



December 1, 2023

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Deferral Request
East Vacuum Grayburg – San Andreas Unit (EVGSAU) Satellite 5
Incident Number NAPP2213957732
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared the following *Deferral Request* as a follow-up to the *Remediation Work Plan Addendum (Work Plan)* submitted to the New Mexico Oil Conservation Division (NMOCD) on February 24, 2023, and approved by NMOCD on March 7, 2023. This *Deferral Request* documents site assessment, excavation, and soil sampling activities performed at the East Vacuum Grayburg – San Andreas Unit (EVGSAU) Satellite 5 (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil and produced water release at the Site. Based on the remediation activities completed as outlined in the approved *Work Plan*, Maverick is submitting this *Deferral Request*, describing remediation that has occurred and requesting deferral of final remediation for Incident Number NAPP2213957732 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 26, Township 17 South, Range 35 East, in Lea County, New Mexico (32.806667°, -103.431389° W) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO).

On May 5, 2022, a transfer pump leak resulted in the release of approximately 17.4 barrels (bbls) of produced water and 0.9 bbls of crude oil onto the well pad within a congested area of active surface and subsurface production equipment and pipelines. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 2 bbls of produced water were recovered. The previous operator, ConocoPhillips Company, reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on May 19, 2022. The release was assigned Incident Number NAPP2213957732.

Since the release remained on the active well pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release. The release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 of the New Mexico Administrative Code (NMAC).

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SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-04881, located approximately 0.4 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 50 feet bgs and a total depth of 137 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 2,220 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

INITIAL SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Assessment soil samples SS01 through SS03 were collected within the release extent at a depth of 0.5 feet bgs, to assess the surficial soil within the release. Assessment soil samples SS04 through SS08 were collected around the release extent at a depth of 0.5 feet bgs, to confirm the lateral extent of the surface release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The visible release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0 or Standard Method SM 4500.

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Laboratory analytical results for assessment soil samples SS02, SS03, and SS07 indicated chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS01, SS04 through SS06, and SS08 indicated all COC concentrations were compliant with the Site Closure Criteria and defined the lateral extent of the surface release. Based on visible staining in the release area and laboratory analytical results for assessment soil samples SS01, SS02, and SS07, delineation activities were conducted.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

As detailed in the approved *Work Plan*, Ensolum personnel were at the Site on January 9, 2023, to oversee delineation activities. Two boreholes (BH01 and BH02) were advanced via hand auger until refusal at approximately 2 feet below ground surface (bgs); borehole BH01 was advanced within the release extent and borehole BH02 was advanced south of the release extent. Additionally, three potholes (PH01 through PH03) were advanced within the release extent via backhoe until equipment refusal at approximately 4 feet bgs. Soil from the boreholes and potholes was field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Delineation soil samples were collected from the boreholes and potholes at depths ranging from 1-foot to 4 feet bgs. The delineation soil sample locations were mapped using a GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for delineation soil samples collected from borehole BH01 and potholes PH01 through PH03 indicated chloride concentrations exceeded the Site Closure Criteria at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results for delineation soil samples collected from borehole BH02, advanced south of the release extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the delineation soil sample analytical results, a *Work Plan* was submitted to the NMOCD proposing additional delineation activities and excavation of impacted soil to the extent possible around the active production equipment. The *Work Plan* was approved by the NMOCD on March 7, 2023.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

During October 2023, Ensolum Personnel returned to the Site to oversee excavation activities, as outlined in the approved *Work Plan*. Impacted soil was excavated from the release area to the maximum extent possible around the active production equipment and high-pressure gas lines. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 0.75 feet to 4.5 feet bgs. The excavation was completed with an excavator, hydrovac, and hand shovels to remove as much impacted soil as possible. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil to the extent possible, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS18 were collected from the floor of the excavation at depths ranging from 0.75 feet to 4.5 feet bgs. Composite soil samples SW01 through SW15 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4.5 feet bgs. Sidewall samples SW01 through SW07 were collected from the interior excavation sidewalls beneath/adjacent to active production equipment, to characterize the impacted soil being left in place where remediation would require a major facility deconstruction. Sidewall samples SW08 through SW15 were collected from the exterior sidewalls of the final excavation extent to confirm the lateral extent. The excavation soil samples were handled and analyzed following

