

Client Sample ID: SS04 Lab Sample ID: 890-5458-4 Date Collected: 10/13/23 10:50 Matrix: Solid

Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/19/23 13:06	10/20/23 00:19	1
1,4-Difluorobenzene (Surr)	75		70 - 130			10/19/23 13:06	10/20/23 00:19	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/20/23 00:19	1
-								
Method: SW846 8015 NM - Diese			GC)					
Analyte	Result	Qualifier	GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 10/18/23 04:03	Dil Fac
Analyte	Result < 50.1	Qualifier U	50.1		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.1	Qualifier U	50.1		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.1	Qualifier Unics (DRO) Qualifier	RL 50.1	mg/Kg		<u> </u>	10/18/23 04:03	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.1 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg		Prepared	10/18/23 04:03 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.1 sel Range Orga Result <50.1	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.1	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26	10/18/23 04:03 Analyzed 10/18/23 04:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.1 sel Range Orga Result <50.1	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.1	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26	10/18/23 04:03 Analyzed 10/18/23 04:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1	Qualifier U nics (DRO) Qualifier U U	RL 50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 15:26 10/17/23 15:26	10/18/23 04:03 Analyzed 10/18/23 04:03 10/18/23 04:03	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.1	Qualifier U nics (DRO) Qualifier U U	RL 50.1 (GC) RL 50.1 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26	10/18/23 04:03 Analyzed 10/18/23 04:03 10/18/23 04:03 10/18/23 04:03	1 Dil Fac 1 1

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Matrix: Solid

Lab Sample ID: 890-5458-4

Client Sample Results

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Client Sample ID: SS04

Date Collected: 10/13/23 10:50 Date Received: 10/13/23 15:53

Sample Depth: .05'

	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
1	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
L	Chloride	7430		50.4	mg/Kg			10/18/23 15:17	10		

Client Sample ID: SS05

Date Collected: 10/13/23 10:55

Lab Sample ID: 890-5458-5

Matrix: Solid

Date Collected: 10/13/23 10:55 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	
Toluene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/19/23 13:06	10/20/23 00:40	
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/19/23 13:06	10/20/23 00:40	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130			10/19/23 13:06	10/20/23 00:40	
1,4-Difluorobenzene (Surr)	79		70 - 130			10/19/23 13:06	10/20/23 00:40	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/20/23 00:40	•
Method: SW846 8015 NM - Diese			•					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.5	U	49.5	mg/Kg			10/18/23 04:26	•
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		10/17/23 15:26	10/18/23 04:26	•
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		10/17/23 15:26	10/18/23 04:26	
Oll Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		10/17/23 15:26	10/18/23 04:26	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	133	S1+	70 - 130			10/17/23 15:26	10/18/23 04:26	
o-Terphenyl	111		70 - 130			10/17/23 15:26	10/18/23 04:26	
•			la.					
Method: EPA 300.0 - Anions, Ion	Chromatograp	iny - Solubi	ie					
Method: EPA 300.0 - Anions, Ion Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Matrix: Solid

Lab Sample ID: 890-5458-6

Client Sample Results

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Client Sample ID: SS06

Date Collected: 10/13/23 11:00 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/19/23 13:06	10/20/23 01:00	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/19/23 13:06	10/20/23 01:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00401	U	0.00401	mg/Kg			10/20/23 01:00	1
	_								

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			10/18/23 04:48	1

<49.7	U	49.7	mg/Kg		10/17/23 15:26	10/18/23 04:48	1
<49.7	U	49.7	mg/Kg		10/17/23 15:26	10/18/23 04:48	1
<49.7	U	49.7	mg/Kg		10/17/23 15:26	10/18/23 04:48	1
	<49.7	<49.7 U	<49.7 U 49.7	<49.7 U 49.7 mg/Kg	<49.7 U 49.7 mg/Kg	<49.7 U 49.7 mg/Kg 10/17/23 15:26	<49.7 U 49.7 mg/Kg 10/17/23 15:26 10/18/23 04:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	10/17/23 15:26	10/18/23 04:48	1
o-Terphenyl	108		70 - 130	10/17/23 15:26	10/18/23 04:48	1
_						

Method: EPA 300.0 - Anions, ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	8440		49.5	mg/Kg			10/18/23 15:40	10	

Client Sample ID: SS07 Lab Sample ID: 890-5458-7

Date Collected: 10/13/23 11:05 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/19/23 13:06	10/20/23 01:21	

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Matrix: Solid

Job ID: 890-5458-1

Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS07 Lab Sample ID: 890-5458-7

Date Collected: 10/13/23 11:05 Matrix: Solid Date Received: 10/13/23 15:53

Sample Depth: .05'

Method: SW846 8021B - Vola	atile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	79	70 - 130	10/19/23 13:06	10/20/23 01:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg		_	10/20/23 01:21	1

Method: SW846 8015 NM - Diese	L Danna Ornaniaa (DDO) (C	\sim
- Niethod: Syvoan bulls Nivi - Diese	i Rande Ordanics (DRO) (G	

	g. c.gc (=c) (=.	7					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3 U	50.3	mg/Kg			10/18/23 05:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		10/17/23 15:26	10/18/23 05:09	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		10/17/23 15:26	10/18/23 05:09	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		10/17/23 15:26	10/18/23 05:09	1
Surrogate	%Pecovery	Qualifier	l imite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127	70 - 130	10/17/23 15:26	10/18/23 05:09	1
o-Terphenyl	108	70 - 130	10/17/23 15:26	10/18/23 05:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19600	99.2	mg/Kg			10/18/23 15:45	20

Client Sample ID: SS08 Lab Sample ID: 890-5458-8 **Matrix: Solid**

Date Collected: 10/13/23 11:10 Date Received: 10/13/23 15:53

Sample Depth: .05'

