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Closure Report

Amethyst State Com #1

Eddy County, New Mexico

Incident # **NAPP2219263776**

Prepared For:

Matador Resources

5347 N. 26th Street 2nd Floor

Artesia, New Mexico 88210

Prepared By:

Talon/LPE

408 W. Texas Avenue

Artesia, New Mexico 88210

April 18, 2024

**NMOCD**

506 W. Texas Ave
Artesia, New Mexico 88210

NMSLO

310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Subject: **Closure Report**
Amethyst State Com #1
Eddy County, New Mexico
Incident # NAPP2219263776

To Whom It May Concern,

Matador Resources contracted Talon/LPE (Talon) to complete remediation and closure activities at the above referenced location. The incident description, soil sampling results, remedial actions, and closure request are presented herein.

Site Information

The Amethyst State Com #1 is located approximately 20 miles west of Eunice, New Mexico. The legal location for this release is Unit Letter E, Section 32, Township 24 South, and Range 29 East in Eddy County, New Mexico. The latitude and longitude for the site is 32.1757887, -104.0119467. Site maps are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soils in the area are made up of Pajarito Dune land complex, with 0 to 3 percent slopes. The referenced soil data is presented in [Appendix III](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of Ogallala Formation, lower Pliocene to Middle Miocene in age, and comprised of alluvial deposits. Drainage courses in this area are typically well drained. Further site characterization data is summarized in the following table.

Site Characterization

What is the shallowest depth to groundwater beneath the area affected by the release?	Between 26 and 50 (ft bgs)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	No
Distance from a flowing watercourse or any other significant watercourse.	Between 500 and 1000
Distance from any lakebed, sinkhole, or playa lake.	Between 1 and 5 mile
Distance from an occupied permanent residence, school, hospital, institution, or church.	Between 1 and 5 mile
Distance from a spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes.	Between 1/2 and 1 mile
Distance from any fresh water well or spring.	Between 1/2 and 1 mile
Distance from incorporated municipal boundaries or a defined municipal fresh water field.	Greater than 5 miles
Distance from a wetland.	Between 1/2 and 1 mile
Distance from a subsurface mine.	Greater than 5 miles
Distance from (non-karst) unstable area.	Between 1 and 5 mile
Categorize the risk of this well/site being in a karst geology.	Medium
Distance from a 100 year floodplain.	Between 500 and 1000
Did the release impact areas not on an exploration, development, production, or storage site?	Yes

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 39 feet below ground surface (bgs). On July 6, 2023, Talon drilled a temporary well (C-04748 POD1) to a depth of 55 feet bgs approximately 0.2 miles from location on the northern edge of Garrett State Com #221H. More specifically the latitude and longitude for the temporary well are 32.1805289 and -104.0132909. A wait period of 72 hours was observed, and groundwater was encountered at 49 feet bgs. Based upon the presented site characterization, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater between ≤ 50 feet bgs, Table I, NMOCD Rule 19.15.29.12 NMAC.

Table I - Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Total Chlorides***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

*Or other test methods approved by the division,

**Numerical limits or natural background level, whichever is greater.

***This applies to releases of produced water or other fluids, which may contain chloride.

[19.15.29.12 NMAC - N, 8/14/2018]

Incident Description

On July 09, 2022, severe weather and a lightning strike to two (2) tanks, resulted in a fire and caused approximately 50 bbl. of produced water to be released inside the containment. A vac truck was dispatched and recovered approximately 50 bbl. Further inspection of the site revealed that one (1) of the tanks exploded causing it to go airborne taking with it the residual fluid. The tank was later discovered in the adjacent pasture. The release was reported to the NMSLO and NMOCD and was assigned incident # NAPP2219263776. Site maps of the release are presented in [Appendix I](#).

Site Assessment Activities

On July 12, 2022, Talon personnel mobilized to the site to conduct an initial site assessment of the location. The entire impacted area was mapped utilizing a handheld Trimble GEO XH 6000 device, photographed, and soil sampling commenced on the exterior sides of the containment utilizing a hand auger. On August 17, 2022, a trench was advanced horizontally across the impacted area to a depth 18 feet bgs in order to determine the vertical extent of impact. Samples were taken and transported with the chain of custody to Cardinal Laboratories for analysis of Total Chlorides (SM4500Cl-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

Results from the initial sampling event, complete laboratory report, and site assessment sample locations on Figure 2 are attached for reference in [Appendix II](#), [Appendix VI](#), and [Appendix I](#), respectively.

Remediation Activities

On August 19, 2022, Talon returned to the Amethyst State Com #001 Battery in order to commence with remediation of the site. Talon personnel observed that general site clean-up efforts had been completed by Matador. The containment, tanks, damaged infrastructure as well as approximately one (1) foot bgs of impacted soil had been removed and disposed of at an NMOCD approved landfill facility. Talon personnel guided the remaining clean-up efforts with field titration data.

Analytical results from the remediation event, the complete laboratory report, and confirmation sample locations on Figure 3 are attached for reference in [Appendix II](#), [Appendix VI](#), and [Appendix I](#), respectively.

Following internal client review of the release and remediation activities, it was determined there were insufficient confirmation samples collected. A sampling notification was sent to the NMOCD on August 17, 2022.

On December 19, 2022, NMOCD rejected the closure report and stated, "The depth to groundwater has not been adequately determined."

On March 23, 2023, Talon personnel mobilized to the site to collect samples using Geoprobe direct push technology. All soil samples were collected, contained in laboratory provided glassware, and transported to Cardinal Laboratories with the chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (EPA Method 8015M), and Volatile Organics (BTEX, EPA Method 8021B).

Results from the initial sampling event, complete laboratory report, and site assessment sample locations on Figure 4 are attached for reference in [Appendix II](#), [Appendix VI](#), and [Appendix I](#), respectively.

On September 8, 2023, Talon personnel returned to location to remove impacted soils located around removed tank battery. A backhoe was used to excavate 9 feet bgs of contaminated soils and confirmation samples were collected. The samples were transported with the chain of custody to Envirotech Laboratories, for analysis of Total Chlorides (EPA 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

On September 18, 2023, Talon personnel returned to location to remove additional impacted soils located around sample locations C-3 and C-4. Composite samples were taken and were transported with the chain of custody to Envirotech Laboratories, for analysis of Total Chlorides (EPA 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

On March 15, 2024, NMOCD rejected the closure report and stated "Closure denied. Based off the information on the scaled site map and laboratory results summary table, the chloride contamination located at S-14A was not addressed during remediation activities."

On April 1, 2024, Talon personnel returned to location to remove impacted soils located around removed tank battery. A backhoe was used to excavate 6 feet bgs of contaminated soils and confirmation samples were collected. Background samples were also collected at this time to verify horizontal delineation was achieved. The samples were transported with the chain of custody to Envirotech Laboratories, for analysis of Total Chlorides (EPA 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

Results from the initial sampling event, complete laboratory report, and site assessment sample locations on Figure 5 are attached for reference in [Appendix II](#), [Appendix VI](#), and [Appendix I](#), respectively.

Final confirmation samples were collected on the above-mentioned dates to confirm that NMOCD closure criteria had been met from previous remediation activities, the results of which can be found in [Appendix II](#). Confirmation sample locations and excavation dimensions can be found in [Appendix I](#).

Remedial Action Summary

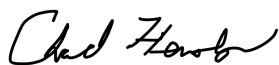
- Pursuant to NMOCD guidance, confirmation soil samples were collected at 200 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to ensure all other areas outside of deferment had reached NMOCD closure criteria.
- The excavated area was backfilled with new, nonimpacted caliche, machine compacted, and contoured to match the surrounding location.
- All contaminated soil, approximately 2389 cubic yards, was transported to Lea Landfill, furthermore the liquid state contamination from the Hydrovac was disposed of at R360, also a NMOCD approved solid waste disposal facility.
- Photographic documentation is provided in [Appendix IV](#).

Closure

Based on the site characterization data, completed remedial actions, and analytical results of confirmation samples, on behalf of Matador Resources, we respectfully request that no further actions be required and that closure of this incident be granted.

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

Respectfully submitted,
Talon/LPE



Chad Hensley
Senior Project Manager

Attachments:

Appendix I	Site Maps
Appendix II	Analytical Data Table
Appendix III	Site Characterization
Appendix IV	Photographic Documentation
Appendix V	Correspondence
Appendix VI	Laboratory Analytical Data



APPENDIX I

Site Maps

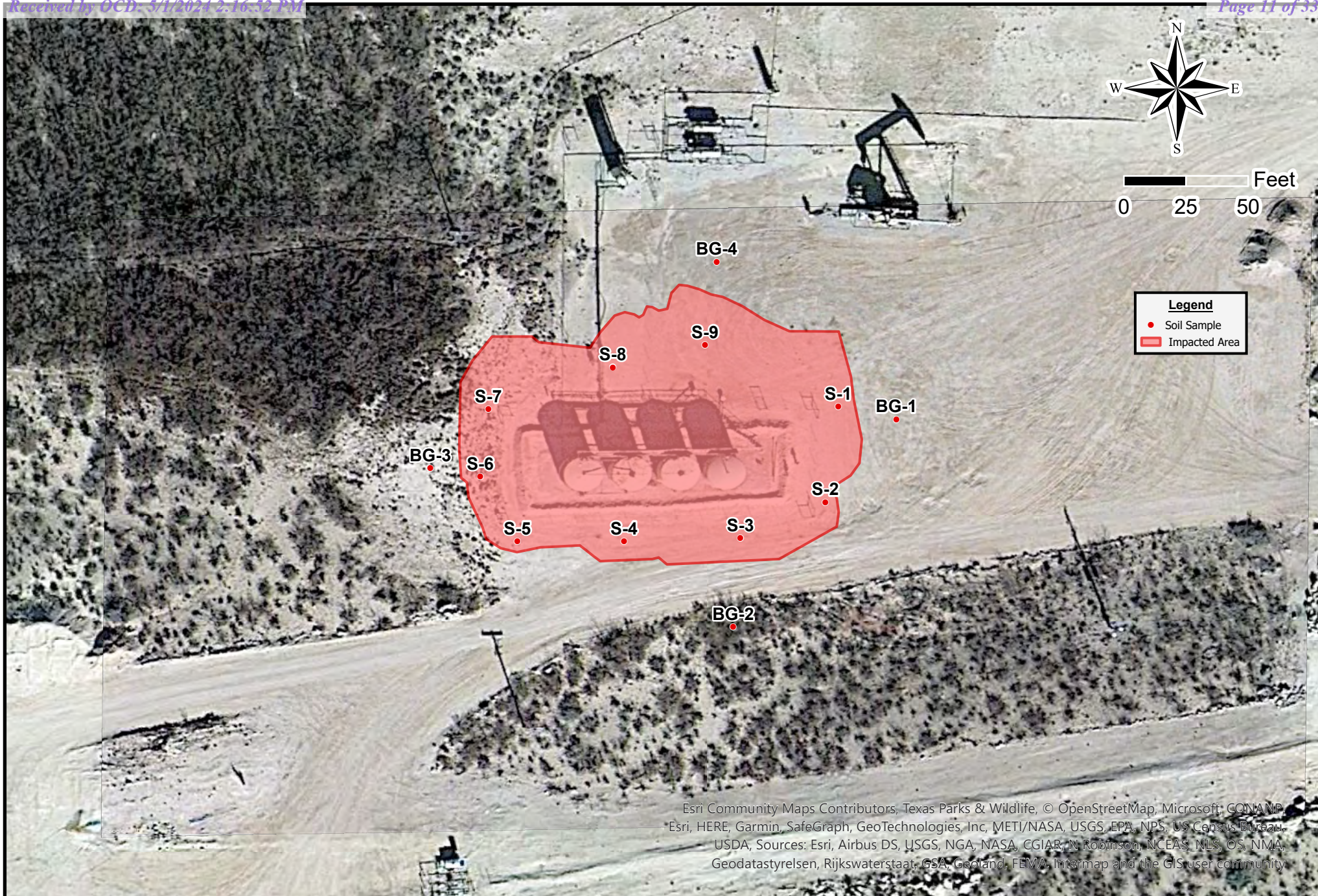


Drafted: 9/20/2023

1 in = 25 ft

Drafted By: IJR

Matador Resources
Amethyst State Com #001
Eddy County, NM
Figure 1 - Site Map

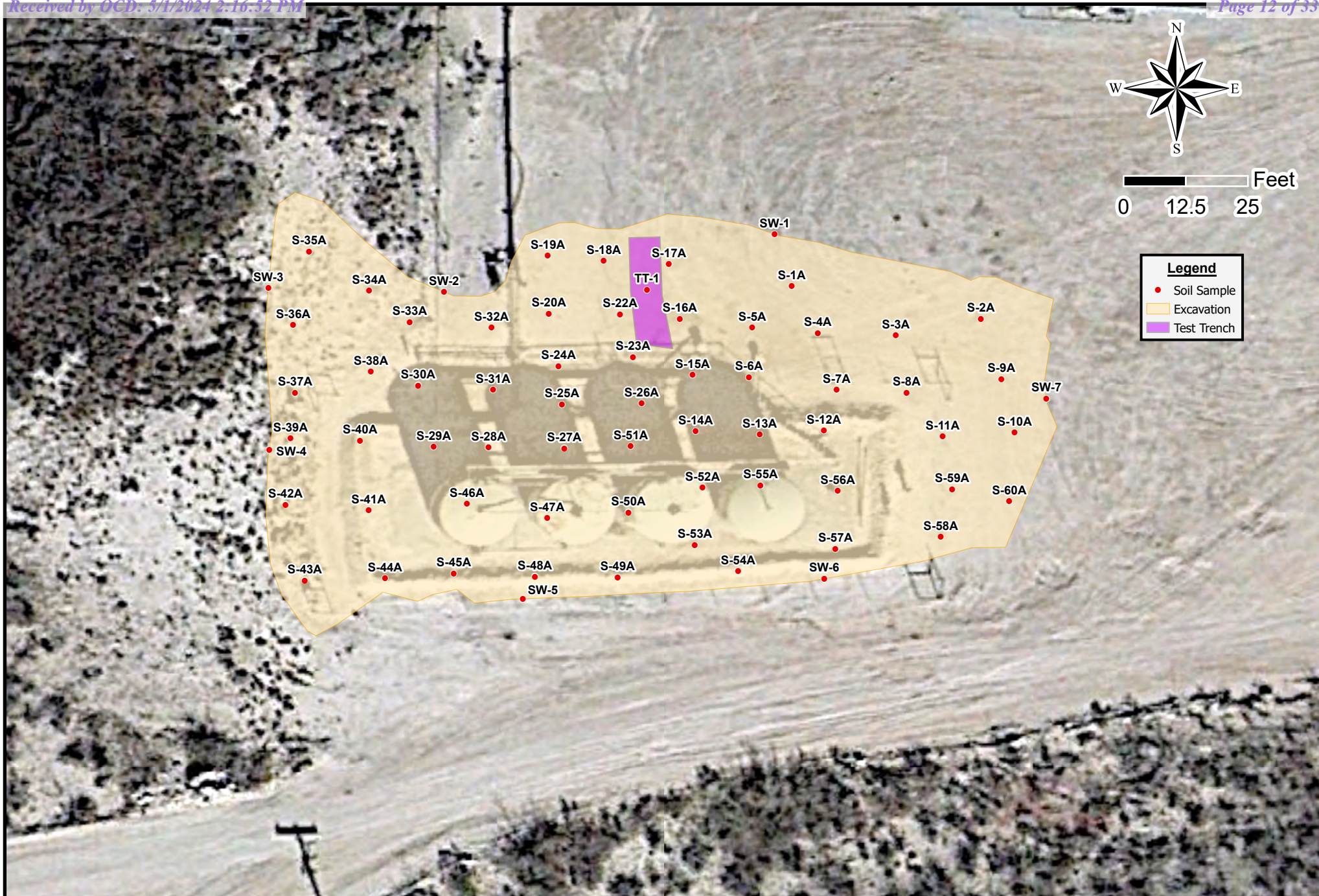


Drafted: 9/23/2022

1 in = 50 ft

Drafted By: IJR

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Eddy County, NM
Figure 2 - Site Assessment Map



Drafted: 9/28/2022
1 in = 25 ft
Drafted By: JAI

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Amethyst State Com #001
Eddy County, NM
Figure 3 - Confirmation Map