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the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

Laboratory analytical results for excavation sidewall samples SW01 through SW07, collected beneath/adjacent to active production equipment, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for excavation floor samples FS01 through FS18 and excavation sidewall samples SW08 through SW15, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed lateral and vertical excavation of the impacted soil. Based on the laboratory analytical results, impacted soil remains in place immediately beneath or adjacent to active production equipment in the areas represented by sidewall samples SW01 through SW07. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

ADDITIONAL DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On October 6, 2023, additional delineation activities were conducted at the Site to fully delineate the impacted soil left in place beneath or adjacent to active production equipment. As outlined in the approved *Work Plan*, potholes were advanced at the locations of borehole BH01 and potholes PH01 and PH03 to vertically delineate the impacted soil to below the Site Closure Criteria. Six additional potholes (PH04 through PH09) were advanced around the release extent to further confirm the lateral extent of impacted soil left in-place. The potholes were advanced to depths ranging from 2.5 feet to 4.5 feet bgs. Soil from the potholes was field screened at 1-foot intervals for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Delineation soil samples were collected from the potholes at depths ranging from 1-foot to 4.5 feet bgs. The delineation soil sample locations were mapped using a GPS unit and are depicted on Figure 2 and Figure 4. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for the vertical delineation samples collected from borehole BH01 and potholes PH01 and PH03 and lateral delineation samples collected from potholes PH04 through PH09 indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed the lateral and vertical extent of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

DEFERRAL REQUEST

A total of 320 cubic yards of impacted soil were excavated from the Site; however, residual impacted soil was left in place within two feet of active production equipment and high-pressure gas lines where remediation would require a major facility deconstruction. Laboratory analytical results for excavation sidewall samples SW01 through SW07 indicated that soil with TPH and/or chloride concentrations exceeding the Site Closure Criteria was left in place within two feet of active production equipment and high-pressure gas lines. An estimated 140 cubic yards of impacted soil remain in place beneath the active production equipment and gas lines, assuming a maximum 4-foot depth based on excavation floor samples FS01 through FS18 and delineation samples BH01@2.5', PH01@3', PH02@4', and PH03@4.5' that were compliant with the Site Closure Criteria.

The impacted soil remaining in place is delineated vertically by excavation floor soil samples FS01 through FS18 and delineation samples BH01@2.5', PH01@3', PH02@4', and PH03@4.5'. The impacted soil remaining in place is delineated laterally by excavation sidewall soil samples SW08 through SW15 and delineation soil samples from borehole BH02 and potholes PH04 through PH09. The deferral request areas and delineation samples are presented on Figure 4.

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Maverick is requesting to complete final remediation during any major future well pad construction/alteration or final plugging and abandonment, whichever occurs first. Ensolum and Maverick do not believe deferral will result in imminent risk to human health, the environment, or groundwater. The free-standing fluids were recovered during initial response activities, impacted soil was excavated to the extent possible, and no saturated soil remains in place.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Maverick requests deferral of final remediation for Incident Number NAPP2213957732. NMOCD notifications are provided in Appendix E and the Form C-141 is included in Appendix F.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in black ink that reads "Julianna Falcomata".

Julianna Falcomata
Staff Geologist

A handwritten signature in black ink that reads "Aimee Cole".