Mathad, CINIO AC OC	21B - Volatile Organic	Campainda (CC)
- Memon: Syva4b au	IZTB - Volatile Urganic	Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
Toluene	0.00357		0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/18/23 14:36	10/19/23 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prej	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/18/2	23 14:36	10/19/23 17:25	1
1.4-Difluorobenzene (Surr)	100		70 - 130	10/18/2	23 14:36	10/19/23 17:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			10/19/23 17:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel Rang	e Organics	(DRO)	(GC
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			10/18/23 05:31	1

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Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS08 Lab Sample ID: 890-5458-8

Date Collected: 10/13/23 11:10 Matrix: Solid Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		10/17/23 15:26	10/18/23 05:31	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		10/17/23 15:26	10/18/23 05:31	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		10/17/23 15:26	10/18/23 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			10/17/23 15:26	10/18/23 05:31	1
o-Terphenyl	121		70 - 130			10/17/23 15:26	10/18/23 05:31	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS09 Lab Sample ID: 890-5458-9 Matrix: Solid

249

mg/Kg

26800

Date Collected: 10/13/23 12:15 Date Received: 10/13/23 15:53

Sample Depth: .05'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			10/18/23 14:36	10/19/23 17:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/18/23 14:36	10/19/23 17:45	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/19/23 17:45	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			10/18/23 21:09	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		10/17/23 16:16	10/18/23 21:09	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1 *+	49.6	mg/Kg		10/17/23 16:16	10/18/23 21:09	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		10/17/23 16:16	10/18/23 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130			10/17/23 16:16	10/18/23 21:09	1
		S1+	70 - 130			10/17/23 16:16	10/18/23 21:09	

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10/18/23 15:51

Job ID: 890-5458-1

Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Lab Sample ID: 890-5458-9

Date Collected: 10/13/23 12:15 Date Received: 10/13/23 15:53

Client Sample ID: SS09

Matrix: Solid

Sample Depth: .05'

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380	5.00	mg/Kg			10/18/23 15:57	1

Client Sample ID: SS010 Lab Sample ID: 890-5458-10

Matrix: Solid

Date Collected: 10/13/23 12:20 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:06	
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	97		70 - 130			10/18/23 14:36	10/19/23 18:06	
1,4-Difluorobenzene (Surr)	100		70 - 130			10/18/23 14:36	10/19/23 18:06	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/19/23 18:06	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
		(= , (00)					
*		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	Result <50.5	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/18/23 22:13	
Total TPH	<50.5	Qualifier U	RL 50.5		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	<50.5	Qualifier U	RL 50.5		<u>D</u>	Prepared Prepared		,
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<50.5	Qualifier U nics (DRO) Qualifier	RL 50.5	mg/Kg			10/18/23 22:13	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.5 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg		Prepared	10/18/23 22:13 Analyzed	Dil Fa
	<50.5 sel Range Orga Result <50.5	Qualifier U nics (DRO) Qualifier U U *+	RL 50.5 (GC) RL 50.5	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16	10/18/23 22:13 Analyzed 10/18/23 22:13	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.5 sel Range Orga Result <50.5 <50.5	Qualifier U nics (DRO) Qualifier U U *+	RL 50.5 (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16	10/18/23 22:13 Analyzed 10/18/23 22:13 10/18/23 22:13	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.5 sel Range Orga Result <50.5 <50.5 <50.5	Qualifier U nics (DRO) Qualifier U U *+ U Qualifier	RL 50.5 (GC) RL 50.5 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16	Analyzed 10/18/23 22:13 Analyzed 10/18/23 22:13 10/18/23 22:13	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.5 sel Range Orga Result <50.5 <50.5 <50.5 %Recovery	Qualifier U nics (DRO) Qualifier U U *+ U Qualifier	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared	Analyzed 10/18/23 22:13 Analyzed 10/18/23 22:13 10/18/23 22:13 10/18/23 22:13 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.5 sel Range Orga Result <50.5 <50.5 <50.5 %Recovery 154 126	Qualifier U nics (DRO) Qualifier U U *+ U Qualifier S1+	RL 50.5 (GC) RL 50.5 50.5 50.5 20.5 10.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16	Analyzed 10/18/23 22:13 Analyzed 10/18/23 22:13 10/18/23 22:13 Analyzed 10/18/23 22:13	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.5 sel Range Orga Result <50.5 <50.5 <50.5 *Recovery 154 126 Chromatograp	Qualifier U nics (DRO) Qualifier U U *+ U Qualifier S1+	RL 50.5 (GC) RL 50.5 50.5 50.5 20.5 10.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16	Analyzed 10/18/23 22:13 Analyzed 10/18/23 22:13 10/18/23 22:13 Analyzed 10/18/23 22:13	Dil Fac

Matrix: Solid

Lab Sample ID: 890-5458-11

Job ID: 890-5458-1

Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS011

Date Collected: 10/13/23 12:25 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/18/23 14:36	10/19/23 18:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/18/23 14:36	10/19/23 18:26	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Martina de OMO 40 0045 NM - Diagra								
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
	•	ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/18/23 22:34	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		<u> </u>	10/18/23 22:34	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	10/18/23 22:34 Analyzed	Dil Fac
Analyte	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U U *+	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16	10/18/23 22:34 Analyzed 10/18/23 22:34	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U *+	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16	10/18/23 22:34 Analyzed 10/18/23 22:34 10/18/23 22:34	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U U *+ U Qualifier	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16	10/18/23 22:34 Analyzed 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U *+ U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared	Analyzed 10/18/23 22:34 Analyzed 10/18/23 22:34 10/18/23 22:34 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U*+ U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16	10/18/23 22:34 Analyzed 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34 Analyzed 10/18/23 22:34	Dil Fac 1 1 Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U U*+ U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16	10/18/23 22:34 Analyzed 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34 Analyzed 10/18/23 22:34	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 5