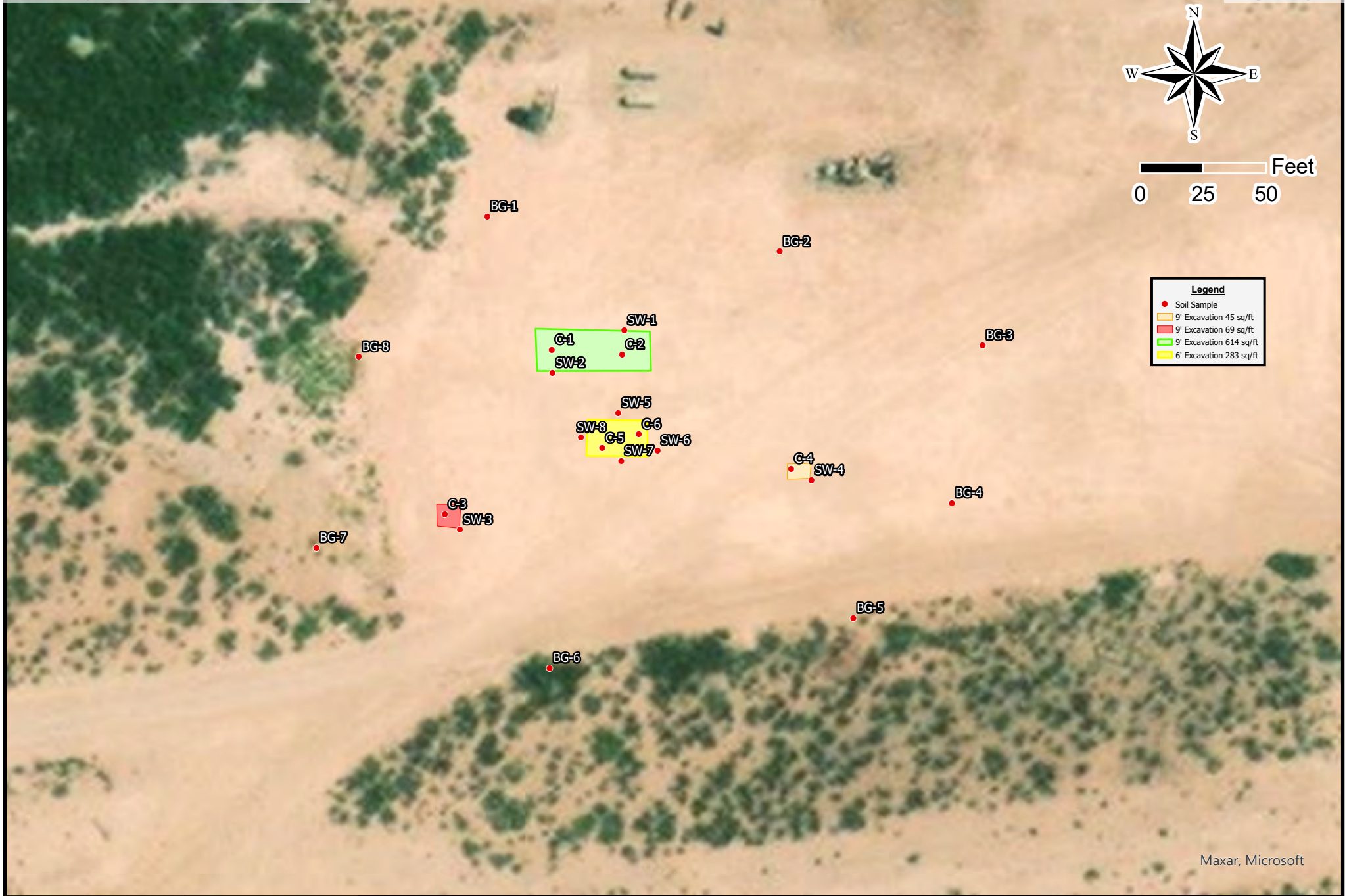


Drafted: 4/18/2024

1 in = 25 ft

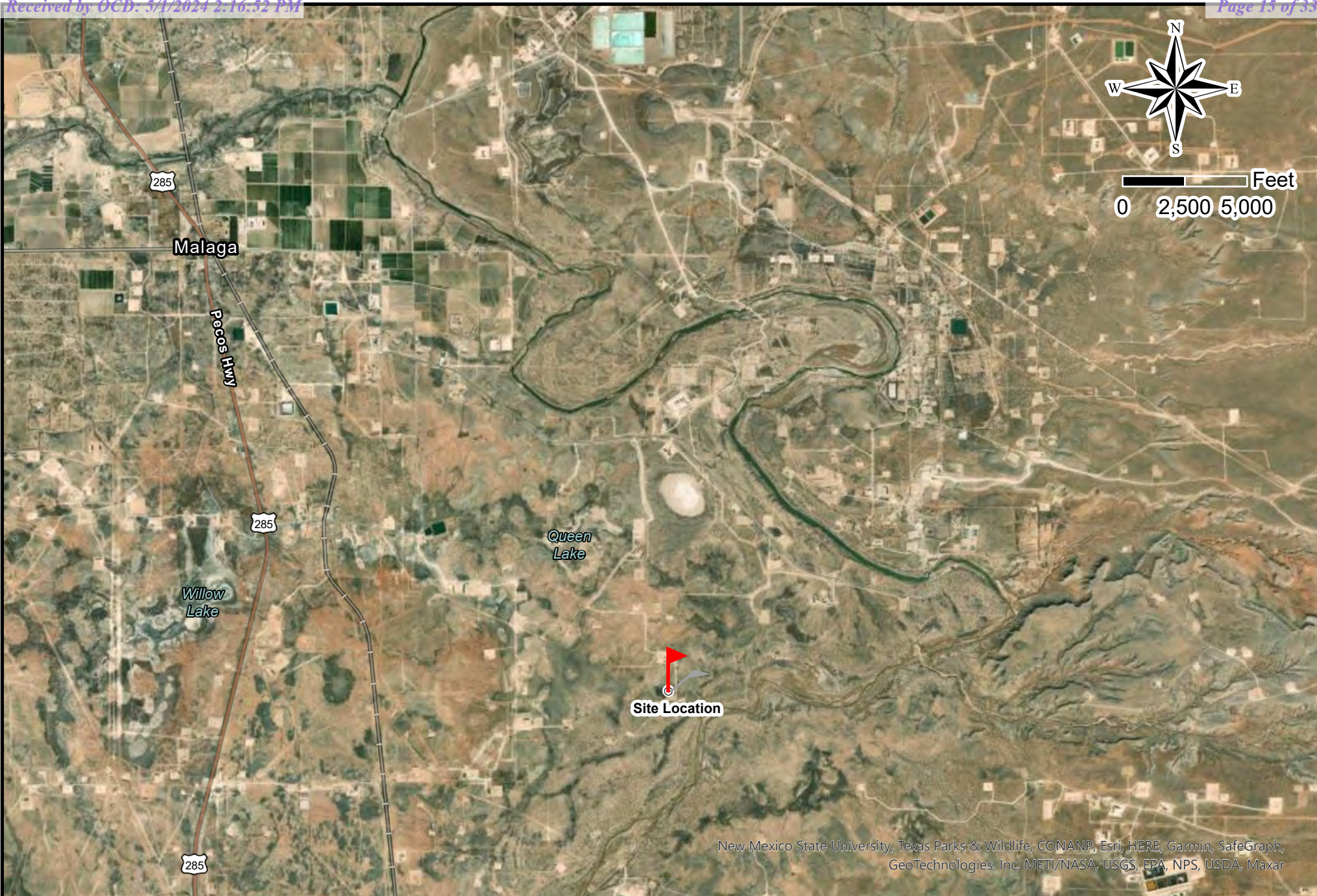
Drafted By: IJR

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Figure 4 - Geoprobe Sampling



Drafted: 4/12/2024
1 in = 50 ft
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Amethyst State Com #001
Eddy County, NM
Figure 5 - Excavation Map

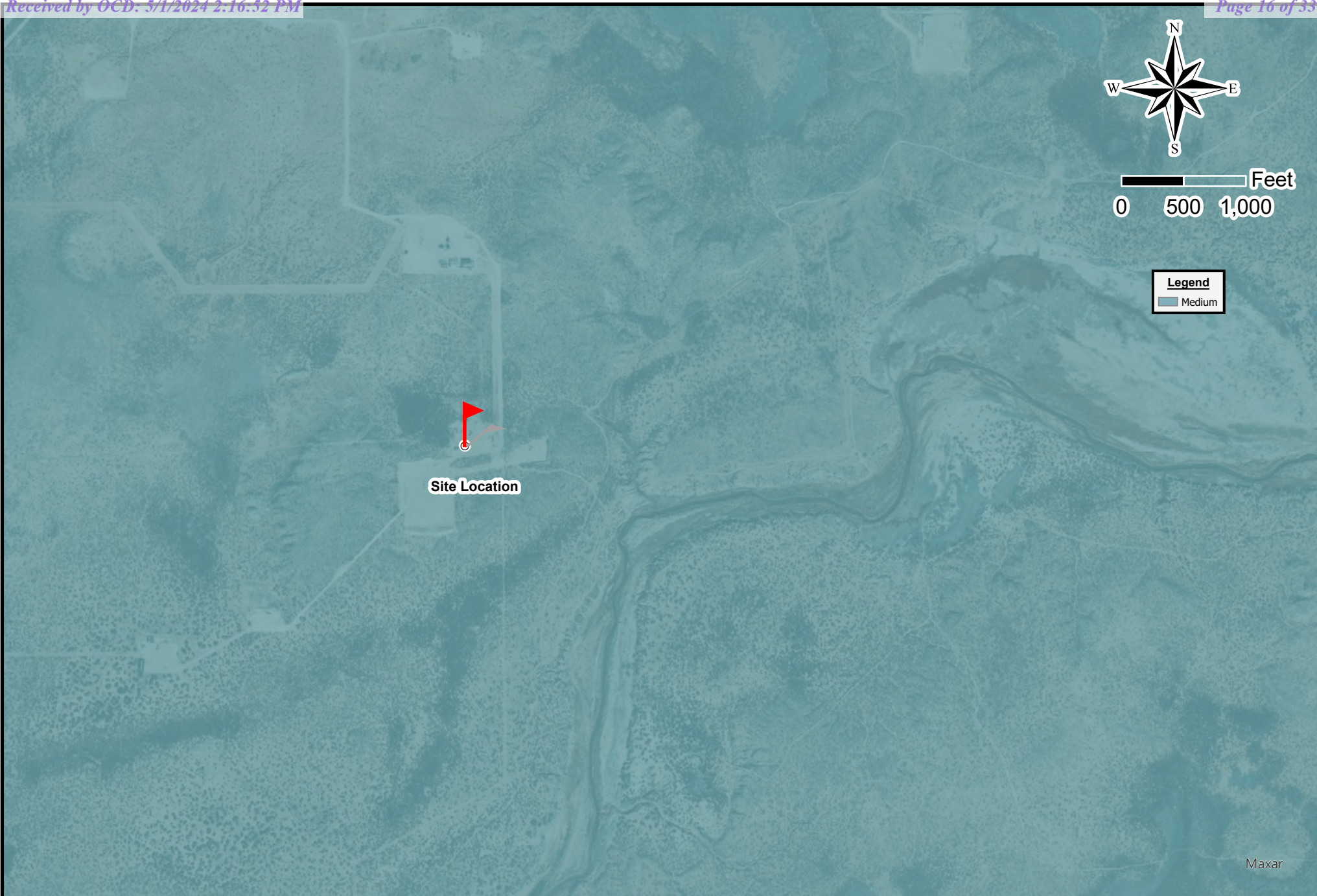


New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, Maxar



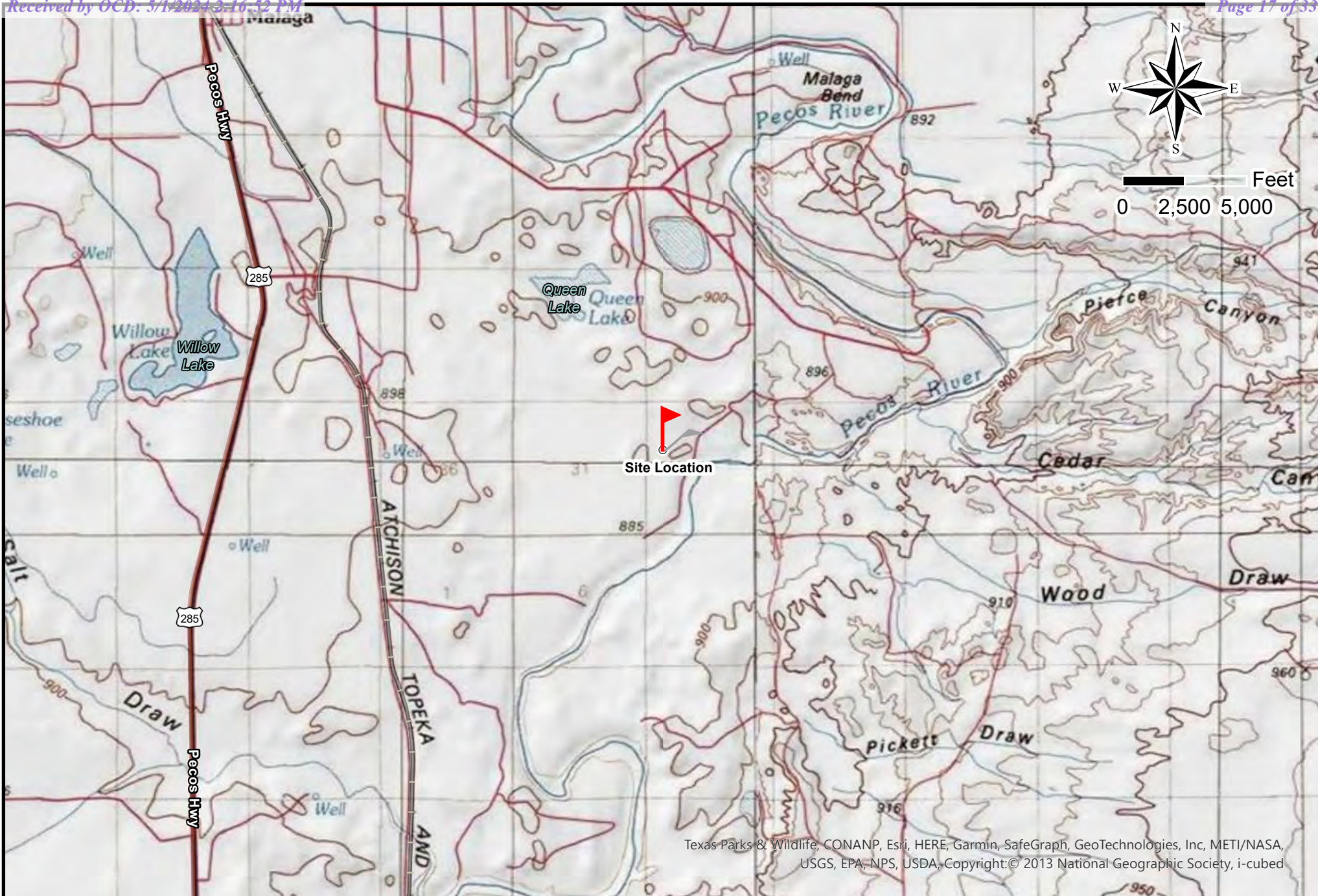
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Eddy County, NM
Figure 6 - Location Map



Drafted: 9/23/2022
1 in = 1,000 ft
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Amethyst State Com #001
Eddy County, NM
Figure 7 - Karst Map



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Drafted: 9/20/2023

$$1 \text{ in} = 5,000 \text{ ft}$$

Drafted By: IJR

Matador Resources
Amethyst State Com #001
Eddy County, NM
Figure 8 - Topographic Map



APPENDIX II

Analytical Data Table

Amethyst State Com #1 Site Assessment Samples									
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	7/12/2022	0-1'	ND	ND	ND	514.0	244.0	758.0	48.0
	7/12/2022	2'	ND	ND	ND	ND	ND	ND	128.0
	7/12/2022	3'	ND	ND	ND	31.5	13.0	44.5	80.0
	7/12/2022	4'	ND	ND	ND	ND	ND	ND	64.0
S-2	7/12/2022	0-1'	ND	ND	ND	422.0	116.0	538.0	560.0
	7/12/2022	2'	ND	ND	ND	31.4	ND	31.4	528.0
	7/12/2022	3' R	ND	ND	ND	ND	ND	-	432.0
S-3	7/12/2022	0-1'	ND	ND	ND	167.0	44.0	211.0	624.0
	7/12/2022	2'	ND	ND	ND	ND	ND	ND	864.0
	7/12/2022	3' R	ND	ND	ND	ND	ND	ND	720.0
S-4	7/13/2022	0-1'	ND	ND	ND	ND	ND	ND	576.0
	7/13/2022	2'	ND	ND	ND	40.5	10.1	50.6	1170.0
	7/13/2022	3' R	ND	ND	ND	41.6	ND	41.6	1250.0
S-5	7/13/2022	0-1'	ND	ND	ND	171.0	55.4	226.4	752.0
	7/13/2022	2'	ND	ND	ND	124.0	55.7	179.7	1410.0
	7/13/2022	3' R	ND	ND	ND	ND	ND	ND	1380.0
S-6	7/13/2022	0-1'	ND	ND	ND	ND	ND	ND	656.0
	7/13/2022	2'	ND	ND	ND	ND	ND	ND	1460.0
	7/13/2022	3'	ND	ND	ND	ND	ND	ND	1420.0
	7/13/2022	4'	ND	ND	ND	ND	ND	ND	1550.0
S-7	7/13/2022	0-1'	ND	ND	ND	ND	ND	ND	640.0
	7/13/2022	2'	ND	ND	ND	ND	ND	ND	1360.0
	7/13/2022	3'	ND	ND	ND	ND	ND	ND	1740.0
	7/13/2022	4'	ND	ND	ND	ND	ND	ND	1340.0
S-8	7/13/2022	0-1'	ND	ND	ND	13.1	ND	13.1	416.0
	7/13/2022	2'	ND	ND	ND	ND	ND	ND	256.0
	7/13/2022	3'	ND	ND	ND	ND	ND	ND	400.0
	7/13/2022	4'	ND	ND	ND	ND	ND	ND	592.0