Aimee Cole
Senior Managing Scientist

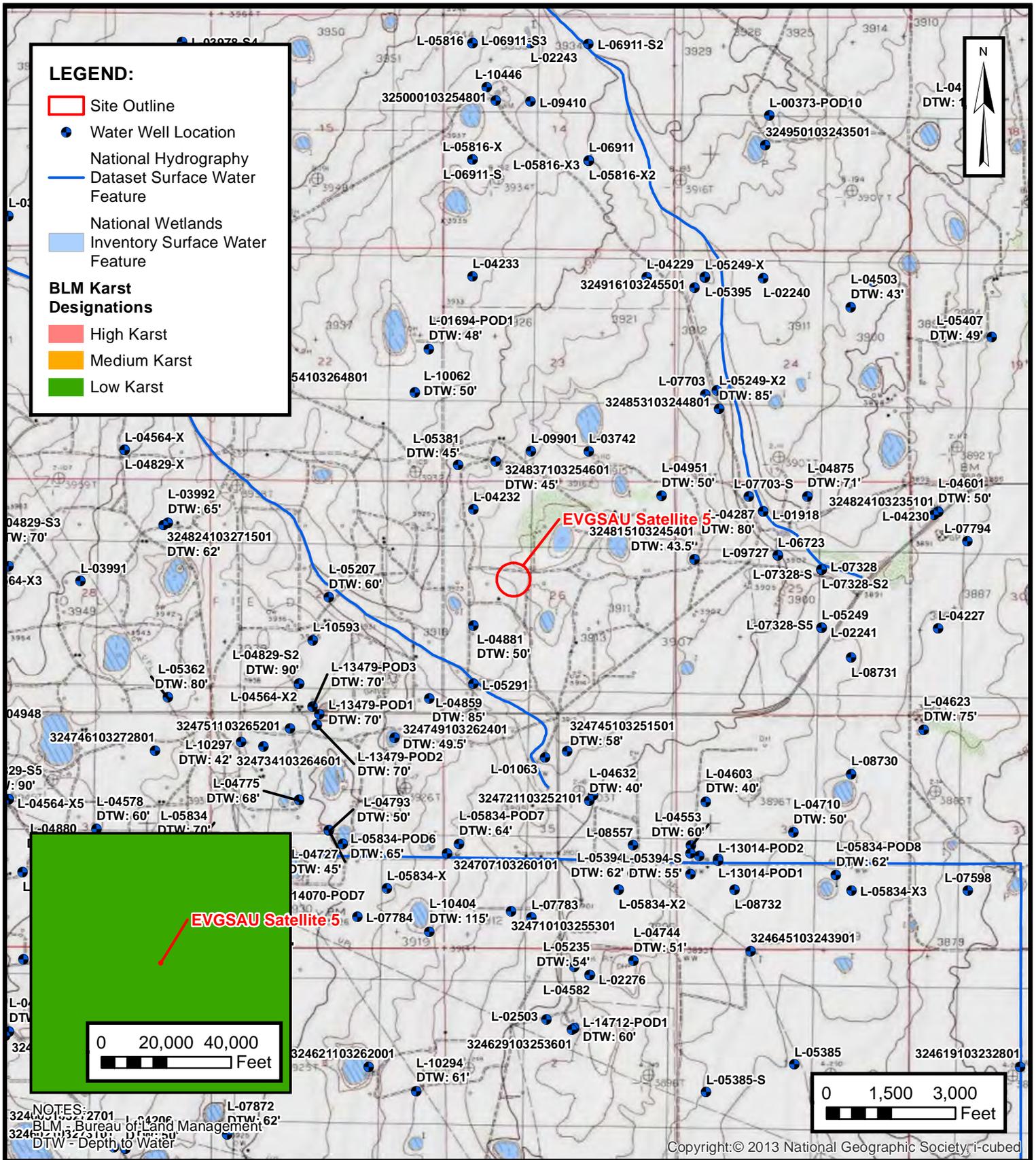
cc: Bryce Wagoner, Maverick Natural Resources
New Mexico State Land Office

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Figure 4 Deferral Request Areas
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Lithologic Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications
- Appendix F Final C-141