Client Sample ID: SS012 Lab Sample ID: 890-5458-12

Date Collected: 10/13/23 12:30 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/18/23 14:36	10/19/23 18:47	

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Matrix: Solid

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Client Sample ID: SS012 Lab Sample ID: 890-5458-12

Date Collected: 10/13/23 12:30 Date Received: 10/13/23 15:53

Sample Depth: .05'

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130			10/18/23 14:36	10/19/23 18:47	1
Method: TAL SOP Total BTEX -	Tatal BTEV Cale	letien						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398	mg/Kg	_ =	Frepareu	10/19/23 18:47	1
Iotal BTEX	<0.00390	U	0.00398	mg/Kg			10/19/23 10.47	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			10/18/23 22:55	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics	<49.6	U	49.6	mg/Kg		10/17/23 16:16	10/18/23 22:55	1
(GRO)-C6-C10								1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.6 <49.6		49.6	mg/Kg		10/17/23 16:16 10/17/23 16:16	10/18/23 22:55 10/18/23 22:55	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6	mg/Kg		10/17/23 16:16	10/18/23 22:55	1
(GRO)-C6-C10 Diesel Range Organics (Over		U *+						1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6	mg/Kg		10/17/23 16:16	10/18/23 22:55	1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.6 <49.6	U *+	49.6 49.6	mg/Kg		10/17/23 16:16 10/17/23 16:16	10/18/23 22:55 10/18/23 22:55	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.6 <49.6 <i>%Recovery</i>	U *+ U Qualifier	49.6 49.6 <i>Limits</i>	mg/Kg		10/17/23 16:16 10/17/23 16:16 Prepared	10/18/23 22:55 10/18/23 22:55 Analyzed	1

49.8

mg/Kg

5260

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10/18/23 16:25

Surrogate Summary

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
 890-5458-1	SS01	94	94	
890-5458-1 MS	SS01	102	96	
890-5458-1 MSD	SS01	100	89	
890-5458-2	SS02	92	106	
890-5458-3	SS03	86	92	
890-5458-4	SS04	95	75	
890-5458-5	SS05	99	79	
890-5458-6	SS06	97	80	
890-5458-7	SS07	98	79	
890-5458-8	SS08	89	100	
890-5458-9	SS09	85	103	
890-5458-10	SS010	97	100	
890-5458-11	SS011	101	107	
890-5458-12	SS012	97	101	
890-5473-A-1-E MS	Matrix Spike	123	104	
890-5473-A-1-F MSD	Matrix Spike Duplicate	125	115	
LCS 880-64991/1-A	Lab Control Sample	114	108	
LCS 880-65043/1-A	Lab Control Sample	126	102	
LCSD 880-64991/2-A	Lab Control Sample Dup	114	107	
LCSD 880-65043/2-A	Lab Control Sample Dup	127	109	
MB 880-64991/5-A	Method Blank	108	122	
MB 880-64998/5-A	Method Blank	77	91	
	Method Blank	80	86	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34522-A-3-D MS	Matrix Spike	127	96	
880-34522-A-3-E MSD	Matrix Spike Duplicate	126	94	
890-5458-1	SS01	136 S1+	115	
890-5458-2	SS02	131 S1+	108	
890-5458-3	SS03	101	84	
890-5458-4	SS04	127	105	
890-5458-5	SS05	133 S1+	111	
890-5458-6	SS06	129	108	
890-5458-7	SS07	127	108	
890-5458-8	SS08	142 S1+	121	
890-5458-9	SS09	163 S1+	136 S1+	
890-5458-9 MS	SS09	153 S1+	111	
890-5458-9 MSD	SS09	155 S1+	109	
890-5458-10	SS010	154 S1+	126	
890-5458-11	SS011	145 S1+	121	
890-5458-12	SS012	139 S1+	116	

Surrogate Summary

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
CS 880-64905/2-A	Lab Control Sample	95	89	
CS 880-64907/2-A	Lab Control Sample	115	109	
_CSD 880-64905/3-A	Lab Control Sample Dup	87	86	
_CSD 880-64907/3-A	Lab Control Sample Dup	115	106	
MB 880-64905/1-A	Method Blank	171 S1+	147 S1+	
MB 880-64907/1-A	Method Blank	194 S1+	164 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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16

Job ID: 890-5458-1 Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Method: 8021B - Volatile Organic Compounds (GC)

MB MB

Lab Sample ID: MB 880-64991/5-A

Matrix: Solid Analysis Batch: 65026 Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 64991

Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
Toluene	<0.00200 U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
Ethylbenzene	<0.00200 U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
o-Xylene	<0.00200 U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
Xylenes, Total	<0.00400 U	0.00400	mg/Kg		10/18/23 14:36	10/19/23 12:02	1

MB MB Qualifier %Recovery Limits Prepared Analyzed Dil Fac Surrogate 70 - 130 10/18/23 14:36 10/19/23 12:02 4-Bromofluorobenzene (Surr) 108 122 10/18/23 14:36 10/19/23 12:02 1,4-Difluorobenzene (Surr) 70 - 130

Lab Sample ID: LCS 880-64991/1-A

Matrix: Solid

Analysis Batch: 65026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 64991

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	
Toluene	0.100	0.08923		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09020		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.08953		mg/Kg		90	70 - 130	

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 114 108 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCSD 880-64991/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 65026

Client Sample ID: Lab Control Sample Dup

70 - 130

Prep Type: Total/NA Prep Batch: 64991

LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.100 0.1134 mg/Kg 113 70 - 130 3 35 0.100 0.09004 mg/Kg 90 70 - 130 35 0.100 0.09659 mg/Kg 97 70 - 130 35 0.200 0.1952 mg/Kg 98 70 - 130 35

mg/Kg

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-5458-1 MS

Matrix: Solid

Analysis Batch: 65026

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 64991

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits U 0.0998 98 Benzene <0.00199 0.09773 mg/Kg 70 - 130 Toluene <0.00199 U 0.0998 0.07998 mg/Kg 80 70 - 130