S-9	7/13/2022	0-1'	ND	ND	ND	ND	ND	ND	1090.0
	7/13/2022	2'	ND	ND	ND	ND	ND	ND	640.0
	7/13/2022	3'	ND	ND	ND	ND	ND	ND	308.0
	7/13/2022	4'	ND	ND	ND	ND	ND	ND	992.0
BG-1	7/12/2022	0'	ND	ND	ND	ND	ND	ND	416.0
BG-2	7/12/2022	0'	ND	ND	ND	ND	ND	ND	64.0
BG-3	7/13/2022	0'	ND	ND	ND	ND	ND	ND	64.0
BG-4	7/13/2022	0'	ND	ND	ND	ND	ND	ND	16.0

NOTES:

BGS Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
MRO Motor oil range organics
S Sample
TT Test Trench
R Refusal
ND Analyte Not Detected
BG Background Samples

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Amethyst State Com 1 Confirmation Samples									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
TT-1	8/17/2022	6'	ND	ND	22.5	ND	ND	22.5	585
	8/17/2022	8'	NT	NT	NT	NT	NT	ND	763
	8/17/2022	10'	NT	NT	NT	NT	NT	ND	1150
	8/17/2022	12'	NT	NT	NT	NT	NT	ND	1210
	8/17/2022	14'	NT	NT	NT	NT	NT	ND	1590
	8/17/2022	16'	NT	NT	NT	NT	NT	ND	784
	8/17/2022	18'	ND	ND	30.8	ND	ND	30.8	524
S-1A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	32
S-2A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	48
S-3A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	48
S-4A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	32
S-5A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	32
S-6A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	32
S-7A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	32
S-8A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	96
S-9A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	128
S-10A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	80
S-11A	8/19/2022	1'	ND	ND	ND	24.8	ND	24.8	128
S-12A	8/19/2022	1'	ND	ND	ND	ND	ND	ND	48
S-13A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	432
S-14A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	1040
S-15A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	480
S-16A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	880
S-17A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	1020
S-18A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	752
S-19A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	816
S-20A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	1060
S-21A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	ND
S-22A	8/19/2022	4'	ND	ND	ND	ND	ND	ND	ND

S-23A	9/7/2022	4'	ND	ND	ND	ND	ND	ND	16
S-24A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	576
S-25A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	480
S-26A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	560
S-27A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	592
S-28A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	576
S-29A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	576
S-30A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	576
S-31A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	592
S-32A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	752
S-32B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	32
S-33A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	480
S-34A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	496
S-35A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	576
S-36A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	496
S-37A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	416
S-38A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	416
S-39A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	512
S-40A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	576
S-41A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	608
S-42A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	480
S-43A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	624
S-44A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	96
S-45A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	48
S-46A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	1960
S-46B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	ND
S-47A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	2000
S-47B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	32
S-48A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	3160
S-48B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	ND
S-49A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	3280
S-49B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	32
S-50A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	32
S-51A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	800

S-52	8/24/2022	4'	ND	ND	ND	ND	ND	ND	768
S-52B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	32
S-53	8/24/2022	4'	ND	ND	ND	ND	ND	ND	816
S-53B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	32
S-54A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	704
S-54B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	32
S-55A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	848
S-55B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	16
S-56A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	720
S-56B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	ND
S-57A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	656
S-58A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	720
S-58B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	ND
S-59A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	640
S-60A	8/24/2022	4'	ND	ND	ND	ND	ND	ND	720
S-60B	9/8/2022	4.5'	ND	ND	ND	ND	ND	ND	ND
SW-1	8/19/2022	1'	ND	ND	ND	ND	ND	ND	ND
SW-2	8/19/2022	1'	ND	ND	ND	ND	ND	ND	ND
SW-3	9/2/2022	3.5'	ND	ND	ND	ND	ND	ND	16
SW-4	9/2/2022	3.5'	ND	ND	ND	ND	ND	ND	ND
SW-5	8/29/2022	4'	ND	ND	ND	18.8	ND	18.8	276
SW-6	8/29/2022	4'	ND	ND	ND	25.7	ND	25.7	130
SW-7	8/29/2022	4'	ND	ND	ND	ND	ND	ND	343

NOTES:

- BGS** Below ground surface
- mg/kg** Milligrams per kilogram
- TPH** Total Petroleum Hydrocarbons
- GRO** Gasoline range organics
- DRO** Diesel range organics
- MRO** Motor oil range organics
- S** Sample
- C** Confirmation Sample
- SW** Sidewall Sample
- TT** Test Trench
- R** Refusal
- ND** Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table
1 Closure Criteria

Amethyst State Com #1 Geoprobe Sampling Event									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-14A	3/23/23	4'	ND	ND	ND	ND	ND	ND	1020
	3/23/23	5'	ND	ND	ND	ND	ND	ND	800
S-16A	3/23/23	4'	ND	ND	ND	55.9	19.3	75.2	1600
	3/23/23	5'	ND	ND	ND	ND	ND	ND	880
S-17A	3/23/23	4'	ND	ND	ND	ND	ND	ND	656
	3/23/23	5'	ND	ND	ND	ND	ND	ND	1150
S-18A	3/23/23	4'	ND	ND	ND	ND	ND	ND	608
	3/23/23	5'	ND	ND	ND	ND	ND	ND	560
S-19A	3/23/23	4'	ND	ND	ND	ND	ND	ND	880
	3/23/23	5'	ND	ND	ND	ND	ND	ND	1040
S-20A	3/23/23	4'	ND	ND	ND	ND	ND	ND	1040
	3/23/23	5'	ND	ND	ND	ND	ND	ND	976
S-21A	3/23/23	4'	ND	ND	ND	ND	ND	ND	816
	3/23/23	5'	ND	ND	ND	ND	ND	ND	896
S-22A	3/23/23	4'	ND	ND	ND	ND	ND	ND	400
	3/23/23	5'	ND	ND	ND	ND	ND	ND	496
S-43A	3/23/23	4'	ND	ND	ND	ND	ND	ND	160
	3/23/23	5'	ND	ND	ND	ND	ND	ND	880
S-51A	3/23/23	4'	ND	ND	ND	ND	ND	ND	400
	3/23/23	5'	ND	ND	ND	ND	ND	ND	176
S-57A	3/23/23	4'	ND	ND	ND	ND	ND	ND	144
	3/23/23	5'	ND	ND	ND	ND	ND	ND	304
S-59A	3/23/23	4'	ND	ND	ND	ND	ND	ND	368
	3/23/23	5'	ND	ND	ND	ND	ND	ND	752

NOTES:

- BGS** Below ground surface
- mg/kg** Milligrams per kilogram
- TPH** Total Petroleum Hydrocarbons
- GRO** Gasoline range organics
- DRO** Diesel range organics
- MRO** Motor oil range organics
- S** Sample
- ND** Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table
1 Closure Criteria

Amethyst State Com 001 Confirmation Corrective Action									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
C-1	9/8/23	9'	ND	ND	ND	ND	ND	ND	374
C-2	9/8/23	9'	ND	ND	ND	ND	ND	ND	337
C-3	9/8/23	9'	ND	ND	ND	28.8	87.3	116.1	449
	9/18/23	9'	ND	ND	ND	ND	ND	ND	165
C-4	9/8/23	9'	ND	ND	ND	ND	ND	ND	604
	9/18/23	9'	ND	ND	ND	ND	ND	ND	172
C-5	4/1/24	6'	ND	ND	ND	ND	ND	ND	175
C-6	4/1/24	6'	ND	ND	ND	ND	ND	ND	177
SW-1	9/8/23	0-9'	ND	ND	ND	ND	ND	ND	119
SW-2	9/8/23	0-9'	ND	ND	ND	ND	ND	ND	121
SW-3	9/8/23	0-9'	ND	ND	ND	ND	ND	ND	ND
SW-4	9/8/23	0-9'	ND	ND	ND	ND	ND	ND	ND
SW-5	4/1/24	0-9'	ND	ND	ND	ND	ND	ND	160
SW-6	4/1/24	0-9'	ND	ND	ND	ND	ND	ND	174
SW-7	4/1/24	0-9'	ND	ND	ND	ND	ND	ND	152
SW-8	4/1/24	0-9'	ND	ND	ND	ND	ND	ND	161
BG-1	4/1/24	Surface	ND	ND	ND	ND	ND	ND	172
BG-2	4/1/24	Surface	ND	ND	ND	ND	ND	ND	174
BG-3	4/1/24	Surface	ND	ND	ND	ND	ND	ND	163
BG-4	4/1/24	Surface	ND	ND	ND	ND	ND	ND	182
BG-5	4/1/24	Surface	ND	ND	ND	ND	ND	ND	181
BG-6	4/1/24	Surface	ND	ND	ND	ND	ND	ND	141
BG-7	4/1/24	Surface	ND	ND	ND	ND	ND	ND	186
BG-8	4/1/24	Surface	ND	ND	ND	ND	ND	ND	180

NOTES:

- BGS** Below ground surface
- mg/kg** Milligrams per kilogram
- TPH** Total Petroleum Hydrocarbons
- GRO** Gasoline range organics
- DRO** Diesel range organics
- MRO** Motor oil range organics
- C** Confirmation Sample
- SW** Sidewall Sample
- ND** Analyte Not Detected
- BG** Background Sample

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria



APPENDIX III

Site Characterization

Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

4/12/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PD	Pajarito-Dune land complex, 0 to 3 percent slopes	2.3	96.8%
UG	Upton gravelly loam, 0 to 9 percent slopes	0.1	3.2%
Totals for Area of Interest		2.4	100.0%



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Eddy Area, New Mexico



July 12, 2022

Eddy Area, New Mexico

DP—Dev-Pima complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w48

Elevation: 3,200 to 4,600 feet

Mean annual precipitation: 10 to 16 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 195 to 217 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Dev and similar soils: 55 percent

Pima and similar soils: 30 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dev

Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Mixed alluvium

Typical profile

H1 - 0 to 15 inches: very gravelly loam

H2 - 15 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: FrequentNone

Frequency of ponding: None

Calcium carbonate, maximum content: 70 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: A

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

Custom Soil Resource Report

Description of Pima**Setting**

Landform: Flood plains, alluvial flats, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Parent material: Alluvium

Typical profile

H1 - 0 to 3 inches: silt loam

H2 - 3 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: RareNone

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

Minor Components**Unnamed soils**

Percent of map unit: 15 percent

Hydric soil rating: No

PD—Pajarito-Dune land complex, 0 to 3 percent slopes**Map Unit Setting**

National map unit symbol: 1w55

Elevation: 3,000 to 5,000 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 46 percent

Dune land: 45 percent

Minor components: 9 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: fine sandy loam

H2 - 9 to 36 inches: fine sandy loam

H3 - 36 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dune fields

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Talf

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam

H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

Largo

Percent of map unit: 4 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

UG—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w64

Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 15 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent

Minor components: 4 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton

Setting

Landform: Ridges, fans

Landform position (three-dimensional): Side slope, rise

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam

H2 - 9 to 13 inches: gravelly loam

H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Custom Soil Resource Report

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Minor Components**Atoka**

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Reagan

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Upton

Percent of map unit: 1 percent

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

W—Water**Map Unit Composition**

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.





























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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD	Q Q Q									Water					
POD Number	Code	Sub-basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
C_00856		CUB	ED	1	2	4	30	24S	29E	592538	3561644* 	1432	380				
C_00862		CUB	ED	1	2	4	30	24S	29E	592538	3561644* 	1432	155				
C_00857		CUB	ED	3	1	4	30	24S	29E	592135	3561440* 	1490	306				
C_01880		C	ED	3	3	2	06	25S	29E	592161	3558605* 	2004	85			40	45
C_04493 POD1		CUB	ED	4	4	4	06	25S	29E	592760	3557765 	2611	57			39	18
C_04324 POD8		CUB	ED	4	4	4	05	25S	29E	594442	3557807 	2850	69			65	4
C_04324 POD12		CUB	ED	2	2	2	08	25S	29E	594476	3557627 	3027	65			60	5
C_04324 POD6		CUB	ED	1	1	1	09	25S	29E	594538	3557657 	3027	62			61	1
C_04324 POD9		CUB	ED	1	1	1	09	25S	29E	594590	3557676 	3034	72			62	10
C_04324 POD11		CUB	ED	1	1	1	09	25S	29E	594576	3557619 	3079	61			61	0
C_04324 POD10		CUB	ED	1	1	1	09	25S	29E	594563	3557603 	3086	65			60	5
C_04026 POD1		CUB	ED	3	2	1	25	24S	28E	590148	3562290 	3575	190			90	100
C_00463		C	ED	4	4	4	17	24S	29E	594332	3564282* 	4107	260			4	256
C_02518		C	ED		3	4	08	25S	29E	593895	3556300* 	4116	462				
C_04617 POD1		CUB	ED	3	1	3	22	24S	29E	596241	3563113 	4147	110				
C_04503 POD1		CUB	ED	4	3	3	09	25S	29E	594884	3556142 	4549					
C_00354		C	CUB		4	4	13	24S	28E	591005	3564367* 	4555	2739				
C_04180 POD1		CUB	ED	2	1	2	26	24S	28E	589055	3562502 	4627	160			58	102
C_03423		CUB	ED	2	4	1	26	24S	28E	588786	3561952 	4649	126				
C_03833 POD1		C	ED	2	1	2	26	24S	28E	589014	3562545 	4683	96			55	41
C_00349		C	CUB		1	3	18	24S	29E	591401	3564773* 	4757	2734				
C_00353		C	CUB		3	4	13	24S	28E	590603	3564367* 	4757	2726				
C_04525 POD1		CUB	ED	3	1	2	10	25S	29E	596976	3557505 	4766					
C_04151 POD1		CUB	ED	4	2	1	26	24S	28E	588584	3562192 	4924	280			65	215
C_00863		CUB	ED	3	3	1	16	24S	29E	594524	3565091* 	4937	220				
C_00863 CLW199506	O	CUB	ED	3	3	1	16	24S	29E	594524	3565091* 	4937	220				

Maximum Depth: **90 feet**

UTMNAD83 Radius Search (in meters):

Radius: 5000

Released to Imaging: 5/7/2024 2:10:04 PM

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

7/12/22 7:36 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

National Flood Hazard Layer FIRMette



104°1'2"W 32°10'48"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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


The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/22/2022 at 1:43 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y		
NA	C 04493 POD1	4	4	4	06	25S	29E	592760	3557765		
Driller License: 1249		Driller Company:				ATKINS ENGINEERING ASSOC. INC.					
Driller Name:		JACKIE D ATKINS									
Drill Start Date: 11/18/2020		Drill Finish Date:				11/18/2020		Plug Date:		11/23/2020	
Log File Date: 12/17/2020		PCW Rev Date:						Source:		Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:		0 GPM	
Casing Size:		Depth Well:				57 feet		Depth Water:		39 feet	
Water Bearing Stratifications:		Top		Bottom		Description					
		29		57		Sandstone/Gravel/Conglomerate					

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

SOIL BORING / MONITORING WELL LOG

PROJECT: <u>Amethyst State Com #1</u>	DRILLING COMPANY: <u>Talon/LPE</u>
PROJECT NUMBER: <u>702520.031.01</u>	DRILLER: <u>Jarod Michalsky</u>
CLIENT: <u>Matador</u>	DRILLING METHOD: _____
BORING / WELL NUMBER: <u>Test Well</u>	BORE HOLE DIAMETER: _____
TOTAL DEPTH: <u>50</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
GEOLOGIST: <u>M. Gomez</u>	DATE DRILLED: <u>July 6, 2023</u>

PAGE 1 of 1

DEPTH (FT.)	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT.)
10					5'	5YR 5/4 Reddish Brown, Slightly Damp, Sand with Caliche, No Odor 5YR 6/3 Light Reddish Brown, Slightly Damp, Sand, No Odor	10
20						2.5YR 4/4 Reddish Brown, Slightly Damp, Clayey Sand, No Odor 2.5YR 5/3 Reddish Brown, Slightly Damp, Clayey Sand, No Odor	20
30						2.5YR 4/4 Reddish Brown, Slightly Damp, Clayey Sand, No Odor	30
40						2.5YR 4/4 Reddish Brown, Slightly Damp, Clayey Sand, No Odor 2.5YR 5/3 Reddish Brown, Slightly Damp, Clayey Sand, No Odor	40
50					50'	Water Encountered at 49 feet Bottom of Hole	50
60							60

REMARKS:

THIS BORING LOG SHOULD NOT BE USED SEPARATE FROM
THE ORIGINAL REPORT.