FIGURES

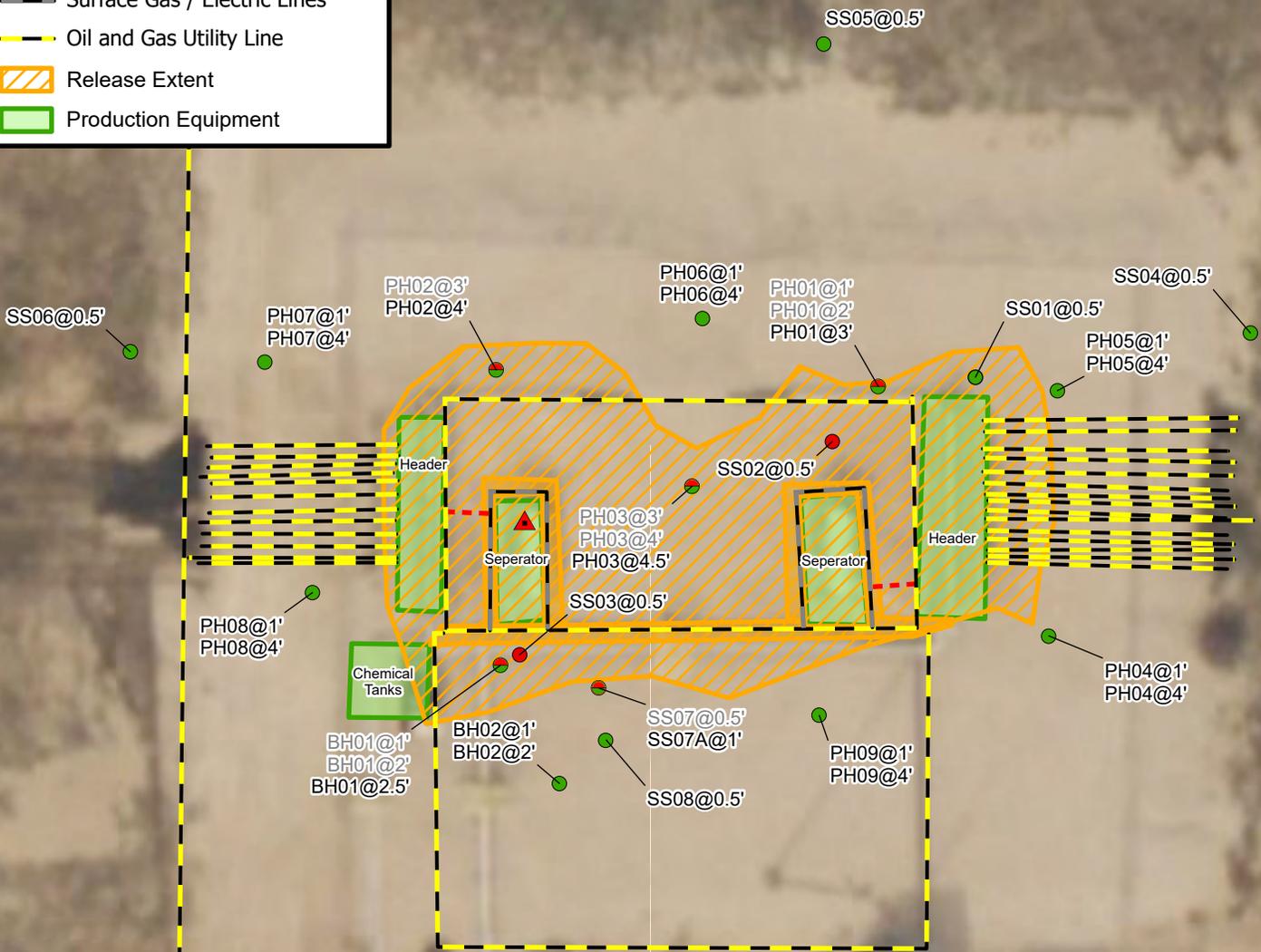


SITE RECEPTOR MAP
 MAVERICK NATURAL RESOURCES, LLC
 EVGSAU SATELLITE 5
 NAPP2213957732
 Unit F, Sec 26, T17S, R35E
 Lea County, New Mexico

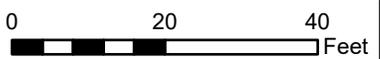
FIGURE
1

Legend

- Soil Sample in Compliance with NMOCD Closure Criteria
- Terminus Soil Sample Compliant with NMOCD Closure Criteria
- Soil Sample Exceeding NMOCD Closure Criteria
- Electric Utility Line
- Surface Gas / Electric Lines
- Oil and Gas Utility Line
- Release Extent
- Production Equipment