0.100

0.09421

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QC Sample Results

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

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

Lab Sample ID: 890-5458-1 MS **Matrix: Solid**

Analysis Batch: 65026

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 64991

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U 0.0998 0.07660 77 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 U 0.200 0.1598 mg/Kg 80 70 - 130 <0.00199 U 0.0998 o-Xylene 0.08526 mg/Kg 85 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	102		70 - 130	
1,4-Difluorobenzene (Surr)	96		70 - 130	

Lab Sample ID: 890-5458-1 MSD

Matrix: Solid

Analysis Batch: 65026

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 64991

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.0996 93 Benzene <0.00199 U 0.09229 mg/Kg 70 - 130 6 35 Toluene <0.00199 0.0996 0.07966 80 35 mg/Kg 70 - 130 0 Ethylbenzene <0.00199 U 0.0996 0.07767 mg/Kg 78 70 - 130 35 0.199 0.1612 81 70 - 130 35 m-Xylene & p-Xylene <0.00398 U mg/Kg 0.0996 <0.00199 U 0.08214 82 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-64998/5-A

Matrix: Solid

Analysis Batch: 65025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64998

MR	MR

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/23 15:14	10/19/23 11:37	1

MB MB

Surrogate	%Recovery Q	Qualifier l	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	7	70 - 130	10/18/23 15:14	10/19/23 11:37	1
1,4-Difluorobenzene (Surr)	91	7	70 - 130	10/18/23 15:14	10/19/23 11:37	1

Lab Sample ID: MB 880-65043/5-A

Matrix: Solid

Analysis Batch: 65025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65043

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	10/19/23 13:06	10/19/23 22:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/19/23 13:06	10/19/23 22:15	1

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QC Sample Results

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

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

Lab Sample ID: MB 880-65043/5-A

Analysis Batch: 65025

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65043

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
	МВ	MB						

MB MB

		<i>,</i> .			
Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	10/19/23 13:06	10/19/23 22:15	1
1,4-Difluorobenzene (Surr)	86	70 - 130	10/19/23 13:06	10/19/23 22:15	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-65043/1-A **Matrix: Solid**

Lab Sample ID: LCSD 880-65043/2-A

Matrix: Solid

Analysis Batch: 65025

Prep Type: Total/NA

Prep Batch: 65043

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09647	-	mg/Kg		96	70 - 130	
Toluene	0.100	0.09660		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2215		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1225		mg/Kg		123	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	126	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65043

Analysis Batch: 65025 LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 0.100 Benzene 0.1038 mg/Kg 104 70 - 130 7 35 Toluene 0.100 0.1051 mg/Kg 105 70 - 130 8 35 Ethylbenzene 0.100 0.1105 mg/Kg 110 70 - 130 35 m-Xylene & p-Xylene 0.200 0.2397 mg/Kg 120 70 - 130 8 35 o-Xylene 0.100 0.1260 mg/Kg 126 70 - 130

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-5473-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Analysis Batch: 65025

Prep Type: Total/NA

Prep Batch: 65043

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09411		mg/Kg		94	70 - 130	
Toluene	<0.00200	U	0.0996	0.09123		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.09820		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2086		mg/Kg		105	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1075		mg/Kg		108	70 - 130	

Client: Ensolum

Job ID: 890-5458-1

SDG: 03C1558279

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

Lab Sample ID: 890-5473-A-1-E MS

Lab Sample ID: 890-5473-A-1-F MSD

Project/Site: PLU BIG SINKS 3-25-30

Matrix: Solid

Analysis Batch: 65025

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 65043

MS MS %Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 123 70 - 130 1,4-Difluorobenzene (Surr) 104 70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 65025 Prep Batch: 65043 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit U 0.100 0.09236 92 70 - 1302 35 <0.00200 mg/Kg

Analyte Benzene Toluene <0.00200 U 0.100 0.08705 mg/Kg 87 70 - 130 5 35 <0.00200 U 0.100 0.09523 mg/Kg 95 70 - 130 35 Ethylbenzene 3 m-Xylene & p-Xylene <0.00399 U 0.200 0.2005 mg/Kg 100 70 - 130 35 o-Xylene <0.00200 U 0.100 0.1035 mg/Kg 103 70 - 130 35

MSD MSD

Qualifier Surrogate %Recovery Limits 4-Bromofluorobenzene (Surr) 125 70 - 130 1,4-Difluorobenzene (Surr) 115 70 - 130

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

Lab Sample ID: MB 880-64905/1-A

Matrix: Solid

Analysis Batch: 64848

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64905

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 10/17/23 15:26 10/17/23 20:10 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 10/17/23 15:26 10/17/23 20:10 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 10/17/23 15:26 10/17/23 20:10 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 171 S1+ 70 130 10/17/23 15:26 10/17/23 20:10 o-Terphenyl 147 S1+ 10/17/23 15:26 10/17/23 20:10 70 - 130

Lab Sample ID: LCS 880-64905/2-A

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Matrix: Solid

Analysis Batch: 64848

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64905

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 107 Gasoline Range Organics 1000 1073 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 964.6 mg/Kg 96 70 - 130

C10-C28)

LCS LCS Qualifier Surrogate %Recovery Limits 1-Chlorooctane 95 70 - 130 89 o-Terphenyl 70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

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

Lab Sample ID: LCSD 880-64905/3-A

Matrix: Solid

Analysis Batch: 64848

Client Sample ID: Lab Control Sample Dup

Prep Batch: 64905

Prep Type: Total/NA Prep Batch: 64905

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1033		mg/Kg		103	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	926.6		mg/Kg		93	70 - 130	4	20
C10-C28)									

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-34522-A-3-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 64848