KEY TO SYMBOLS

Symbol Description

Monitor Well Details



Plugged Soil Boring



APPENDIX IV

Photographic Documentation



Amethyst State Com #1
Eddy County, New Mexico



Photograph No. 1
Description:

Tank battery

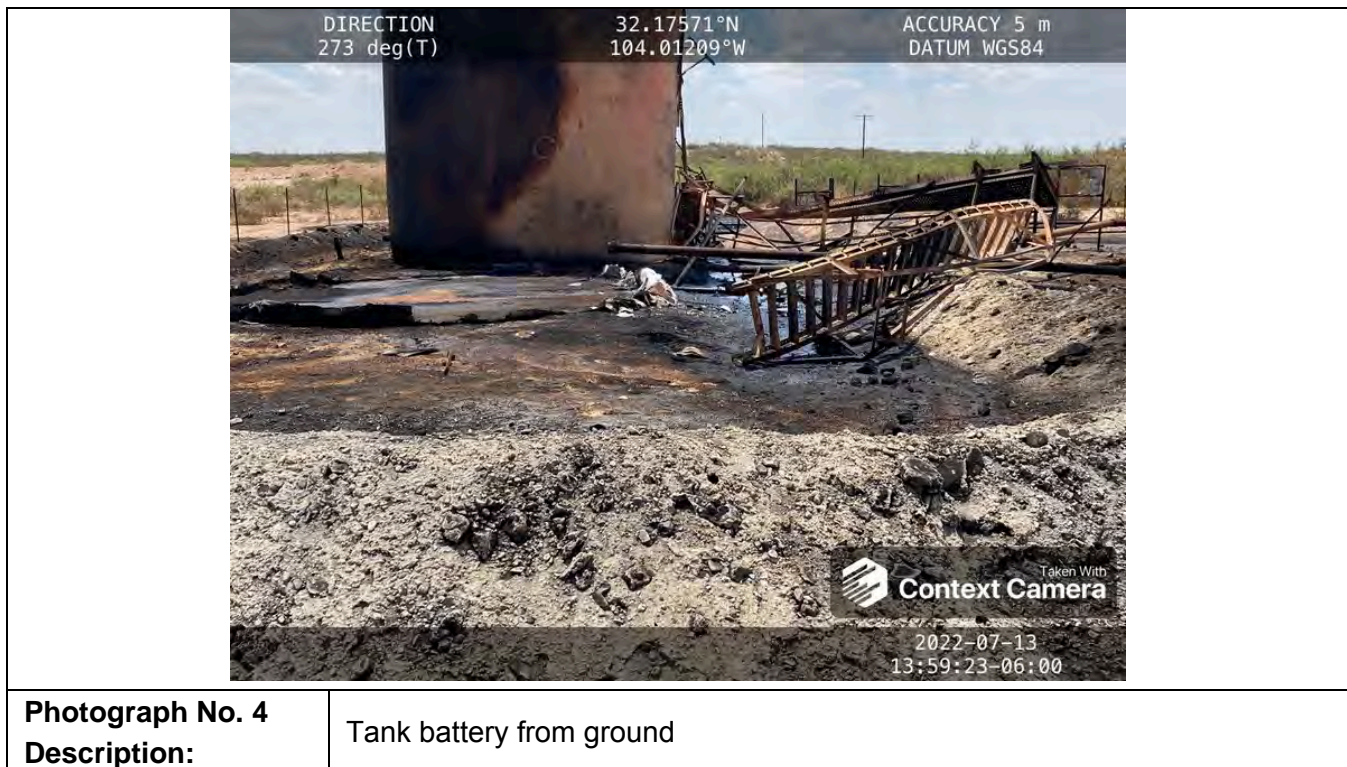


Photograph No. 2
Description:

Release area



Amethyst State Com #1
Eddy County, New Mexico



Amethyst State Com #1
Eddy County, New Mexico



Amethyst State Com #1
Eddy County, New Mexico



Photograph No. 7
Description:

Drone view of excavation



Photograph No. 8
Description:

Drone view of excavation



Amethyst State Com #1
Eddy County, New Mexico



Photograph No. 9
Description:

Backfill pad to grade



Photograph No. 10
Description:

Backfill compacted to grade



Amethyst State Com #1
Eddy County, New Mexico



Photograph No. 11
Description:

Corrective actions, C-1 and C-2 Excavation



Photograph No. 12
Description:

Corrective actions, C-1 and C-2 Excavation



Amethyst State Com #1
Eddy County, New Mexico



Photograph No. 13
Description:

Corrective actions, C-3 Excavation



Photograph No. 14
Description:

Corrective actions, C-4 Excavation



Amethyst State Com #1
Eddy County, New Mexico



Photograph No. 15
Description:

Corrective actions, C-5 and C-6 Excavation



Photograph No. 16
Description:

Corrective actions, C-5 and C-6 Excavation



APPENDIX V

Correspondence

From: [Rebecca Pons](#)
To: [Matthew Gomez](#); [James Carnes](#)
Subject: FW: Incident #nAPP2219263776
Date: Wednesday, August 17, 2022 7:48:00 AM
Attachments: [image001.png](#)

Rebecca Pons

Environmental Project Manager

Office: 575.746.8768 x708

Direct: 575.616.4023

Cell: 575.441.0980

Fax: 575.746.8905

Emergency: 866.742.0742

Web: www.talonlpe.com



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to clientrelations@talonlpe.com.

From: Rebecca Pons <>

Sent: Wednesday, August 17, 2022 7:48 AM

To: info, nmwrrs, OSE <nmwrrs.info@state.nm.us>

Cc: Arsenio Jones <arsenio.jones@matadorresources.com>; Arturo Parra <aparra@talonlpe.com>

Subject: Incident #nAPP2219263776

Good Morning,

This email will serve as notification that we are going to be confirmation sampling the Amethyst State Com #001 for Incident #nAPP2219263776 on Friday August 19, 2022 at approximately 8:00AM. If you have any questions please feel free to call me.

Respectfully,

Rebecca Pons

Rebecca Pons

Senior Environmental Project Manager

Office: 575.746.8768 x708

Direct: 575.616.4023

Cell: 575.441.0980

Fax: 575.746.8905

Emergency: 866.742.0742

Web: www.talonlpe.com





APPENDIX VI

Laboratory Analytical Data



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 15, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMETHYST STATE COM #001

Enclosed are the results of analyses for samples received by the laboratory on 07/13/22 12:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-1 0-1' (H223030-01)

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	07/14/2022	ND	1.86	93.1	2.00	7.73	
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/14/2022	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	07/15/2022	ND	178	88.9	200	6.59	
DRO >C10-C28*	514	10.0	07/15/2022	ND	193	96.7	200	6.00	
EXT DRO >C28-C36	244	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 43-149

Surrogate: 1-Chlorooctadecane 123 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-1 2' (H223030-02)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/14/2022	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	07/14/2022	ND	178	88.9	200	6.59	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	193	96.7	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 74.8 % 43-149

Surrogate: 1-Chlorooctadecane 82.2 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-1 3' (H223030-03)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/14/2022	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	07/14/2022	ND	178	88.9	200	6.59	
DRO >C10-C28*	31.5	10.0	07/14/2022	ND	193	96.7	200	6.00	
EXT DRO >C28-C36	13.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 43-149

Surrogate: 1-Chlorooctadecane 86.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-1 4' (H223030-04)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/14/2022	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	07/14/2022	ND	178	88.9	200	6.59	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	193	96.7	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 74.9 % 43-149

Surrogate: 1-Chlorooctadecane 81.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-2 0-1' (H223030-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	422	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	116	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 43-149

Surrogate: 1-Chlorooctadecane 96.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-2 2' (H223030-06)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	31.4	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 43-149

Surrogate: 1-Chlorooctadecane 85.8 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-2 3' R (H223030-07)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 43-149

Surrogate: 1-Chlorooctadecane 88.5 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-3 0-1' (H223030-08)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	167	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	44.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 43-149

Surrogate: 1-Chlorooctadecane 94.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-3 2' (H223030-09)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 43-149

Surrogate: 1-Chlorooctadecane 83.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-3 3' R (H223030-10)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 43-149

Surrogate: 1-Chlorooctadecane 79.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BG-1 0' (H223030-11)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 43-149

Surrogate: 1-Chlorooctadecane 80.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/13/2022
 Reported: 07/15/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BG-2 0' (H223030-12)

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	07/14/2022	ND	1.86	93.1	2.00	7.73		
Toluene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.99	99.4	2.00	7.42		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.21	104	6.00	8.11		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/14/2022	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	07/14/2022	ND	203	101	200	6.81	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	226	113	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 43-149

Surrogate: 1-Chlorooctadecane 86.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Talon LPE						P.O. #:						ANALYSIS REQUEST					
Project Manager: R. Pons						Company:											
Address: 408 W. Texas Ave						Attn:											
City: Artesia						State: NM zip: 88210											
Phone #: 575.746.8768						Fax #:											
Project #: 702520.031.01						Project Owner: Matador											
Project Name: Amethyst State Com #001						City:											
Project Location: Eddy County, NM						State:						Zip:					
Sample Name: J. Carnes						Phone #:											
FOR LAB USE ONLY						Fax #:											
Lab I.D.						Sample I.D.											
HBA3030						(G)RAB OR (C)OMP.											
1						# CONTAINERS											
2						GROUNDWATER											
3						WASTEWATER											
4						SOIL											
5						OIL											
6						SLUDGE											
7						OTHER :											
8						ACID/BASE:											
9						ICE / COOL											
10						OTHER :											
S-1 0-1'						DATE						TIME					
S-1 2'						7-11-21						10:30					
S-1 3'												10:35					
S-1 4'												10:40					
S-2 0-1'												10:45					
S-2 2'												10:50					
S-2 3'R												10:55					
S-3 0-1'												11:40					
S-3 2'												11:45					
S-3 3'R												11:50					
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Relinquished By: [Signature]						Date: 9/13/21						Received By: [Signature]					
Relinquished By: [Signature]						Time: 12:15						Received By: [Signature]					
Delivered By: (Circle One)						4.1°C C-O-C						CHECKED BY: [Signature]					
Sampler - UPS - Bus - Other:						3.5°C #113						pg 1 of 2					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 18, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMETHYST STATE COM #001

Enclosed are the results of analyses for samples received by the laboratory on 07/14/22 13:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	AMETHYST STATE COM #001	Sampling Condition:	Cool & Intact
Project Number:	702520.031.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY, NM		

Sample ID: S - 4 0-1' (H223066-01)

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	07/16/2022	ND	2.04	102	2.00	10.4	
Toluene*	<0.050	0.050	07/16/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.18	109	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.62	110	6.00	10.1	
Total BTEx	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/15/2022	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	07/15/2022	ND	176	88.2	200	20.8	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	198	98.8	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 43-149

Surrogate: 1-Chlorooctadecane 87.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 2' (H223066-02)

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	07/16/2022	ND	1.99	99.5	2.00	11.0	
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3	
Total BTEX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	07/15/2022	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	07/15/2022	ND	176	88.2	200	20.8	
DRO >C10-C28*	40.5	10.0	07/15/2022	ND	198	98.8	200	15.7	
EXT DRO >C28-C36	10.1	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 43-149

Surrogate: 1-Chlorooctadecane 91.4 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 3' R (H223066-03)

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	07/16/2022	ND	1.99	99.5	2.00	11.0	
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3	
Total BTEX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/15/2022	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	07/15/2022	ND	176	88.2	200	20.8	
DRO >C10-C28*	41.6	10.0	07/15/2022	ND	198	98.8	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 43-149

Surrogate: 1-Chlorooctadecane 91.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 0-1' (H223066-04)

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	07/16/2022	ND	1.99	99.5	2.00	11.0	
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3	
Total BTEX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	07/15/2022	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	07/15/2022	ND	176	88.2	200	20.8	
DRO >C10-C28*	171	10.0	07/15/2022	ND	198	98.8	200	15.7	
EXT DRO >C28-C36	55.4	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 2' (H223066-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	07/15/2022	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	07/15/2022	ND	176	88.2	200	20.8	
DRO >C10-C28*	124	10.0	07/15/2022	ND	198	98.8	200	15.7	
EXT DRO >C28-C36	55.7	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 113 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 3' R (H223066-06)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	07/15/2022	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	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 43-149

Surrogate: 1-Chlorooctadecane 85.9 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 0-1' (H223066-07)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/15/2022	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	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 43-149

Surrogate: 1-Chlorooctadecane 90.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 2' (H223066-08)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	07/15/2022	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	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 43-149

Surrogate: 1-Chlorooctadecane 85.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 3' (H223066-09)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	07/18/2022	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 43-149

Surrogate: 1-Chlorooctadecane 96.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 4' (H223066-10)

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	07/16/2022	ND	1.99	99.5	2.00	11.0	
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3	
Total BTEx	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 71.3 % 43-149

Surrogate: 1-Chlorooctadecane 85.0 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 0-1' (H223066-11)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 43-149

Surrogate: 1-Chlorooctadecane 87.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	AMETHYST STATE COM #001	Sampling Condition:	Cool & Intact
Project Number:	702520.031.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY, NM		

Sample ID: S - 7 2' (H223066-12)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 72.4 % 43-149

Surrogate: 1-Chlorooctadecane 86.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 3' (H223066-13)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 43-149

Surrogate: 1-Chlorooctadecane 86.2 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 4' (H223066-14)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 43-149

Surrogate: 1-Chlorooctadecane 88.0 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 0-1' (H223066-15)

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	07/16/2022	ND	1.99	99.5	2.00	11.0	
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3	
Total BTEX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	13.1	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.0 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 2' (H223066-16)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 73.3 % 43-149

Surrogate: 1-Chlorooctadecane 86.0 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 3' (H223066-17)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 4' (H223066-18)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 43-149

Surrogate: 1-Chlorooctadecane 94.5 % 42.5-161

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Analytical Results For:

TALON LPE
REBECCA PONS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/14/2022
Reported: 07/18/2022
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 9 0-1' (H223066-19)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 43-149

Surrogate: 1-Chlorooctadecane 88.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 2' (H223066-20)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 43-149

Surrogate: 1-Chlorooctadecane 88.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 3' (H223066-21)

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	07/16/2022	ND	1.99	99.5	2.00	11.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.05	103	2.00	11.5		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.08	104	2.00	10.5		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.37	106	6.00	11.3		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	308	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 74.2 % 43-149

Surrogate: 1-Chlorooctadecane 86.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 4' (H223066-22)

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	07/16/2022	ND	1.91	95.7	2.00	12.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.18	109	2.00	14.7		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.11	105	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.65	111	6.00	15.8		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 43-149

Surrogate: 1-Chlorooctadecane 85.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 3 0' (H223066-23)

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	07/16/2022	ND	1.91	95.7	2.00	12.0	
Toluene*	<0.050	0.050	07/16/2022	ND	2.18	109	2.00	14.7	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.11	105	2.00	13.6	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.65	111	6.00	15.8	
Total BTEX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 43-149

Surrogate: 1-Chlorooctadecane 91.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 07/14/2022
 Reported: 07/18/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 07/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 4 0' (H223066-24)

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	07/16/2022	ND	1.91	95.7	2.00	12.0		
Toluene*	<0.050	0.050	07/16/2022	ND	2.18	109	2.00	14.7		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.11	105	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.65	111	6.00	15.8		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	221	110	200	2.87	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	224	112	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 43-149

Surrogate: 1-Chlorooctadecane 91.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476									
Company Name: Talon LPE									
Project Manager: R. Pons									
Address: 408 W. Texas Ave									
City: Artesia									
State: NM zip: 88210									
Phone #: 575.746.8768									
Fax #: 575.746.8768									
Project #: 702520.031.01									
Project Owner: Matador									
Project Name: Amethyst State Com #1									
Project Location: Eddy County, NM									
Sample Name: J. Carnes, A. Parra									
FOR LAB USE ONLY									
Lab I.D. Sample I.D.									
1 S-4 0-1'									
2 S-4 2'									
3 S-4 3'R									
4 S-5 0-1'									
5 S-5 2'									
6 S-5 3'R									
7 S-6 0-1'									
8 S-6 2'									
9 S-6 3'									
10 S-6 4'									
(G)RAB OR (C)OMP.									
# CONTAINERS									
GROUNDWATER									
WASTEWATER									
SOIL									
OIL									
SLUDGE									
OTHER :									
ACID/BASE:									
ICE / COOL									
OTHER :									
DATE									
TIME									
9:15									
9:20									
9:25									
9:35									
9:40									
9:45									
10:00									
10:10									
10:15									
10:18									
Chlorides									
TAP									
BTEX									
P.O. #:									
Company:									
Attn:									
Address:									
City:									
State:									
Zip:									
Phone #:									
Fax #:									
BILL TO									
ANALYSIS REQUEST									



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		P.O. #:		BILL TO										ANALYSIS REQUEST																															
Project Manager: R. Pons		Company:																																											
Address: 408 W. Texas Ave		Attn:																																											
City: Artesia		Address:																																											
State: NM zip: 88210		City:																																											
Phone #: 575.746.8768		Fax #:																																											
Project #: 702520.031.01		Project Owner: Matador																																											
Project Name: Amethyst State Com #1		State:																																											
Project Location: Eddy County, NM		Zip:																																											
Sampler Name: J. Carnes, A. Parra		Phone #:																																											
Fax #:																																													
FOR LAB USE ONLY																																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chlorides		TPH		BTEX											
H223064		11		S-7 0-1'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X											
12		S-7 2'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
13		S-7 3'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
14		S-7 4'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
15		S-8 0-1'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
16		S-8 2'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
17		S-8 3'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
18		S-8 4'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
19		S-9 0-1'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
20		S-9 2'		G 1		X		X		X		X		X		X		X		X		X		X		X		X		X		X													
PLEASE NOTE: Lab and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. 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, 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.		Relinquished By:		Date: 7-14-22		Received By:		Date: 7-13-18		Time: 13:18		Received By: J. Carnes		Time: 13:18		Sample Condition: Cool Intact		Checked By: (Initials) YD		Delivered By: (Circle One) 4.7°C C-0.6°C		Sampler - UPS - Bus - Other: 4.1°C #113		Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326		Phone Result: Yes No		Fax Result: Yes No		Add'l Phone #: Add'l Fax #:		REMARKS: pg 2 of 3													



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Talon LPE
Project Manager:	R. Pons
Address:	408 W. Texas Ave
City:	Artesia
State:	NM
Zip:	88210
Phone #:	575.746.8768
Fax #:	
Project #:	702520.031.01
Project Owner:	Mataador
Project Name:	Ammethyst State Com #1
Project Location:	Eddy County, NM
Sampler Name:	J. Carnes, A. Parra
P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	
Zip:	
Phone #:	
Fax #:	
MATRIX	
PRESERV.	SAMPLING