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.5	U	994	959.3		mg/Kg	_	93	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	58.0		994	1151		mg/Kg		110	70 - 130	
C10-C28)										

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 127 70 - 130 o-Terphenyl 96 70 - 130

Lab Sample ID: 880-34522-A-3-E MSD

Matrix: Solid

Analysis Batch: 64848

Client Sample	ID: N	Matrix S	Spike	Duplicate
		_	_	

Prep Type: Total/NA Prep Batch: 64905

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.5	U	994	939.8		mg/Kg		91	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	58.0		994	1133		mg/Kg		108	70 - 130	2	20
C10-C28)											

70 - 130

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 126 70 - 130

94

MR MR

Lab Sample ID: MB 880-64907/1-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 64930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64907

L		IND	IVID						
l	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/17/23 16:16	10/18/23 20:05	1
l	(GRO)-C6-C10								
l	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/17/23 16:16	10/18/23 20:05	1
l	C10-C28)								
l	OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/17/23 16:16	10/18/23 20:05	1

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

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

Lab Sample ID: MB 880-64907/1-A

Matrix: Solid

Analysis Batch: 64930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64907

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prej	pared	Analyzed	Dil Fac
1-Chlorooctane	194	S1+	70 - 130	10/17/2	/23 16:16	10/18/23 20:05	1
o-Terphenyl	164	S1+	70 - 130	10/17/2	/23 16:16	10/18/23 20:05	1

Lab Sample ID: LCS 880-64907/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 64930

Prep Type: Total/NA

Prep Batch: 64907

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	791.7		mg/Kg		79	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1239		mg/Kg		124	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-64907/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 64930

Prep Type: Total/NA

Prep Batch: 64907

Spike LCSD LCSD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 894.2 mg/Kg 89 70 - 130 12 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1391 *+ mg/Kg 139 70 - 130 12 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	115	70 - 130
o-Terphenyl	106	70 - 130

Lab Sample ID: 890-5458-9 MS Client Sample ID: SS09

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 64930 Prep Batch: 64907 Sample Sample Spike MS MS %Rec

			- p						70.100	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.6	U	1010	1208		mg/Kg		118	70 - 130	 _
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.6	U F1 *+	1010	1656	F1	mg/Kg		162	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	111		70 - 130

Client: Ensolum Job ID: 890-5458-1 SDG: 03C1558279 Project/Site: PLU BIG SINKS 3-25-30

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

Lab Sample ID: 890-5458-9 MSI		Client Sample ID: SS09
Matrix: Solid		Prep Type: Total/NA
Analysis Batch: 64930		Prep Batch: 64907
	 • "	 0/5

	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	<49.6	U	1010	1269		mg/Kg		124	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1 *+	1010	1662	F1	mg/Kg		162	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	155	S1+	70 _ 130
o-Terphenvl	109		70 ₋ 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64945/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64999

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/18/23 14:32	1

Lab Sample ID: LCS 880-64945/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble Analysis Batch: 64999**

ı		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
l	Chloride	250	246.7		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-64945/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 64999

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	247.2		mg/Kg		99	90 - 110	0	20	

Lab Sample ID: 890-5458-1 MS **Client Sample ID: SS01** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 64999

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	18400		5000	23390		ma/Ka		99	90 110	

Lab Sample ID: 890-5458-1 MSD **Client Sample ID: SS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64999

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	18400		5000	23400	-	mg/Kg		99	90 - 110	0	20

QC Sample Results

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30

SDG: 03C1558279

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5458-11 MS **Client Sample ID: SS011 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64999

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1430	F1	1250	2499	F1	mg/Kg		86	90 - 110	

Lab Sample ID: 890-5458-11 MSD Client Sample ID: SS011 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64999

Sample Sample Spike MSD MSD %Rec RPD RPD Limit Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1250 Chloride 1430 F1 2505 F1 mg/Kg 86 90 - 110 0

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

GC VOA

Prep Batch: 64991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	5035	
890-5458-8	SS08	Total/NA	Solid	5035	
890-5458-9	SS09	Total/NA	Solid	5035	
890-5458-10	SS010	Total/NA	Solid	5035	
890-5458-11	SS011	Total/NA	Solid	5035	
890-5458-12	SS012	Total/NA	Solid	5035	
MB 880-64991/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64991/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64991/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5458-1 MS	SS01	Total/NA	Solid	5035	
890-5458-1 MSD	SS01	Total/NA	Solid	5035	

Prep Batch: 64998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64998/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 65025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-2	SS02	Total/NA	Solid	8021B	65043
890-5458-3	SS03	Total/NA	Solid	8021B	65043
890-5458-4	SS04	Total/NA	Solid	8021B	65043
890-5458-5	SS05	Total/NA	Solid	8021B	65043
890-5458-6	SS06	Total/NA	Solid	8021B	65043
890-5458-7	SS07	Total/NA	Solid	8021B	65043
MB 880-64998/5-A	Method Blank	Total/NA	Solid	8021B	64998
MB 880-65043/5-A	Method Blank	Total/NA	Solid	8021B	65043
LCS 880-65043/1-A	Lab Control Sample	Total/NA	Solid	8021B	65043
LCSD 880-65043/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65043
890-5473-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	65043
890-5473-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	65043

Analysis Batch: 65026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8021B	64991
890-5458-8	SS08	Total/NA	Solid	8021B	64991
890-5458-9	SS09	Total/NA	Solid	8021B	64991
890-5458-10	SS010	Total/NA	Solid	8021B	64991
890-5458-11	SS011	Total/NA	Solid	8021B	64991
890-5458-12	SS012	Total/NA	Solid	8021B	64991
MB 880-64991/5-A	Method Blank	Total/NA	Solid	8021B	64991
LCS 880-64991/1-A	Lab Control Sample	Total/NA	Solid	8021B	64991
LCSD 880-64991/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64991
890-5458-1 MS	SS01	Total/NA	Solid	8021B	64991
890-5458-1 MSD	SS01	Total/NA	Solid	8021B	64991

Prep Batch: 65043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-2	SS02	Total/NA	Solid	5035	
890-5458-3	SS03	Total/NA	Solid	5035	
890-5458-4	SS04	Total/NA	Solid	5035	
890-5458-5	SS05	Total/NA	Solid	5035	

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 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

GC VOA (Continued)

Prep Batch: 65043 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-6	SS06	Total/NA	Solid	5035	
890-5458-7	SS07	Total/NA	Solid	5035	
MB 880-65043/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65043/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65043/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5473-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-5473-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 65198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	Total BTEX	
890-5458-2	SS02	Total/NA	Solid	Total BTEX	
890-5458-3	SS03	Total/NA	Solid	Total BTEX	
890-5458-4	SS04	Total/NA	Solid	Total BTEX	
890-5458-5	SS05	Total/NA	Solid	Total BTEX	
890-5458-6	SS06	Total/NA	Solid	Total BTEX	
890-5458-7	SS07	Total/NA	Solid	Total BTEX	
890-5458-8	SS08	Total/NA	Solid	Total BTEX	
890-5458-9	SS09	Total/NA	Solid	Total BTEX	
890-5458-10	SS010	Total/NA	Solid	Total BTEX	
890-5458-11	SS011	Total/NA	Solid	Total BTEX	
890-5458-12	SS012	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8015B NM	64905
890-5458-2	SS02	Total/NA	Solid	8015B NM	64905
890-5458-3	SS03	Total/NA	Solid	8015B NM	64905
890-5458-4	SS04	Total/NA	Solid	8015B NM	64905
890-5458-5	SS05	Total/NA	Solid	8015B NM	64905
890-5458-6	SS06	Total/NA	Solid	8015B NM	64905
890-5458-7	SS07	Total/NA	Solid	8015B NM	64905
890-5458-8	SS08	Total/NA	Solid	8015B NM	64905
MB 880-64905/1-A	Method Blank	Total/NA	Solid	8015B NM	64905
LCS 880-64905/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64905
LCSD 880-64905/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64905
880-34522-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	64905
880-34522-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64905

Prep Batch: 64905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8015NM Prep	
890-5458-2	SS02	Total/NA	Solid	8015NM Prep	
890-5458-3	SS03	Total/NA	Solid	8015NM Prep	
890-5458-4	SS04	Total/NA	Solid	8015NM Prep	
890-5458-5	SS05	Total/NA	Solid	8015NM Prep	
890-5458-6	SS06	Total/NA	Solid	8015NM Prep	
890-5458-7	SS07	Total/NA	Solid	8015NM Prep	
890-5458-8	SS08	Total/NA	Solid	8015NM Prep	

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 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

GC Semi VOA (Continued)

Prep Batch: 64905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64905/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64905/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64905/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34522-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34522-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 64907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-9	SS09	Total/NA	Solid	8015NM Prep	
890-5458-10	SS010	Total/NA	Solid	8015NM Prep	
890-5458-11	SS011	Total/NA	Solid	8015NM Prep	
890-5458-12	SS012	Total/NA	Solid	8015NM Prep	
MB 880-64907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5458-9 MS	SS09	Total/NA	Solid	8015NM Prep	
890-5458-9 MSD	SS09	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-9	SS09	Total/NA	Solid	8015B NM	64907
890-5458-10	SS010	Total/NA	Solid	8015B NM	64907
890-5458-11	SS011	Total/NA	Solid	8015B NM	64907
890-5458-12	SS012	Total/NA	Solid	8015B NM	64907
MB 880-64907/1-A	Method Blank	Total/NA	Solid	8015B NM	64907
LCS 880-64907/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64907
LCSD 880-64907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64907
890-5458-9 MS	SS09	Total/NA	Solid	8015B NM	64907
890-5458-9 MSD	SS09	Total/NA	Solid	8015B NM	64907

Analysis Batch: 64988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8015 NM	
890-5458-2	SS02	Total/NA	Solid	8015 NM	
890-5458-3	SS03	Total/NA	Solid	8015 NM	
890-5458-4	SS04	Total/NA	Solid	8015 NM	
890-5458-5	SS05	Total/NA	Solid	8015 NM	
890-5458-6	SS06	Total/NA	Solid	8015 NM	
890-5458-7	SS07	Total/NA	Solid	8015 NM	
890-5458-8	SS08	Total/NA	Solid	8015 NM	
890-5458-9	SS09	Total/NA	Solid	8015 NM	
890-5458-10	SS010	Total/NA	Solid	8015 NM	
890-5458-11	SS011	Total/NA	Solid	8015 NM	
890-5458-12	SS012	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Soluble	Solid	DI Leach	
890-5458-2	SS02	Soluble	Solid	DI Leach	

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 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

HPLC/IC (Continued)

Leach Batch: 64945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-3	SS03	Soluble	Solid	DI Leach	
890-5458-4	SS04	Soluble	Solid	DI Leach	
890-5458-5	SS05	Soluble	Solid	DI Leach	
890-5458-6	SS06	Soluble	Solid	DI Leach	
890-5458-7	SS07	Soluble	Solid	DI Leach	
890-5458-8	SS08	Soluble	Solid	DI Leach	
890-5458-9	SS09	Soluble	Solid	DI Leach	
890-5458-10	SS010	Soluble	Solid	DI Leach	
890-5458-11	SS011	Soluble	Solid	DI Leach	
890-5458-12	SS012	Soluble	Solid	DI Leach	
MB 880-64945/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64945/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64945/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5458-1 MS	SS01	Soluble	Solid	DI Leach	
890-5458-1 MSD	SS01	Soluble	Solid	DI Leach	
890-5458-11 MS	SS011	Soluble	Solid	DI Leach	
890-5458-11 MSD	SS011	Soluble	Solid	DI Leach	