[illegible]

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<small>service, and prevent shall be liable for incidental or consequential damages, including without limitation, reasonable attorneys' or accountants' fees, and 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.</small>			
Relinquished By:	Date: 7-14-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____
	Time: 1:38		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
	Yes <input type="checkbox"/> No <input type="checkbox"/>		
	Yes <input type="checkbox"/> No <input type="checkbox"/>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 24, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMETHYST STATE COM #001

Enclosed are the results of analyses for samples received by the laboratory on 08/22/22 11:53.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 A 1' (H223834-01)

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	08/22/2022	ND	2.05	103	2.00	0.679	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407	
Total BTEX	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	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	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 A 1' (H223834-02)

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	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	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 3 A 1' (H223834-03)

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	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	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 A 1' (H223834-04)

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 5 A 1' (H223834-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 6 A 1' (H223834-06)

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 7 A 1' (H223834-07)

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	08/22/2022	ND	2.05	103	2.00	0.679	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407	
Total BTEX	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 8 A 1' (H223834-08)

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 74.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 9 A 1' (H223834-09)

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 10 A 1' (H223834-10)

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.2 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 11 A 1' (H223834-11)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	24.8	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 12 A 1' (H223834-12)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 13 4' (H223834-13)

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	08/23/2022	ND	2.05	103	2.00	1.35	
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71	
Total BTEX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 14 4' (H223834-14)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 15 4' (H223834-15)

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	08/23/2022	ND	2.05	103	2.00	1.35	
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71	
Total BTEX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/23/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 16 4' (H223834-16)

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	08/23/2022	ND	2.05	103	2.00	1.35	
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71	
Total BTEX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 17 4' (H223834-17)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 18 4' (H223834-18)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 19 4' (H223834-19)

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	08/23/2022	ND	2.05	103	2.00	1.35	
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71	
Total BTEX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	08/23/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 20 4' (H223834-20)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	08/23/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 1' (H223834-21)

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	08/23/2022	ND	2.05	103	2.00	1.35	
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71	
Total BTEX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

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	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 1' (H223834-22)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 21 A 4' (H223834-23)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/22/2022
 Reported: 08/24/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 22 A 4' (H223834-24)

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	08/23/2022	ND	2.05	103	2.00	1.35		
Toluene*	<0.050	0.050	08/23/2022	ND	2.03	102	2.00	1.91		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.95	97.7	2.00	2.16		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.10	102	6.00	2.71		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

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	08/23/2022	ND	198	99.2	200	0.121	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	213	106	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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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.
- 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.
- 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		P.O. #:		BILITIO		ANALYSIS REQUEST						
Project Manager:		Company:										
Address: 408 W. Texas Ave		Attn:										
City: Artesia		Address:										
Phone #: 575.746.8768		Fax #:										
State: NM Zip: 88210		City:										
Project #: 702503101		Project Owner:										
Project Name: Amethyst Stream		State:										
Project Location: Eddy		Zip:										
Sampler Name: A. P. Miller		Phone #:										
FOR LAB USE ONLY		Fax #:										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				DATE	TIME	TPT	DTex	CL
				GROUNDWATER	WASTEWATER	SOIL	OIL					
H223834	5.1A 1'	C	1					8/19	10:00			
1	5.2A 1'	C	1					10:05				
2	5.3A 1'	C	1					10:10				
3	5.4A 1'	C	1					10:15				
4	5.5A 1'	C	1					10:20				
5	5.6A 1'	C	1					10:25				
6	5.7A 1'	C	1					10:30				
7	5.8A 1'	C	1					10:35				
8	5.9A 1'	C	1					10:40				
9	5.10A 1'	C	1					10:45				
10												
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Relinquished By:		Date: 8/23/23		Received By:		Date: 8/23/23		Time: 11:53		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		
Relinquished By:		Time:		Received By:		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:		REMARKS:		
Delivered By: (Circle One)		Sample Condition		CHECKED BY:								
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		8/23/23								
		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>										

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE

Project Manager:

Address: 408 W. Texas Ave

City: Artesia

Phone #: 575.746.8768

Fax #:

Project #: 708520.031.01

Project Owner:

Project Name: Amherst St. Cor

Project Location: CDD

Sampler Name: D. Dyer

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H23834

(G)RAB OR (C)OMP.
CONTAINERS

MATRIX
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE

TIME

Bter
LPA
CL

ANALYSIS REQUEST

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Relinquished By:

Date: 8/13/23

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Relinquished By:

Date: 8/13/23

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Relinquished By:

Date: 8/13/23

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Relinquished By:

Date: 8/13/23

Received By:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Fax Result:

Yes ☐ No ☐

Add'l Fax #:

Delivered By: (Circle One)

0.42 C-0.62

Sample Condition
Cool ☐ Intact ☐

CHECKED BY: (Initials)

REMARKS:

2 of 2

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: TRAVELER		P.O. #:		BILL TO		ANALYSIS REQUEST																																	
Project Manager:		Company:																																					
Address: 408 Turner		Attn:																																					
City: Atlanta		State: GA		Zip: 30310																																			
Phone #: 575 746 8168		Fax #:																																					
Project #: 700 520 031.01		Project Owner:																																					
Project Name: Amtrak Station		City:																																					
Project Location: CDM		State:																																					
Project Name: Atlanta		Phone #:																																					
Sample Name: Atlanta		Fax #:																																					
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																													
				# CONTAINERS																																			
H223834		50111		C		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
21		50211		C		1		1		1		1		1		1		1		1		1		8/19		2:05		BT											
22		50211		C		1		1		1		1		1		1		1		1		1		1		8/17		2:35		JPH									
23		50211		C		1		1		1		1		1		1		1		1		1		1		8/19		2:45		CL									
24		50211		C		1		1		1		1		1		1		1		1		1		1		8/19		2:45											



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 31, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMETHYST STATE COM #001

Enclosed are the results of analyses for samples received by the laboratory on 08/26/22 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 24 A 4' (H223948-01)

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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.9 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 25 A 4' (H223948-02)

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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTEX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 74.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 26 A 4' (H223948-03)

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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTEX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 68.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 27 A 4' (H223948-04)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 28 A 4' (H223948-05)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
REBECCA PONS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/26/2022
Reported: 08/31/2022
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 29 A 4' (H223948-06)

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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTEX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.8 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 30 A 4' (H223948-07)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 81.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 31 A 4' (H223948-08)

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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.7 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 32 A 4' (H223948-09)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 33 A 4' (H223948-10)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 34 A 4' (H223948-11)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.7 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 35 A 4' (H223948-12)

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	08/30/2022	ND	1.95	97.7	2.00	4.64		
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88		
Total BTEX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.3 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 36 A 4' (H223948-13)

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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/31/2022	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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.1 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 37 A 4' (H223948-14)

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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 70.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 38 A 4' (H223948-15)

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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTEx	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 74.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.6 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 39 A 4' (H223948-16)

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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTEx	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 40 A 4' (H223948-17)

BTX 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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 41 A 4' (H223948-18)

BTX 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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 42 A 4' (H223948-19)

BTX 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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 43 A 4' (H223948-20)

BTX 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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 44 A 4' (H223948-21)

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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 45 A 4' (H223948-22)

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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 46 A 4' (H223948-23)

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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 47 A 4' (H223948-24)

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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 74.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 48 A 4' (H223948-25)

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	08/29/2022	ND	2.19	109	2.00	8.28		
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81		
Total BTEx	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 49 A 4' (H223948-26)

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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	08/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 50 A 4' (H223948-27)

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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-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	08/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 51 A 4' (H223948-28)

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	08/29/2022	ND	2.19	109	2.00	8.28	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	7.93	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.09	104	2.00	8.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.47	108	6.00	8.81	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 77.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 52 4' (H223948-29)

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	08/31/2022	ND	2.05	103	2.00	0.447		
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52		
Total BTEX	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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Analytical Results For:

TALON LPE
REBECCA PONS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/26/2022
Reported: 08/31/2022
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 53 4' (H223948-30)

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	08/31/2022	ND	2.05	103	2.00	0.447		
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52		
Total BTEX	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 54 A 4' (H223948-31)

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	08/31/2022	ND	2.05	103	2.00	0.447	
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52	
Total BTEX	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 77.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 55 A 4' (H223948-32)

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	08/31/2022	ND	2.05	103	2.00	0.447	
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52	
Total BTEx	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 56 A 4' (H223948-33)

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	08/31/2022	ND	2.05	103	2.00	0.447	
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52	
Total BTEX	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	08/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	208	104	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 57 A 4' (H223948-34)

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	08/31/2022	ND	2.05	103	2.00	0.447	
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52	
Total BTEX	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/30/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	194	97.2	200	3.85	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	217	108	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 58 A 4' (H223948-35)

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	08/31/2022	ND	2.05	103	2.00	0.447		
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52		
Total BTEx	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	08/30/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	194	97.2	200	3.85	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	217	108	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 59 A 4' (H223948-36)

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	08/31/2022	ND	2.05	103	2.00	0.447		
Toluene*	<0.050	0.050	08/31/2022	ND	2.01	101	2.00	0.0474		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	1.97	98.4	2.00	1.12		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.18	103	6.00	1.52		
Total BTEX	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/30/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	194	97.2	200	3.85	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	217	108	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 60 A 4' (H223948-37)

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	08/30/2022	ND	2.04	102	2.00	6.24	
Toluene*	<0.050	0.050	08/30/2022	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	1.96	98.0	2.00	6.58	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.11	102	6.00	5.35	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	08/30/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	194	97.2	200	3.85	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	217	108	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 99.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		P.O. #:		BILL TO										ANALYSIS REQUEST																									
Project Manager:		Company:																																					
Address: 408 W. Texas Ave		Attn:																																					
City: Artesia		Address:																																					
Phone #: 575.746.8768		City:																																					
Fax #: 575.746.8768		State:																																					
Project #: 702620.03101		Zip:																																					
Project Owner:		Project Name:																																					
Project Location: CD24.		State:																																					
Sampler Name: A. Pava		Phone #:																																					
Fax #:		PRESERV:																																					
FOR LAB USE ONLY		SAMPLING																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
H223948		5.24		4'																						8:24		12:25											
1		5.25		4'																						12:30		12:35											
2		5.26		4'																						12:40		12:45											
3		5.27		4'																						12:50		12:55											
4		5.28		4'																						1:00		1:05											
5		5.29		4'																						1:10		1:15											
6		5.30		4'																						1:20		1:25											
7		5.31		4'																						1:30		1:35											
8		5.32		4'																						1:40		1:45											
9		5.33		4'																						1:50		1:55											
10		5.34		4'																						2:00		2:05											
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Relinquished By:		Date: 8-26-22		Received By:		Time: 11:25		Signature: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS:																					
Relinquished By:		Date:		Received By:		Time:																																	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)																																			
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																			
4.8°C/4.2°C		#113		[Signature]																																			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST																															
Project Manager:		P.O. #:																																	
Address: 408 W. Texas Ave		Company:																																	
City: Artesia		Attn:																																	
Phone #: 575.746.8768		Address:																																	
Fax #: 575.746.8768		City:																																	
Project #: 702520.031.01		State:																																	
Project Owner:		Zip:																																	
Project Name: Amekyst Steel		Phone #:																																	
Project Location: CTIDY		Fax #:																																	
Sampler Name: A. Pagan																																			
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CL		BT		IDH	
#22 3948		5.34A		4'		1																				8:24		1:15							
11		5.35A		4'																						1:20									
12		5.36A		4'																						1:25									
13		5.37A		4'																						1:30									
14		5.38A		4'																						1:35									
15		5.39A		4'																						1:40									
16		5.40A		4'																						1:45									
17		5.41A		4'																						1:50									
18		5.42A		4'																						1:55									
19		5.43A		4'																						2:00									
20		5.44A		4'																															
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Relinquished By:		Date: 8-26-22		Time: 1:25		Received By:		Date: 8-26-22		Time: 1:25		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS:															
Relinquished By:		Date:		Time:		Received By:		Date:		Time:																									
Delivered By: (Circle One)		Sample Condition		Checked By: (Initials)																															
Sampler - UPS - Bus - Other: 4.8°/4.2° #113		<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		YD																															
		<input type="checkbox"/> Yes <input type="checkbox"/> No																																	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon LPE		P.O. #:		BILL TO										ANALYSIS REQUEST																	
Project Manager:		Address: 408 W. Texas Ave		Company:																											
City: Artesia		State: NM Zip: 88210		Attn:																											
Phone #: 575.746.8768		Fax #:		Address:																											
Project #: 70580031.01		Project Owner:		City:																											
Project Name: Amethyst ST Can		State:		Zip:																											
Project Location: EDDY		Phone #:		Fax #:																											
Sample Name: APEX		FOR LAB USE ONLY		PRESERV		SAMPLING																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CHECKED BY:	
H223948		31		3.44 A		41		C		1		1		1		1		1		1		1		1		1		1		1	
32		3.45 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
33		3.46 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
34		3.47 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
35		3.48 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
36		3.49 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
37		3.50 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
38		3.51 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
39		3.52 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
40		3.53 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
41		3.54 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
42		3.55 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
43		3.56 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
44		3.57 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
45		3.58 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
46		3.59 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
47		3.60 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
48		3.61 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
49		3.62 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
50		3.63 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
51		3.64 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
52		3.65 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
53		3.66 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
54		3.67 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
55		3.68 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
56		3.69 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
57		3.70 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
58		3.71 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
59		3.72 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
60		3.73 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
61		3.74 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
62		3.75 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
63		3.76 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
64		3.77 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
65		3.78 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
66		3.79 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
67		3.80 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
68		3.81 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
69		3.82 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
70		3.83 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
71		3.84 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
72		3.85 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
73		3.86 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
74		3.87 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
75		3.88 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
76		3.89 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
77		3.90 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
78		3.91 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
79		3.92 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
80		3.93 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
81		3.94 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
82		3.95 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
83		3.96 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
84		3.97 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
85		3.98 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
86		3.99 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
87		4.00 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
88		4.01 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
89		4.02 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
90		4.03 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
91		4.04 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
92		4.05 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
93		4.06 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
94		4.07 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
95		4.08 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
96		4.09 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
97		4.10 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
98		4.11 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
99		4.12 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
100		4.13 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
101		4.14 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
102		4.15 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
103		4.16 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
104		4.17 A		41		C		1		1		1		1		1		1		1		1		1		1		1		1	
105		4.18 A		41		C																									



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 13, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMETHYST STATE COM #001

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 16:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/08/2022	Sampling Date:	09/07/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	AMETHYST STATE COM #001	Sampling Condition:	Cool & Intact
Project Number:	702520.031.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY, NM		

Sample ID: S.23A 4' (H224139-01)

BTX 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	09/13/2022	ND	2.04	102	2.00	7.30	
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64	
Total BTX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.32B 4.5' (H224139-02)

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	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.46B 4.5' (H224139-03)

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	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.47B 4.5' (H224139-04)

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	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 69.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
REBECCA PONS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/08/2022
Reported: 09/13/2022
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S.48B 4.5' (H224139-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.49B 4.5' (H224139-06)

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	09/13/2022	ND	2.04	102	2.00	7.30	
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.52B 4.5' (H224139-07)

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	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.53B 4.5' (H224139-08)

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	09/13/2022	ND	2.04	102	2.00	7.30	
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.54B 4.5' (H224139-09)

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	09/13/2022	ND	2.04	102	2.00	7.30	
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 68.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.1 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.55B 4.5' (H224139-10)

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	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.56B 4.5' (H224139-11)

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	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.58B 4.5' (H224139-12)

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	09/13/2022	ND	2.04	102	2.00	7.30		
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S.60B 4.5' (H224139-13)

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	09/13/2022	ND	2.04	102	2.00	7.30	
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-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	09/13/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 16, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMETHYST STATE COM #001

Enclosed are the results of analyses for samples received by the laboratory on 09/14/22 14:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/14/2022
 Reported: 09/16/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW- 3 3.5' (H224246-01)

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	09/16/2022	ND	2.01	100	2.00	0.373	
Toluene*	<0.050	0.050	09/16/2022	ND	2.04	102	2.00	0.782	
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	1.99	99.3	2.00	0.400	
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.24	104	6.00	1.27	
Total BTEX	<0.300	0.300	09/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-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	09/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	200	99.9	200	2.78	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	209	105	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 09/14/2022
 Reported: 09/16/2022
 Project Name: AMETHYST STATE COM #001
 Project Number: 702520.031.01
 Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW- 4 3.5' (H224246-02)

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	09/16/2022	ND	2.01	100	2.00	0.373	
Toluene*	<0.050	0.050	09/16/2022	ND	2.04	102	2.00	0.782	
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	1.99	99.3	2.00	0.400	
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.24	104	6.00	1.27	
Total BTEX	<0.300	0.300	09/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-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	09/16/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	200	99.9	200	2.78	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	209	105	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2769-1

Laboratory Sample Delivery Group: 702520.031.01

Client Project/Site: Amethyst State Com #1

Revision: 1

For:

Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: Rebecca Pons

Authorized for release by:

8/30/2022 12:25:45 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Laboratory Job ID: 890-2769-1
SDG: 702520.031.01

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Definitions/Glossary

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Job ID: 890-2769-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-2769-1
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REVISION

The report being provided is a revision of the original report sent on 8/22/2022. The report (revision 1) is being revised due to Per client email, reviewing TPH data.