Analysis Batch: 64999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Soluble	Solid	300.0	64945
890-5458-2	SS02	Soluble	Solid	300.0	64945
890-5458-3	SS03	Soluble	Solid	300.0	64945
890-5458-4	SS04	Soluble	Solid	300.0	64945
890-5458-5	SS05	Soluble	Solid	300.0	64945
890-5458-6	SS06	Soluble	Solid	300.0	64945
890-5458-7	SS07	Soluble	Solid	300.0	64945
890-5458-8	SS08	Soluble	Solid	300.0	64945
890-5458-9	SS09	Soluble	Solid	300.0	64945
890-5458-10	SS010	Soluble	Solid	300.0	64945
890-5458-11	SS011	Soluble	Solid	300.0	64945
890-5458-12	SS012	Soluble	Solid	300.0	64945
MB 880-64945/1-A	Method Blank	Soluble	Solid	300.0	64945
LCS 880-64945/2-A	Lab Control Sample	Soluble	Solid	300.0	64945
LCSD 880-64945/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64945
890-5458-1 MS	SS01	Soluble	Solid	300.0	64945
890-5458-1 MSD	SS01	Soluble	Solid	300.0	64945
890-5458-11 MS	SS011	Soluble	Solid	300.0	64945
890-5458-11 MSD	SS011	Soluble	Solid	300.0	64945

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Project/Site: PLU BIG SINKS 3-25-30

Client Sample ID: SS01

Client: Ensolum

SDG: 03C1558279

Lab Sample ID: 890-5458-1

Matrix: Solid

Date Collected: 10/13/23 12:05 Date Received: 10/13/23 15:53

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 64991 10/18/23 14:36 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 65026 10/19/23 12:31 MNR EET MID Total/NA Analysis Total BTEX 65198 10/19/23 12:31 SM **EET MID** 8015 NM Total/NA Analysis 1 64988 10/18/23 02:54 SM **EET MID** 8015NM Prep 10.08 g 64905 10/17/23 15:26 TKC EET MID Total/NA Prep 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 64848 10/18/23 02:54 SM **EET MID** Soluble 5 g 50 mL 64945 10/18/23 10:55 SMC Leach DI Leach FFT MID Soluble Analysis 300.0 20 50 mL 50 mL 64999 10/18/23 14:49 СН **EET MID**

Client Sample ID: SS02 Lab Sample ID: 890-5458-2

Date Collected: 10/13/23 12:10 **Matrix: Solid** Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/19/23 23:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 23:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 03:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 03:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	64999	10/18/23 15:06	CH	EET MID

Lab Sample ID: 890-5458-3 **Client Sample ID: SS03**

Date Collected: 10/13/23 10:45 **Matrix: Solid** Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/19/23 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 23:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 03:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 03:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	64999	10/18/23 15:12	CH	EET MID

Lab Sample ID: 890-5458-4 Client Sample ID: SS04

Date Collected: 10/13/23 10:50 **Matrix: Solid** Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 00:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 00:19	SM	EET MID

Client: Ensolum

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1 SDG: 03C1558279

Client Sample ID: SS04

Date Collected: 10/13/23 10:50 Date Received: 10/13/23 15:53 Lab Sample ID: 890-5458-4

Matrix: Solid

	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			64988	10/18/23 04:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 04:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64999	10/18/23 15:17	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-5458-5

Date Collected: 10/13/23 10:55

Matrix: Solid

Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 00:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 00:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 04:26	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	64999	10/18/23 15:23	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-5458-6

Date Collected: 10/13/23 11:00 Date Received: 10/13/23 15:53 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 01:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 01:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 04:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64999	10/18/23 15:40	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-5458-7

Date Collected: 10/13/23 11:05 Date Received: 10/13/23 15:53

_	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	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 01:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 01:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 05:09	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.95 g 1 uL	10 mL 1 uL	64905 64848	10/17/23 15:26 10/18/23 05:09	TKC SM	EET MID EET MID

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Matrix: Solid

Job ID: 890-5458-1

Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS07 Lab Sample ID: 890-5458-7 Date Collected: 10/13/23 11:05

Matrix: Solid

Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	64999	10/18/23 15:45	CH	EET MID

Client Sample ID: SS08 Lab Sample ID: 890-5458-8

Date Collected: 10/13/23 11:10 **Matrix: Solid**

Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 17:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 05:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 05:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	64999	10/18/23 15:51	CH	EET MID

Client Sample ID: SS09 Lab Sample ID: 890-5458-9

Date Collected: 10/13/23 12:15 **Matrix: Solid** Date Received: 10/13/23 15:53

	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	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 17:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 17:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 21:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	64907	10/17/23 16:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64930	10/18/23 21:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64999	10/18/23 15:57	CH	EET MID

Client Sample ID: SS010 Lab Sample ID: 890-5458-10

Date Collected: 10/13/23 12:20 Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 18:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 22:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64907	10/17/23 16:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64930	10/18/23 22:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64999	10/18/23 16:02	CH	EET MID

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum

Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS011 Lab Sample ID: 890-5458-11

Date Collected: 10/13/23 12:25 Matrix: Solid Date Received: 10/13/23 15:53

	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	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 18:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 22:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64907	10/17/23 16:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64930	10/18/23 22:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	64999	10/18/23 16:08	CH	EET MID

Client Sample ID: SS012 Lab Sample ID: 890-5458-12

Date Collected: 10/13/23 12:30 Matrix: Solid Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 18:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64907	10/17/23 16:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64930	10/18/23 22:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64999	10/18/23 16:25	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAP		T104704400-23-26	06-30-24
,	are included in this report, bu	it the laboratory is not certi	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1

SDG: 03C1558279

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5458-1	SS01	Solid	10/13/23 12:05	10/13/23 15:53	.05'
890-5458-2	SS02	Solid	10/13/23 12:10	10/13/23 15:53	.05'
890-5458-3	SS03	Solid	10/13/23 10:45	10/13/23 15:53	.05'
890-5458-4	SS04	Solid	10/13/23 10:50	10/13/23 15:53	.05'
890-5458-5	SS05	Solid	10/13/23 10:55	10/13/23 15:53	.05'
890-5458-6	SS06	Solid	10/13/23 11:00	10/13/23 15:53	.05'
890-5458-7	SS07	Solid	10/13/23 11:05	10/13/23 15:53	.05'
890-5458-8	SS08	Solid	10/13/23 11:10	10/13/23 15:53	.05'
890-5458-9	SS09	Solid	10/13/23 12:15	10/13/23 15:53	.05'
890-5458-10	SS010	Solid	10/13/23 12:20	10/13/23 15:53	.05'
890-5458-11	SS011	Solid	10/13/23 12:25	10/13/23 15:53	.05'
890-5458-12	SS012	Solid	10/13/23 12:30	10/13/23 15:53	.05'

Page

www.xenco.com

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Environment Testing

eurofins :

12-1814

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Chain of Custody

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

-ELPaso, 1X (915) 585-3445, Lubbock, 1X (806) 794-1296

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MRDGOCHS COCKSOUM CON Superfund Level IV My COTOCICLE + IV DI Water: H₂O JESISEE CADA Revised Date: 08/25/2020 Rev. 2020. HNO 3: HN MeOH: Me COST CEST NaOH: Na NaOH+Ascorbic Acid: SAPC Preservative Codes Sample Comments Date/Time 14013100 Zn Acetate+NaOH: Zn Reporting: Level || Level || PST/UST TRRP UST/PST | PRP | Brownfields | RRC | Na 25 20 3: NaSO 3 Other: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 4250 4: H2 H3PO 4: HP None: NO Cool: Cool HCL: HC Work Order Comments ADaPT Received by: (Signature) EDD State of Project: nitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Deliverables: Program: TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Reinquished by: (Signature) ANALYSIS REQUEST Grégenest Cortispad, NM, 86220 Somet Green PUSCHUM COM Energy 300 Date/Time 18 Beli11 00 Cont Pres. Code ***** Palameters Bill to: (if different) Comp Grab/ 9 Company Name: City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm Yes No 3122 National Parks Iwaddress Rush Depth **Turn Around** 0 32:25 0. eived by: (Signature) Email: .30 Routine 32.15514, -103, 96766 Due Date: Corrected Temperature: Sampled Wet Ice: Temperature Reading: Time Corlsbad, WIM, 88220 Correction Factor: Thermometer ID: PLUBIGSIABS 3-25-30 Somer welvang Date Sampled Yes No 749-854-0882 Circle Method(s) and Metal(s) to be analyzed Matrix Beli Ensolum Eurofins Xenco. A minimum charge of \$85.00 will be apply N/A Lemp Blank: Yes No N/A 200.8 / 6020: Yes No Relinquished by: (Signature) Ben Sample Identification Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT Fotal Containers: roject Number: Sampler's Name: Project Location: Project Manager Company Name: City, State ZIP: Project Name: Address: Phone: PO #:

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5458-1

SDG Number: 03C1558279

Login Number: 5458 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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 <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5458-1 SDG Number: 03C1558279

Login Number: 5458

List Source: Eurofins Midland
List Number: 2

List Creation: 10/17/23 10:23 AM

Creator: Rodriguez, Leticia

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	

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<6mm (1/4").

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory

https://www.emnrd.nm.gov/ocd/contact-us

Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

State of New Mexico

QUESTIONS

Action 415064

QUESTIONS

Santa Fe, NM 87505

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	415064
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2327751376	
Incident Name	NAPP2327751376 PLU BIG SINKS 3-25-30 @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	PLU BIG SINKS 3-25-30	
Date Release Discovered	09/20/2023	
Surface Owner	Federal	

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Valve Produced Water Released: 183 BBL Recovered: 45 BBL Lost: 138 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

QUESTIONS, Page 2

Action 415064

QUESTI	IONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 415064 Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a second The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report b adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 12/26/2024

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Phone: (505) 629-6116
Online Phone Directory
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.

State of New Mexico

QUESTIONS, Page 3

Action 415064

QUESTIONS (continued)

Santa Fe, NM 87505

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	OCD Imaging Records Lookup	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided	to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contaminal	tion associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in	milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	29600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	370
GRO+DRO (EPA SW-846 Method 8015M)	370
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comple which includes the anticipated timelines for beginning and completing the remediation.	eted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	05/17/2024
On what date will (or did) the final sampling or liner inspection occur	07/16/2024
On what date will (or was) the remediation complete(d)	07/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	33575
What is the estimated volume (in cubic yards) that will be reclaimed	4974
What is the estimated surface area (in square feet) that will be remediated	34575
What is the estimated volume (in cubic yards) that will be remediated	5122
These estimated dates and measurements are recognized to be the best guess or calculation at	t the time of submission and may (be) change(d) over time as more remediation efforts are completed.

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 415064

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415064
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

appropriate district office no later than 90 days after the release discovery date.
/ reduce contaminants:
Yes
OWL LANDFILL JAL [fJEG1635837366]
Not answered.
No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 12/26/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

Action 415064

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415064
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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Action 415064

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415064
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	400299
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/15/2024
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	16000

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	34575	
What was the total volume (cubic yards) remediated	5122	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	33575	
What was the total volume (in cubic yards) reclaimed	4974	
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the September 20, 2023, release of produced water. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on laboratory analytical results, no further remediation is required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Areas pending reclamation will be completed during pad abandonment or major facility reconstruction.	

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 (in .pdf format) 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.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 12/26/2024

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Action 415064

QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 415064

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/27/2024