Report revision history

Receipt
The samples were received on 8/17/2022 3:48 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 2.2°C

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

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

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

Client Sample Results

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Client Sample ID: TT-1

Lab Sample ID: 890-2769-1

Date Collected: 08/17/22 02:00

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	08/20/22 11:55	08/22/22 10:46	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	08/20/22 11:55	08/22/22 10:46	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	08/20/22 11:55	08/22/22 10:46	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg	-	08/20/22 11:55	08/22/22 10:46	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	08/20/22 11:55	08/22/22 10:46	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	08/20/22 11:55	08/22/22 10:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	08/20/22 11:55	08/22/22 10:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/20/22 11:55	08/22/22 10:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg	-		08/22/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.5	J	49.8	14.9	mg/Kg	-		08/22/22 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.5	J B	49.8	14.9	mg/Kg	-	08/19/22 17:44	08/20/22 22:23	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg	-	08/19/22 17:44	08/20/22 22:23	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg	-	08/19/22 17:44	08/20/22 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				08/19/22 17:44	08/20/22 22:23	1
o-Terphenyl	65	S1-	70 - 130				08/19/22 17:44	08/20/22 22:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	585		25.1	4.31	mg/Kg	-		08/19/22 22:03	5

Client Sample ID: TT-1

Lab Sample ID: 890-2769-2

Date Collected: 08/17/22 02:05

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 8

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	763		49.8	8.55	mg/Kg	-		08/19/22 22:30	10

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Client Sample ID: TT-1

Lab Sample ID: 890-2769-3

Date Collected: 08/17/22 02:10

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		25.2	4.33	mg/Kg			08/19/22 22:40	5

Client Sample ID: TT-1

Lab Sample ID: 890-2769-4

Date Collected: 08/17/22 02:15

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 12

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.97	0.853	mg/Kg			08/19/22 22:49	1

Client Sample ID: TT-1

Lab Sample ID: 890-2769-5

Date Collected: 08/17/22 02:20

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 14

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590		24.9	4.27	mg/Kg			08/19/22 22:58	5

Client Sample ID: TT-1

Lab Sample ID: 890-2769-6

Date Collected: 08/17/22 02:25

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 16

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	784		24.8	4.25	mg/Kg			08/19/22 23:07	5

Client Sample ID: TT-1

Lab Sample ID: 890-2769-7

Date Collected: 08/17/22 02:30

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/20/22 11:55	08/22/22 11:07	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/20/22 11:55	08/22/22 11:07	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/20/22 11:55	08/22/22 11:07	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/20/22 11:55	08/22/22 11:07	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/20/22 11:55	08/22/22 11:07	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/20/22 11:55	08/22/22 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	08/20/22 11:55	08/22/22 11:07	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/20/22 11:55	08/22/22 11:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			08/22/22 14:35	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Client Sample ID: TT-1

Lab Sample ID: 890-2769-7

Date Collected: 08/17/22 02:30

Matrix: Solid

Date Received: 08/17/22 15:48

Sample Depth: 18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.8	J	49.9	15.0	mg/Kg			08/22/22 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.8	J B	49.9	15.0	mg/Kg		08/19/22 17:44	08/20/22 22:45	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		08/19/22 17:44	08/20/22 22:45	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/19/22 17:44	08/20/22 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/19/22 17:44	08/20/22 22:45	1
o-Terphenyl	86		70 - 130	08/19/22 17:44	08/20/22 22:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	524		25.0	4.29	mg/Kg			08/19/22 23:16	5

Surrogate Summary

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2769-1	TT-1	95	103
890-2769-7	TT-1	95	101
LCS 880-32565/1-A	Lab Control Sample	106	104
LCSD 880-32565/2-A	Lab Control Sample Dup	109	94
MB 880-32563/5-A	Method Blank	79	116
MB 880-32565/5-A	Method Blank	79	115

Surrogate Legend

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)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2769-1	TT-1	61 S1-	65 S1-
890-2769-7	TT-1	77	86
LCS 880-32542/2-A	Lab Control Sample	84	84
LCSD 880-32542/3-A	Lab Control Sample Dup	97	99
MB 880-32542/1-A	Method Blank	72	74

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32563/5-A

Matrix: Solid

Analysis Batch: 32572

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/20/22 11:38	08/21/22 15:32	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/20/22 11:38	08/21/22 15:32	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/20/22 11:38	08/21/22 15:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/20/22 11:38	08/21/22 15:32	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/20/22 11:38	08/21/22 15:32	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/20/22 11:38	08/21/22 15:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/20/22 11:38	08/21/22 15:32	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/20/22 11:38	08/21/22 15:32	1

Lab Sample ID: MB 880-32565/5-A

Matrix: Solid

Analysis Batch: 32572

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/20/22 11:55	08/22/22 03:08	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/20/22 11:55	08/22/22 03:08	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/20/22 11:55	08/22/22 03:08	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/20/22 11:55	08/22/22 03:08	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/20/22 11:55	08/22/22 03:08	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/20/22 11:55	08/22/22 03:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/20/22 11:55	08/22/22 03:08	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/20/22 11:55	08/22/22 03:08	1

Lab Sample ID: LCS 880-32565/1-A

Matrix: Solid

Analysis Batch: 32572

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09644		mg/Kg		96	70 - 130
Toluene	0.100	0.1021		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1900		mg/Kg		95	70 - 130
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-32565/2-A

Matrix: Solid

Analysis Batch: 32572

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32565

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08950		mg/Kg		89	70 - 130	7	35

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QC Sample Results

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

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

Lab Sample ID: LCSD 880-32565/2-A

Matrix: Solid

Analysis Batch: 32572

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32565

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	5	35
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2083		mg/Kg		104	70 - 130	9	35
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-32542/1-A

Matrix: Solid

Analysis Batch: 32551

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.86	J	50.0	15.0	mg/Kg		08/19/22 17:44	08/20/22 20:12	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/19/22 17:44	08/20/22 20:12	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/19/22 17:44	08/20/22 20:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	08/19/22 17:44	08/20/22 20:12	1
o-Terphenyl	74		70 - 130	08/19/22 17:44	08/20/22 20:12	1

Lab Sample ID: LCS 880-32542/2-A

Matrix: Solid

Analysis Batch: 32551

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	721.7		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	1000	785.3		mg/Kg		79	70 - 130

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

Lab Sample ID: LCSD 880-32542/3-A

Matrix: Solid

Analysis Batch: 32551

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32542

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	812.5		mg/Kg		81	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	905.4		mg/Kg		91	70 - 130	14	20

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QC Sample Results

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

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

Lab Sample ID: LCSD 880-32542/3-A

Matrix: Solid

Analysis Batch: 32551

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32542

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32421/1-A

Matrix: Solid

Analysis Batch: 32603

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			08/19/22 18:49		1

Lab Sample ID: LCS 880-32421/2-A

Matrix: Solid

Analysis Batch: 32603

Client Sample ID: Lab Control Sample

Prep Type: Soluble

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	246.0		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-32421/3-A

Matrix: Solid

Analysis Batch: 32603

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

		Spike	LCSD	LCSD				%Rec		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	242.2		mg/Kg		97	90 - 110	2	20

QC Association Summary

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

GC VOA

Prep Batch: 32563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32563/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 32565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Total/NA	Solid	5035	
890-2769-7	TT-1	Total/NA	Solid	5035	
MB 880-32565/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32565/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32565/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 32572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Total/NA	Solid	8021B	32565
890-2769-7	TT-1	Total/NA	Solid	8021B	32565
MB 880-32563/5-A	Method Blank	Total/NA	Solid	8021B	32563
MB 880-32565/5-A	Method Blank	Total/NA	Solid	8021B	32565
LCS 880-32565/1-A	Lab Control Sample	Total/NA	Solid	8021B	32565
LCSD 880-32565/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32565

Analysis Batch: 32699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Total/NA	Solid	Total BTEX	
890-2769-7	TT-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 32542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Total/NA	Solid	8015NM Prep	
890-2769-7	TT-1	Total/NA	Solid	8015NM Prep	
MB 880-32542/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32542/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32542/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Total/NA	Solid	8015B NM	32542
890-2769-7	TT-1	Total/NA	Solid	8015B NM	32542
MB 880-32542/1-A	Method Blank	Total/NA	Solid	8015B NM	32542
LCS 880-32542/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32542
LCSD 880-32542/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32542

Analysis Batch: 32666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Total/NA	Solid	8015 NM	
890-2769-7	TT-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

HPLC/IC (Continued)

Leach Batch: 32421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-2	TT-1	Soluble	Solid	DI Leach	
890-2769-3	TT-1	Soluble	Solid	DI Leach	
890-2769-4	TT-1	Soluble	Solid	DI Leach	
890-2769-5	TT-1	Soluble	Solid	DI Leach	
890-2769-6	TT-1	Soluble	Solid	DI Leach	
890-2769-7	TT-1	Soluble	Solid	DI Leach	
MB 880-32421/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32421/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32421/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 32603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2769-1	TT-1	Soluble	Solid	300.0	32421
890-2769-2	TT-1	Soluble	Solid	300.0	32421
890-2769-3	TT-1	Soluble	Solid	300.0	32421
890-2769-4	TT-1	Soluble	Solid	300.0	32421
890-2769-5	TT-1	Soluble	Solid	300.0	32421
890-2769-6	TT-1	Soluble	Solid	300.0	32421
890-2769-7	TT-1	Soluble	Solid	300.0	32421
MB 880-32421/1-A	Method Blank	Soluble	Solid	300.0	32421
LCS 880-32421/2-A	Lab Control Sample	Soluble	Solid	300.0	32421
LCSD 880-32421/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32421

Lab Chronicle

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Client Sample ID: TT-1**Date Collected: 08/17/22 02:00****Date Received: 08/17/22 15:48****Lab Sample ID: 890-2769-1****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32565	08/20/22 11:55	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32572	08/22/22 10:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32699	08/22/22 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32666	08/22/22 13:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32542	08/19/22 17:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32551	08/20/22 22:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32421	08/18/22 10:38	CH	EET MID
Soluble	Analysis	300.0		5			32603	08/19/22 22:03	CH	EET MID

Client Sample ID: TT-1**Date Collected: 08/17/22 02:05****Date Received: 08/17/22 15:48****Lab Sample ID: 890-2769-2****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	32421	08/18/22 10:38	CH	EET MID
Soluble	Analysis	300.0		10			32603	08/19/22 22:30	CH	EET MID

Client Sample ID: TT-1**Date Collected: 08/17/22 02:10****Date Received: 08/17/22 15:48****Lab Sample ID: 890-2769-3****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	32421	08/18/22 10:38	CH	EET MID
Soluble	Analysis	300.0		5			32603	08/19/22 22:40	CH	EET MID

Client Sample ID: TT-1**Date Collected: 08/17/22 02:15****Date Received: 08/17/22 15:48****Lab Sample ID: 890-2769-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	32421	08/18/22 10:38	CH	EET MID
Soluble	Analysis	300.0		1			32603	08/19/22 22:49	CH	EET MID

Client Sample ID: TT-1**Date Collected: 08/17/22 02:20****Date Received: 08/17/22 15:48****Lab Sample ID: 890-2769-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	32421	08/18/22 10:38	CH	EET MID
Soluble	Analysis	300.0		5			32603	08/19/22 22:58	CH	EET MID

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Lab Chronicle

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Client Sample ID: TT-1

Lab Sample ID: 890-2769-6

Date Collected: 08/17/22 02:25

Matrix: Solid

Date Received: 08/17/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	32421	08/18/22 10:38	CH	EET MID
Soluble	Analysis	300.0		5			32603	08/19/22 23:07	CH	EET MID

Client Sample ID: TT-1

Lab Sample ID: 890-2769-7

Date Collected: 08/17/22 02:30

Matrix: Solid

Date Received: 08/17/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	32565	08/20/22 11:55	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32572	08/22/22 11:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32699	08/22/22 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32666	08/22/22 13:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32542	08/19/22 17:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32551	08/20/22 22:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32421	08/18/22 10:38	CH	EET MID
Soluble	Analysis	300.0		5			32603	08/19/22 23:16	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: Amethyst State Com #1

Job ID: 890-2769-1
SDG: 702520.031.01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2769-1	TT-1	Solid	08/17/22 02:00	08/17/22 15:48	6
890-2769-2	TT-1	Solid	08/17/22 02:05	08/17/22 15:48	8
890-2769-3	TT-1	Solid	08/17/22 02:10	08/17/22 15:48	10
890-2769-4	TT-1	Solid	08/17/22 02:15	08/17/22 15:48	12
890-2769-5	TT-1	Solid	08/17/22 02:20	08/17/22 15:48	14
890-2769-6	TT-1	Solid	08/17/22 02:25	08/17/22 15:48	16
890-2769-7	TT-1	Solid	08/17/22 02:30	08/17/22 15:48	18



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Project Manager:	R. Pons	Bill to: (if different)	
Company Name:	Talon LPE	Company Name:	
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	

Work Order Comments	
Program: UST/PTST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Amethyst State Com #1	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	702520.031.01	Due Date:	2 Day		
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	A. Parra	Wet Ice:	(Yes) No		
PO #:		Thermometer ID:	NM-003		
SAMPLE RECEIPT	Temp Blank: (Yes) No	Correction Factor:	-0.02		
Samples Received In tact:	Yes No	Temperature Reading:	2.1		
Cooler Custody Seals:	Yes No	Corrected Temperature:	2.0		
Sample Custody Seals:	Yes No				
Total Containers:					



890-2769 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	BTEX	TPH	ANALYSIS REQUEST	Preservative Codes
TT-1	Soil	8/17/2022	2:00	6'	Grab	1	X	X	X		None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
TT-1			2:05	8'							
TT-1			2:10	10'							
TT-1			2:15	12'							
TT-1			2:20	14'							
TT-1			2:25	16'							
TT-1			2:30	18'			X	X			

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

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 of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>Matthew Gauerz</i>	8/17/22 3:00	<i>Matthew Gauerz</i>	<i>Mike Wiff</i>	8-17-22 15:48

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2769-1

SDG Number: 702520.031.01

Login Number: 2769

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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.	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 <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2769-1

SDG Number: 702520.031.01

Login Number: 2769

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/19/22 10:36 AM

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 <6mm (1/4").	N/A	



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2859-1

Laboratory Sample Delivery Group: 702520.031.01

Client Project/Site: Amethyst Com

For:

Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: Rebecca Pons

Authorized for release by:

9/2/2022 2:33:24 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Talon/LPE
Project/Site: Amethyst Com

Laboratory Job ID: 890-2859-1
SDG: 702520.031.01

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Definitions/Glossary

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Job ID: 890-2859-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2859-1

Receipt

The samples were received on 8/29/2022 3:06 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 25.6°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33380/2-A) and (LCSD 880-33380/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW 5 (890-2859-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Client Sample ID: SW 5

Lab Sample ID: 890-2859-1

Date Collected: 08/29/22 11:30

Matrix: Solid

Date Received: 08/29/22 15:06

Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/31/22 14:40	09/02/22 01:24	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/31/22 14:40	09/02/22 01:24	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/31/22 14:40	09/02/22 01:24	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/31/22 14:40	09/02/22 01:24	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/31/22 14:40	09/02/22 01:24	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/31/22 14:40	09/02/22 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	08/31/22 14:40	09/02/22 01:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/31/22 14:40	09/02/22 01:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.8	J	49.9	15.0	mg/Kg			09/01/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		08/31/22 14:56	09/01/22 01:33	1
Diesel Range Organics (Over C10-C28)	18.8	J	49.9	15.0	mg/Kg		08/31/22 14:56	09/01/22 01:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/31/22 14:56	09/01/22 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	08/31/22 14:56	09/01/22 01:33	1
o-Terphenyl	126		70 - 130	08/31/22 14:56	09/01/22 01:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		4.99	0.857	mg/Kg			09/01/22 00:17	1

Client Sample ID: SW 6

Lab Sample ID: 890-2859-2

Date Collected: 08/29/22 11:35

Matrix: Solid

Date Received: 08/29/22 15:06

Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/31/22 14:40	09/02/22 01:45	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/31/22 14:40	09/02/22 01:45	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/31/22 14:40	09/02/22 01:45	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/31/22 14:40	09/02/22 01:45	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/31/22 14:40	09/02/22 01:45	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/31/22 14:40	09/02/22 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/31/22 14:40	09/02/22 01:45	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Client Sample ID: SW 6

Lab Sample ID: 890-2859-2

Date Collected: 08/29/22 11:35

Matrix: Solid

Date Received: 08/29/22 15:06

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	08/31/22 14:40	09/02/22 01:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.7	J	50.0	15.0	mg/Kg			09/01/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		08/31/22 14:56	09/01/22 01:54	1
Diesel Range Organics (Over C10-C28)	25.7	J	50.0	15.0	mg/Kg		08/31/22 14:56	09/01/22 01:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/31/22 14:56	09/01/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				08/31/22 14:56	09/01/22 01:54	1
o-Terphenyl	98		70 - 130				08/31/22 14:56	09/01/22 01:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		4.95	0.850	mg/Kg			09/01/22 00:26	1

Client Sample ID: SW 7

Lab Sample ID: 890-2859-3

Date Collected: 08/29/22 11:40

Matrix: Solid

Date Received: 08/29/22 15:06

Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		08/31/22 14:40	09/02/22 02:05	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/31/22 14:40	09/02/22 02:05	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/31/22 14:40	09/02/22 02:05	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/31/22 14:40	09/02/22 02:05	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/31/22 14:40	09/02/22 02:05	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/31/22 14:40	09/02/22 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/31/22 14:40	09/02/22 02:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/31/22 14:40	09/02/22 02:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			09/01/22 10:25	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Amethyst Corn

Job ID: 890-2859-1
SDG: 702520.031.01

Client Sample ID: SW 7
Date Collected: 08/29/22 11:40
Date Received: 08/29/22 15:06
Sample Depth: 4'

Lab Sample ID: 890-2859-3
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		08/31/22 14:56	09/01/22 02:16	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		08/31/22 14:56	09/01/22 02:16	1	
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/31/22 14:56	09/01/22 02:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	104		70 - 130				08/31/22 14:56	09/01/22 02:16	1	
o-Terphenyl	99		70 - 130				08/31/22 14:56	09/01/22 02:16	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	343		4.97	0.853	mg/Kg			09/01/22 00:54	1	

Surrogate Summary

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2859-1	SW 5	91	102
890-2859-2	SW 6	89	98
890-2859-3	SW 7	92	103
LCS 880-33466/1-A	Lab Control Sample	94	99
LCSD 880-33466/2-A	Lab Control Sample Dup	96	101
MB 880-33466/5-A	Method Blank	78	116
Surrogate Legend			
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2859-1	SW 5	137 S1+	126
890-2859-2	SW 6	105	98
890-2859-3	SW 7	104	99
LCS 880-33380/2-A	Lab Control Sample	151 S1+	140 S1+
LCSD 880-33380/3-A	Lab Control Sample Dup	155 S1+	141 S1+
MB 880-33380/1-A	Method Blank	101	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33466/5-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/31/22 14:40	09/01/22 18:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/31/22 14:40	09/01/22 18:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/31/22 14:40	09/01/22 18:00	1

Lab Sample ID: LCS 880-33466/1-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1103		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-33466/2-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1142		mg/Kg		114	70 - 130	4	35
Toluene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2059		mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

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

Lab Sample ID: MB 880-33380/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 33403							Prep Batch: 33380			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		08/30/22 14:56	08/31/22 19:49	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/30/22 14:56	08/31/22 19:49	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/30/22 14:56	08/31/22 19:49	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	101		70 - 130				08/30/22 14:56	08/31/22 19:49	1	
o-Terphenyl	98		70 - 130				08/30/22 14:56	08/31/22 19:49	1	

Lab Sample ID: LCS 880-33380/2-A							Client Sample ID: Lab Control Sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 33403							Prep Batch: 33380			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	808.5		mg/Kg		81	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	899.9		mg/Kg		90	70 - 130			
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
1-Chlorooctane	151	S1+	70 - 130							
o-Terphenyl	140	S1+	70 - 130							

Lab Sample ID: LCSD 880-33380/3-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 33403							Prep Batch: 33380			
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	822.5		mg/Kg		82	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	1000	890.5		mg/Kg		89	70 - 130	1	20	
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1-Chlorooctane	155	S1+	70 - 130							
o-Terphenyl	141	S1+	70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33487/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Soluble			
Analysis Batch: 33488										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.858	U	5.00	0.858	mg/Kg			08/31/22 23:03	1	

QC Sample Results

Client: Talon/LPE
Project/Site: Amethyst Corn

Job ID: 890-2859-1
SDG: 702520.031.01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-33487/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 33488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-33487/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 33488

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Talon/LPE
Project/Site: Amethyst Corn

Job ID: 890-2859-1
SDG: 702520.031.01

GC VOA

Prep Batch: 33466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Total/NA	Solid	5035	
890-2859-2	SW 6	Total/NA	Solid	5035	
890-2859-3	SW 7	Total/NA	Solid	5035	
MB 880-33466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 33557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Total/NA	Solid	8021B	33466
890-2859-2	SW 6	Total/NA	Solid	8021B	33466
890-2859-3	SW 7	Total/NA	Solid	8021B	33466
MB 880-33466/5-A	Method Blank	Total/NA	Solid	8021B	33466
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	8021B	33466
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33466

Analysis Batch: 33642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Total/NA	Solid	Total BTEX	
890-2859-2	SW 6	Total/NA	Solid	Total BTEX	
890-2859-3	SW 7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 33380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Total/NA	Solid	8015NM Prep	
890-2859-2	SW 6	Total/NA	Solid	8015NM Prep	
890-2859-3	SW 7	Total/NA	Solid	8015NM Prep	
MB 880-33380/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33380/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33380/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Total/NA	Solid	8015B NM	33380
890-2859-2	SW 6	Total/NA	Solid	8015B NM	33380
890-2859-3	SW 7	Total/NA	Solid	8015B NM	33380
MB 880-33380/1-A	Method Blank	Total/NA	Solid	8015B NM	33380
LCS 880-33380/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33380
LCSD 880-33380/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33380

Analysis Batch: 33537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Total/NA	Solid	8015 NM	
890-2859-2	SW 6	Total/NA	Solid	8015 NM	
890-2859-3	SW 7	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

HPLC/IC

Leach Batch: 33487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Soluble	Solid	DI Leach	
890-2859-2	SW 6	Soluble	Solid	DI Leach	
890-2859-3	SW 7	Soluble	Solid	DI Leach	
MB 880-33487/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33487/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33487/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 33488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2859-1	SW 5	Soluble	Solid	300.0	33487
890-2859-2	SW 6	Soluble	Solid	300.0	33487
890-2859-3	SW 7	Soluble	Solid	300.0	33487
MB 880-33487/1-A	Method Blank	Soluble	Solid	300.0	33487
LCS 880-33487/2-A	Lab Control Sample	Soluble	Solid	300.0	33487
LCSD 880-33487/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33487

Lab Chronicle

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Client Sample ID: SW 5
Date Collected: 08/29/22 11:30
Date Received: 08/29/22 15:06

Lab Sample ID: 890-2859-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 01:24	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33642	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33537	09/01/22 10:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33380	08/31/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	09/01/22 01:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33487	08/31/22 16:59	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33488	09/01/22 00:17	CH	EET MID

Client Sample ID: SW 6
Date Collected: 08/29/22 11:35
Date Received: 08/29/22 15:06

Lab Sample ID: 890-2859-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 01:45	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33642	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33537	09/01/22 10:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33380	08/31/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	09/01/22 01:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33487	08/31/22 16:59	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33488	09/01/22 00:26	CH	EET MID

Client Sample ID: SW 7
Date Collected: 08/29/22 11:40
Date Received: 08/29/22 15:06

Lab Sample ID: 890-2859-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 02:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33642	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33537	09/01/22 10:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33380	08/31/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	09/01/22 02:16	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33487	08/31/22 16:59	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33488	09/01/22 00:54	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: Amethyst Com

Job ID: 890-2859-1
SDG: 702520.031.01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2859-1	SW 5	Solid	08/29/22 11:30	08/29/22 15:06	4'
890-2859-2	SW 6	Solid	08/29/22 11:35	08/29/22 15:06	4'
890-2859-3	SW 7	Solid	08/29/22 11:40	08/29/22 15:06	4'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No.:

Page ____ of ____
www.xenco.com

Work Order Comments									
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>									
State of Project:									
Reporting: Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>									
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:									

Project Manager:	PLPONS	Bill To: (if different)
Company Name:	ALDOSEP6	Company Name:
Address:	408T-445 Ave	Address:
City, State ZIP:	ALBUQUERQUE NM 88710	City, State ZIP:
	575-744-8768	Email:

Project Name:		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Amethysal Com		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush						None: NO DI Water: H ₂ O	
Project Number:		70520.031.01						Cool: Cool MeOH: Me	
Project Location:		EDDY-						HCL: HC HNO ₃ : HN	
Sampler's Name:		K. Huen						H ₂ SO ₄ : H ₂ NaOH: Na	
PO #:								H ₃ PO ₄ : HP	
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		NaHSO ₄ : NABIS	
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		Tm-007		Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Correction Factor:		-0.2		Zn Acetate+NaOH: Zn	
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Temperature Reading:		25.8		NaOH+Ascorbic Acid: SAPC	
Total Containers:				Corrected Temperature:		26.6			

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Cu	Co	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed																															
TCLP / SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471																															

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 of the client. The client understands and agrees that the client's sample is being submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	[Signature]	[Signature]	8/29/22 1506			
2						
3						
4						
5						
6						

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2859-1

SDG Number: 702520.031.01

Login Number: 2859

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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.	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 <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2859-1

SDG Number: 702520.031.01

Login Number: 2859

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/31/22 11:18 AM

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 <6mm (1/4").	False	

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Talon LPE

Project Name: Amethyst

Work Order: E309066

Job Number: 23042-0001

Received: 9/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/15/23

Chad Hensley
408 W Texas Ave
Artesia, NM 88210



Project Name: Amethyst
Workorder: E309066
Date Received: 9/9/2023 9:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/9/2023 9:00:00AM, under the Project Name: Amethyst.

The analytical test results summarized in this report with the Project Name: Amethyst apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Talon LPE	Project Name:	Amethyst	Reported: 09/15/23 13:20
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-1 9'	E309066-01A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.
C-2 9'	E309066-02A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.
SW-1	E309066-03A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.
SW-2	E309066-04A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.
C-3 9'	E309066-05A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.
C-4 9'	E309066-06A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.
SW-3	E309066-07A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.
SW-4	E309066-08A	Soil	09/08/23	09/09/23	Glass Jar, 2 oz.



Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Amethyst Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 9/15/2023 1:20:20PM
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C-1 9'

E309066-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337008
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	104 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	107 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337008
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	104 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	107 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337076
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane	94.8 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337042
Chloride	374	20.0	1	09/12/23	09/13/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
9/15/2023 1:20:20PM

C-2 9'

E309066-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		111 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		108 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		111 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		108 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337076	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		96.6 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2337042	
Chloride	337	20.0	1	09/12/23	09/13/23	



Sample Data

Talon LPE	Project Name:	Amethyst	Reported: 9/15/2023 1:20:20PM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

SW-1

E309066-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		106 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		106 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337076	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		95.3 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2337042	
Chloride	119	20.0	1	09/12/23	09/13/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
9/15/2023 1:20:20PM

SW-2

E309066-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		107 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		107 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337076	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		96.4 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2337042	
Chloride	121	20.0	1	09/12/23	09/13/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
9/15/2023 1:20:20PM

C-3 9'

E309066-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		107 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		107 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337076	
Diesel Range Organics (C10-C28)	28.8	25.0	1	09/14/23	09/15/23	
Oil Range Organics (C28-C36)	87.3	50.0	1	09/14/23	09/15/23	
Surrogate: n-Nonane		97.9 %	50-200	09/14/23	09/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2337042	
Chloride	449	20.0	1	09/12/23	09/13/23	



Sample Data

Talon LPE	Project Name:	Amethyst	Reported: 9/15/2023 1:20:20PM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

C-4 9'

E309066-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		104 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		107 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		104 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		107 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337076	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		96.8 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2337042	
Chloride	604	20.0	1	09/12/23	09/13/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
9/15/2023 1:20:20PM

SW-3

E309066-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	102 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	106 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	102 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	106 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337076	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane	95.1 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2337042	
Chloride	ND	20.0	1	09/12/23	09/13/23	



Sample Data

Talon LPE	Project Name:	Amethyst	Reported: 9/15/2023 1:20:20PM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

SW-4

E309066-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		106 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		106 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337076	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		97.8 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2337042	
Chloride	ND	20.0	1	09/12/23	09/13/23	



QC Summary Data

Talon LPE	Project Name:	Amethyst	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/15/2023 1:20:20PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2337008-BLK1) Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

LCS (2337008-BS1) Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	2.59	0.0250	2.50		104	70-130			
Ethylbenzene	2.51	0.0250	2.50		101	70-130			
Toluene	2.57	0.0250	2.50		103	70-130			
o-Xylene	2.69	0.0250	2.50		107	70-130			
p,m-Xylene	5.29	0.0500	5.00		106	70-130			
Total Xylenes	7.98	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike (2337008-MS1) Source: E309066-07 Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.19	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike Dup (2337008-MSD1) Source: E309066-07 Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	2.52	0.0250	2.50	ND	101	48-131	2.37	23	
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135	0.821	27	
Toluene	2.64	0.0250	2.50	ND	105	48-130	0.972	24	
o-Xylene	2.79	0.0250	2.50	ND	112	43-135	5.98	27	
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135	4.94	27	
Total Xylenes	8.24	0.0250	7.50	ND	110	43-135	5.29	27	
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Talon LPE	Project Name:	Amethyst	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/15/2023 1:20:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2337008-BLK1) Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

LCS (2337008-BS2) Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

Matrix Spike (2337008-MS2) Source: E309066-07 Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

Matrix Spike Dup (2337008-MSD2) Source: E309066-07 Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	0.196	20	
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			



QC Summary Data

Talon LPE	Project Name:	Amethyst	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/15/2023 1:20:20PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337076-BLK1)					Prepared: 09/14/23 Analyzed: 09/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2337076-BS1)					Prepared: 09/14/23 Analyzed: 09/14/23				
Diesel Range Organics (C10-C28)	242	25.0	250		96.7	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike (2337076-MS1)					Source: E309066-02		Prepared: 09/14/23 Analyzed: 09/14/23		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	44.7		50.0		89.3	50-200			

Matrix Spike Dup (2337076-MSD1)					Source: E309066-02		Prepared: 09/14/23 Analyzed: 09/14/23		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	1.91	20	
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			



QC Summary Data

Talon LPE	Project Name:	Amethyst	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/15/2023 1:20:20PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337042-BLK1)					Prepared: 09/12/23 Analyzed: 09/13/23				
Chloride	ND	20.0							
LCS (2337042-BS1)					Prepared: 09/12/23 Analyzed: 09/13/23				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2337042-MS1)					Source: E309065-01		Prepared: 09/12/23 Analyzed: 09/13/23		
Chloride	1900	100	250	1560	136	80-120			M4
Matrix Spike Dup (2337042-MSD1)					Source: E309065-01		Prepared: 09/12/23 Analyzed: 09/13/23		
Chloride	1940	100	250	1560	152	80-120	2.02	20	M4

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Talon LPE	Project Name:	Amethyst	
408 W Texas Ave	Project Number:	23042-0001	Reported:
Artesia NM, 88210	Project Manager:	Chad Hensley	09/15/23 13:20

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

[illegible]

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 9-8-23	Time 6:00	Received by: (Signature) <i>[Signature]</i>	Date 9-8-23	Time 1800	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-8-23	Time 1820	Received by: (Signature) <i>[Signature]</i>	Date 9-8-23	Time 1820	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-9-23	Time 2415	Received by: (Signature) <i>[Signature]</i>	Date 9-9-23	Time 900	AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 9/11/2023 12:51:14PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Talon LPE	Date Received:	09/09/23 09:00	Work Order ID:	E309066
Phone:	(575) 746-8768	Date Logged In:	09/09/23 10:57	Logged In By:	Alexa Michaels
Email:	chensley@talonlpe.com	Due Date:	09/15/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Talon LPE

Project Name: Amethyst State Com #1

Work Order: E309143

Job Number: 23042-0001

Received: 9/20/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/22/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/22/23

Chad Hensley
408 W Texas Ave
Artesia, NM 88210



Project Name: Amethyst State Com #1
Workorder: E309143
Date Received: 9/20/2023 8:15:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/20/2023 8:15:00AM, under the Project Name: Amethyst State Com #1.

The analytical test results summarized in this report with the Project Name: Amethyst State Com #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Raina Schwanz
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Sample Summary

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	09/22/23 14:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-3 9'	E309143-01A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
C-4 9'	E309143-02A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.



Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Amethyst State Com #1 Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 9/22/2023 2:07:08PM
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C-3 9'

E309143-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2338060	
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		09/20/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2338060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		09/20/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2338064	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane	74.6 %	50-200		09/20/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338076	
Chloride	165	20.0	1	09/21/23	09/22/23	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 9/22/2023 2:07:08PM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

C-4 9'

E309143-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2338060	
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		09/20/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2338060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		09/20/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2338064	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
<i>Surrogate: n-Nonane</i>						
	83.4 %	50-200		09/20/23	09/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338076	
Chloride	172	20.0	1	09/21/23	09/22/23	



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/22/2023 2:07:08PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2338060-BLK1) Prepared: 09/20/23 Analyzed: 09/21/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

LCS (2338060-BS1) Prepared: 09/20/23 Analyzed: 09/21/23

Benzene	4.36	0.0250	5.00		87.2	70-130			
Ethylbenzene	4.27	0.0250	5.00		85.5	70-130			
Toluene	4.34	0.0250	5.00		86.8	70-130			
o-Xylene	4.33	0.0250	5.00		86.5	70-130			
p,m-Xylene	8.73	0.0500	10.0		87.3	70-130			
Total Xylenes	13.1	0.0250	15.0		87.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike (2338060-MS1) Source: E309143-01 Prepared: 09/20/23 Analyzed: 09/21/23

Benzene	4.58	0.0250	5.00	ND	91.6	54-133			
Ethylbenzene	4.49	0.0250	5.00	ND	89.8	61-133			
Toluene	4.55	0.0250	5.00	ND	90.9	61-130			
o-Xylene	4.51	0.0250	5.00	ND	90.2	63-131			
p,m-Xylene	9.14	0.0500	10.0	ND	91.4	63-131			
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2338060-MSD1) Source: E309143-01 Prepared: 09/20/23 Analyzed: 09/21/23

Benzene	4.80	0.0250	5.00	ND	95.9	54-133	4.65	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.8	61-133	4.43	20	
Toluene	4.76	0.0250	5.00	ND	95.1	61-130	4.51	20	
o-Xylene	4.71	0.0250	5.00	ND	94.3	63-131	4.36	20	
p,m-Xylene	9.56	0.0500	10.0	ND	95.6	63-131	4.46	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131	4.43	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/22/2023 2:07:08PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338060-BLK1) Prepared: 09/20/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			

LCS (2338060-BS2) Prepared: 09/20/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

Matrix Spike (2338060-MS2) Source: E309143-01 Prepared: 09/20/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2338060-MSD2) Source: E309143-01 Prepared: 09/20/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	0.550	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/22/2023 2:07:08PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338064-BLK1)					Prepared: 09/20/23 Analyzed: 09/20/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.6	50-200			

LCS (2338064-BS1)					Prepared: 09/20/23 Analyzed: 09/20/23				
Diesel Range Organics (C10-C28)	247	25.0	250		98.8	38-132			
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

Matrix Spike (2338064-MS1)					Source: E309143-01		Prepared: 09/20/23 Analyzed: 09/20/23		
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	37.6		50.0		75.1	50-200			

Matrix Spike Dup (2338064-MSD1)					Source: E309143-01		Prepared: 09/20/23 Analyzed: 09/20/23		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	0.590	20	
Surrogate: n-Nonane	39.6		50.0		79.2	50-200			



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/22/2023 2:07:08PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2338076-BLK1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	ND	20.0							
LCS (2338076-BS1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2338076-MS1)					Source: E309142-01		Prepared: 09/21/23 Analyzed: 09/22/23		
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2338076-MSD1)					Source: E309142-01		Prepared: 09/21/23 Analyzed: 09/22/23		
Chloride	278	20.0	250	ND	111	80-120	2.18	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Talon LPE	Project Name:	Amethyst State Com #1	
408 W Texas Ave	Project Number:	23042-0001	Reported:
Artesia NM, 88210	Project Manager:	Chad Hensley	09/22/23 14:07

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Envirotech Analytical Laboratory

Printed: 9/20/2023 10:26:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Talon LPE	Date Received:	09/20/23 08:15	Work Order ID:	E309143
Phone:	(575) 746-8768	Date Logged In:	09/19/23 17:21	Logged In By:	Caitlin Mars
Email:	chensley@talonlpe.com	Due Date:	09/26/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Talon LPE

Project Name: Amethyst State Com #1

Work Order: E404006

Job Number: 23042-0001

Received: 4/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/8/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/8/24

Chad Hensley
408 W Texas Ave
Artesia, NM 88210



Project Name: Amethyst State Com #1
Workorder: E404006
Date Received: 4/2/2024 9:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/2/2024 9:00:00AM, under the Project Name: Amethyst State Com #1.

The analytical test results summarized in this report with the Project Name: Amethyst State Com #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Chain of Custody etc.

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Sample Summary

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	04/08/24 09:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG-1 @SURFACE	E404006-01A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
BG-2 @SURFACE	E404006-02A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
BG-3 @SURFACE	E404006-03A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
BG-4 @SURFACE	E404006-04A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
BG-5 @SURFACE	E404006-05A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
BG-6 @SURFACE	E404006-06A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
BG-7 @SURFACE	E404006-07A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
BG-8 @SURFACE	E404006-08A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
SW-5	E404006-09A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
SW-6	E404006-10A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
SW-7	E404006-11A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
SW-8	E404006-12A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
C-5 @ 6'	E404006-13A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.
C-6 @6'	E404006-14A	Soil	04/01/24	04/02/24	Glass Jar, 2 oz.



Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Amethyst State Com #1 Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 4/8/2024 9:04:18AM
---	--	---------------------------------

BG-1 @SURFACE

E404006-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
Surrogate: n-Nonane	88.0 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	172	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst State Com #1
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
4/8/2024 9:04:18AM

BG-2 @SURFACE

E404006-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	86.8 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	174	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

BG-3 @SURFACE
E404006-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
Surrogate: n-Nonane	87.5 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	163	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst State Com #1
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
4/8/2024 9:04:18AM

BG-4 @SURFACE

E404006-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	87.2 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	182	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst State Com #1
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
4/8/2024 9:04:18AM

BG-5 @SURFACE

E404006-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	83.7 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	181	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

BG-6 @SURFACE
E404006-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
Surrogate: n-Nonane	86.8 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	141	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

BG-7 @SURFACE
E404006-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
Surrogate: n-Nonane	86.6 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	186	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst State Com #1
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
4/8/2024 9:04:18AM

BG-8 @SURFACE

E404006-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	180	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Amethyst State Com #1
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
4/8/2024 9:04:18AM

SW-5

E404006-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	83.1 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	160	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

SW-6

E404006-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
Surrogate: n-Nonane	82.9 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	174	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

SW-7

E404006-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	80.4 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	152	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

SW-8

E404006-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
Surrogate: n-Nonane	87.8 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	161	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

C-5 @ 6'

E404006-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	83.4 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	175	20.0	1	04/02/24	04/02/24	



Sample Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported: 4/8/2024 9:04:18AM
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

C-6 @6'

E404006-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Benzene	ND	0.0250	1	04/02/24	04/03/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/03/24	
Toluene	ND	0.0250	1	04/02/24	04/03/24	
o-Xylene	ND	0.0250	1	04/02/24	04/03/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/03/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2414015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.9 %	70-130		04/02/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414035	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/03/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/03/24	04/04/24	
Surrogate: n-Nonane	84.7 %	50-200		04/03/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2414025	
Chloride	177	20.0	1	04/02/24	04/02/24	



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	4/8/2024 9:04:18AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2414015-BLK1) Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2414015-BS1) Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	5.60	0.0250	5.00		112	70-130			
Ethylbenzene	5.43	0.0250	5.00		109	70-130			
Toluene	5.59	0.0250	5.00		112	70-130			
o-Xylene	5.50	0.0250	5.00		110	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2414015-MS1) Source: E404006-03 Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133			
Toluene	5.03	0.0250	5.00	ND	101	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

Matrix Spike Dup (2414015-MSD1) Source: E404006-03 Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	5.37	0.0250	5.00	ND	107	54-133	6.13	20	
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133	6.39	20	
Toluene	5.36	0.0250	5.00	ND	107	61-130	6.27	20	
o-Xylene	5.28	0.0250	5.00	ND	106	63-131	6.43	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	6.22	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	6.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	4/8/2024 9:04:18AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2414015-BLK1) Prepared: 04/02/24 Analyzed: 04/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2414015-BS2) Prepared: 04/02/24 Analyzed: 04/03/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			

Matrix Spike (2414015-MS2) Source: E404006-03 Prepared: 04/02/24 Analyzed: 04/03/24

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			

Matrix Spike Dup (2414015-MSD2) Source: E404006-03 Prepared: 04/02/24 Analyzed: 04/03/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130	3.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	4/8/2024 9:04:18AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2414035-BLK1) Prepared: 04/03/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			

LCS (2414035-BS1) Prepared: 04/03/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132			
Surrogate: n-Nonane	44.5		50.0		89.1	50-200			

Matrix Spike (2414035-MS1) Source: E404006-04 Prepared: 04/03/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132			
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			

Matrix Spike Dup (2414035-MSD1) Source: E404006-04 Prepared: 04/03/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	38-132	4.22	20	
Surrogate: n-Nonane	44.5		50.0		89.1	50-200			



QC Summary Data

Talon LPE	Project Name:	Amethyst State Com #1	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	4/8/2024 9:04:18AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2414025-BLK1)					Prepared: 04/02/24 Analyzed: 04/02/24				
Chloride	ND	20.0							
LCS (2414025-BS1)					Prepared: 04/02/24 Analyzed: 04/02/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2414025-MS1)					Source: E404006-06		Prepared: 04/02/24 Analyzed: 04/02/24		
Chloride	401	20.0	250	141	104	80-120			
Matrix Spike Dup (2414025-MSD1)					Source: E404006-06		Prepared: 04/02/24 Analyzed: 04/02/24		
Chloride	402	20.0	250	141	104	80-120	0.149	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Talon LPE	Project Name:	Amethyst State Com #1	
408 W Texas Ave	Project Number:	23042-0001	Reported:
Artesia NM, 88210	Project Manager:	Chad Hensley	04/08/24 09:04

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 2

Client: Talon LPE				Bill To				Lab Use Only				TAT				EPA Program																	
Project: Amethyst state com 1				Attention: TalonLpe				Lab WO# E4040006				Job Number 23042-0001				1D		2D		3D		Standard x		CWA		SDWA							
Project Manager: C. Hensley				Address:				Analysis and Method												RCRA		State		NM		CO		UT		AZ		TX	
Address: 408 W. Texas Ave				City, State, Zip																													
City, State, Zip Artesia, NM 88210				Phone:				TPH GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		GDGC TX		Remarks		X		X							
Phone: 575-746-8768				Email:				TPH GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		GDGC TX		Remarks		X		X							
Email: chensley@talonlpe.com				Report due by:				TPH GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		GDGC TX		Remarks		X		X							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																												
1015	4/1/24	soil	1	BG-1 @SURFACE	1																												
1020				BG-2 @ SURFACE	2																												
1028				BG-3 @SURFACE	3																												
1033				BG-4 @ SURFACE	4																												
1041				BG-5 @ SURFACE	5																												
1046				BG-6 @ SURFACE	6																												
1051				BG-7 @ SURFACE	7																												
1059				BG-8 @ SURFACE	8																												
1111				SW-5	9																												
1118				SW-6	10																												
Additional Instructions:																																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only																	
Michelle Cuyk				4-1-24				Michelle Cuyk				4-1-24		1418		Received on ice: 0/ N																	
Michelle Cuyk				4-1-24		1615		Michelle Cuyk				4-2-24		9:00		T1 T2 T3																	
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C 4																	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																	



Envirotech Analytical Laboratory

Printed: 4/2/2024 12:46:44PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Talon LPE	Date Received:	04/02/24 09:00	Work Order ID:	E404006
Phone:	(575) 746-8768	Date Logged In:	04/01/24 16:21	Logged In By:	Alexa Michaels
Email:	chensley@talonlpe.com	Due Date:	04/08/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 03, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMETHYST STATE COM #001

Enclosed are the results of analyses for samples received by the laboratory on 03/29/23 13:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 14 A @ 4' (H231437-01)

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	03/30/2023	ND	2.02	101	2.00	4.69		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80		
Total BTEX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 14 A @ 5' (H231437-02)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 16 A @ 4' (H231437-03)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	55.9	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	19.3	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 16 A @ 5' (H231437-04)

BTX 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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 17 A @ 4' (H231437-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	2.02	101	2.00	4.69		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80		
Total BTEX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 17 A @ 5' (H231437-06)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 18 A @ 4' (H231437-07)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 18 A @ 5' (H231437-08)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 19 A @ 4' (H231437-09)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 19 A @ 5' (H231437-10)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 20 A @ 4' (H231437-11)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 20 A @ 5' (H231437-12)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 21 A @ 4' (H231437-13)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	211	106	200	4.91	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	202	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 21 A @ 5' (H231437-14)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 22 A @ 4' (H231437-15)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 22 A @ 5' (H231437-16)

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	03/30/2023	ND	2.02	101	2.00	4.69		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 51 A @ 4' (H231437-17)

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	03/30/2023	ND	2.02	101	2.00	4.69		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80		
Total BTEX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 51 A @ 5' (H231437-18)

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	03/30/2023	ND	2.02	101	2.00	4.69		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 57 A @ 4' (H231437-19)

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	03/30/2023	ND	2.02	101	2.00	4.69	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	4.41	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.05	102	2.00	5.51	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.34	106	6.00	3.80	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 57 A @ 5' (H231437-20)

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	03/31/2023	ND	2.12	106	2.00	10.2		
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2		
Total BTEX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 59 A @ 4' (H231437-21)

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	03/31/2023	ND	2.12	106	2.00	10.2		
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2		
Total BTEX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 59 A @ 5' (H231437-22)

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	03/31/2023	ND	2.12	106	2.00	10.2		
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2		
Total BTEX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 43 A @ 4' (H231437-23)

BTX 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	03/31/2023	ND	2.12	106	2.00	10.2		
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2		
Total BTX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05		
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND						

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/29/2023
Reported: 04/03/2023
Project Name: AMETHYST STATE COM #001
Project Number: 702520.031.01
Project Location: MATADOR - EDDY COUNTY, NM

Sampling Date: 03/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 43 A @ 5' (H231437-24)

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	03/31/2023	ND	2.12	106	2.00	10.2		
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2		
Total BTEX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/31/2023	ND	416	104	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	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



1043

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST																																									
Project Manager: Chad Hensley		P.O. #:																																											
Address: 408 W. Texas Ave		Company:																																											
City: Artesia		Attn:																																											
Phone #: 575.746.8768		Address:																																											
Fax #: 575.746.8768		City:																																											
Project #: 702520.031.01		State:																																											
Project Name: Amethyst State Com #1		Zip:																																											
Project Location: Eddy County, NM		Phone #:																																											
Sample Name: Chad Hensley		Fax #:																																											
FOR LAB USE ONLY																																													
Lab I.D. H231437		Sample I.D. 3-211 in feet		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CL		BTX		TPH											
1 S-14A@4		C		1																						3/23/23		11:28																	
2 S-14A@5		C		1																						11:33																			
3 S-16A@4		C		1																						11:41																			
4 S-16A@5		C		1																						11:43																			
5 S-17A@4		C		1																						11:46																			
6 S-17A@5		C		1																						11:53																			
7 S-18A@4		C		1																						11:55																			
8 S-18A@5		C		1																						11:59																			
9 S-19A@4		C		1																						12:03																			
10 S-19A@5		C		1																						12:07																			
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Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		#1/3		Cool		Intact		Yes		No		Yes		No		Add'l Phone #:		Add'l Fax #:																									

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



2063

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE

Project Manager: Chad Hensley

Address: 408 W. Texas Ave

City: Artesia

Phone #: 575.746.8768

State: NM zip: 88210

Project #: 702520.031.01

Fax #:

Project Name: Amethyst State Com #1

Project Location: Eddy County, NM

Sample Name: Chad Hensley

BILL TO

P.O. #:

Company:

Attn:

Address:

City:

State: zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H231437 3/21 in fact

11 S-20A@4

12 S-20A@5

13 S-21A@4

14 S-21A@5

15 S-22A@4

16 S-22A@5

17 S-51a@4

18 S-51A@5

19 S-57A@4

20 S-57A@5

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL

BTEX

TPH

CL

BTEX

TPH

CL

BTEX

TPH

CL

BTEX

TPH

CL

BTEX

TPH

CL

BTEX

TPH

CL

BTEX

TPH

CL

BTEX

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BTEX

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BTEX

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CL

BTEX

TPH

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Relinquished By:

Date: 3/21/23

Time: 1345

Received By:

Signature

Relinquished By:

Date: 3/21/23

Time: 1345

Received By:

Signature

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

0.81/0.21

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☒

CHECKED BY: (Initials)
JF

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3073

Company Name: Talon LPE

Project Manager: Chad Hensley

Address: 408 W. Texas Ave

City: Artesia

Phone #: 575.746.8768

Project #: 702520.031.01

Project Name: Amethyst State Com #1

Project Location: Eddy County, NM

Sampler Name: Chad Hensley

State: NM **zip:** 88210

Attn:

Address:

City:

State: **zip:**

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H231437 = 211 in feet

21 S-59A@4

22 S-59A@5

23 S-434 @ 4

24 S-434 @ 5

P.O. #:

Company:

Address:

City:

State: **zip:**

Phone #:

Fax #:

Relinquished By:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Received By:

Received By:

Sample Condition

CHECKED BY: (Initials)

DATE

TIME

CL

BTEX

TPH

ANALYSIS REQUEST

District I
1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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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

Action 339161

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 339161
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2219263776
Incident Name	NAPP2219263776 AMETHYST STATE COM #001 @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2203340473] Amethyst State Facility Tank Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	AMETHYST STATE COM #001
Date Release Discovered	07/09/2022
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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: Fire Tank (Any) Produced Water Released: 50 BBL Recovered: 50 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Lightning Caused fire. Fluid did not leave the containment.

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QUESTIONS, Page 2

Action 339161

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	339161
	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; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.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 safety hazard that would result in injury.

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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 05/01/2024
--	--

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QUESTIONS, Page 3

Action 339161

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 339161
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
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 contamination 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)	3280
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	758
GRO+DRO	(EPA SW-846 Method 8015M)	514
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	04/01/2024
On what date will (or did) the final sampling or liner inspection occur	04/01/2024
On what date will (or was) the remediation complete(d)	04/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	2389

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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QUESTIONS, Page 4

Action 339161

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	339161
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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.

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 05/01/2024
--	--

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.

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1220 S. St Francis Dr.
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QUESTIONS, Page 5

Action 339161

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 339161
	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

District I

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QUESTIONS, Page 6

Action 339161

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	339161
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	327417
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/01/2024
What was the (estimated) number of samples that were to be gathered	14
What was the sampling surface area in square feet	400

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	400
What was the total volume (cubic yards) remediated	2389
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	n/a

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.

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 05/01/2024
--	--

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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

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Action 339161

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 339161
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

District I

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CONDITIONS

Action 339161

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 339161
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Reclamation and revegetation will need to be completed as soon as practicable. A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	5/7/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/7/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	5/7/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	5/7/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	5/7/2024
bhall	Numerous confirmation samples listed on the table did not have two-business day notifications. Sampling notifications included in the report and the C-141 were for 8/19/2022 and 4/1/2024.	5/7/2024
bhall	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	5/7/2024