Notes:
 Sample ID @ Depth Below Ground Surface
 Grey text represents samples that have been excavated



Source:
 Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

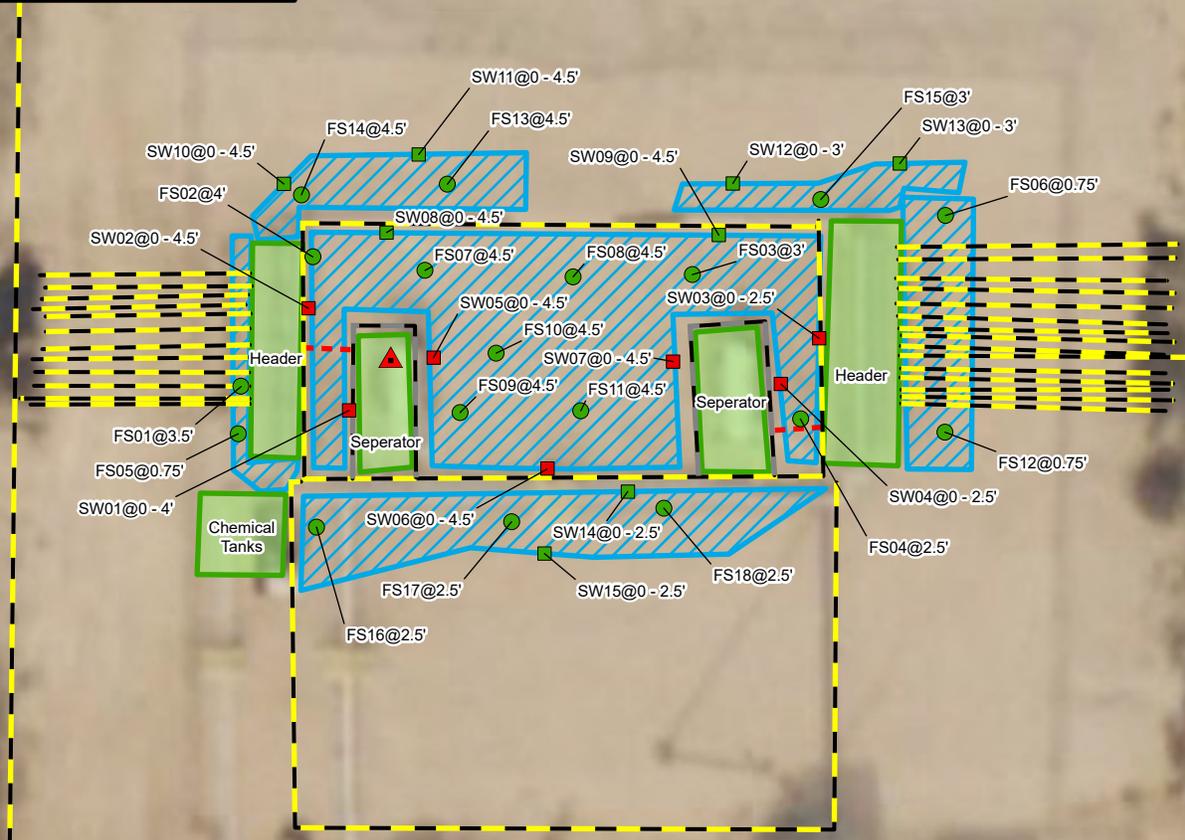
Maverick Permian, LLC
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FIGURE
 2

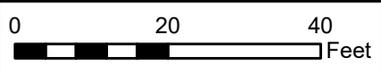


Legend

- ▲ Release Point
- Excavation Floor Sample in Compliance with NMOCD Closure Criteria
- Excavation Sidewall Sample in Compliance with NMOCD Closure Criteria
- Excavation Sidewall Sample Exceeding NMOCD Closure Criteria
- Electric Utility Line
- Surface Gas / Electric Lines
- Oil and Gas Utility Line
- Excavation Extent
- Production Equipment



Notes:
Sample ID @ Depth Below Ground Surface



Source:
Environmental Systems Research Institute (ESRI)

Excavation Soil Sample Locations

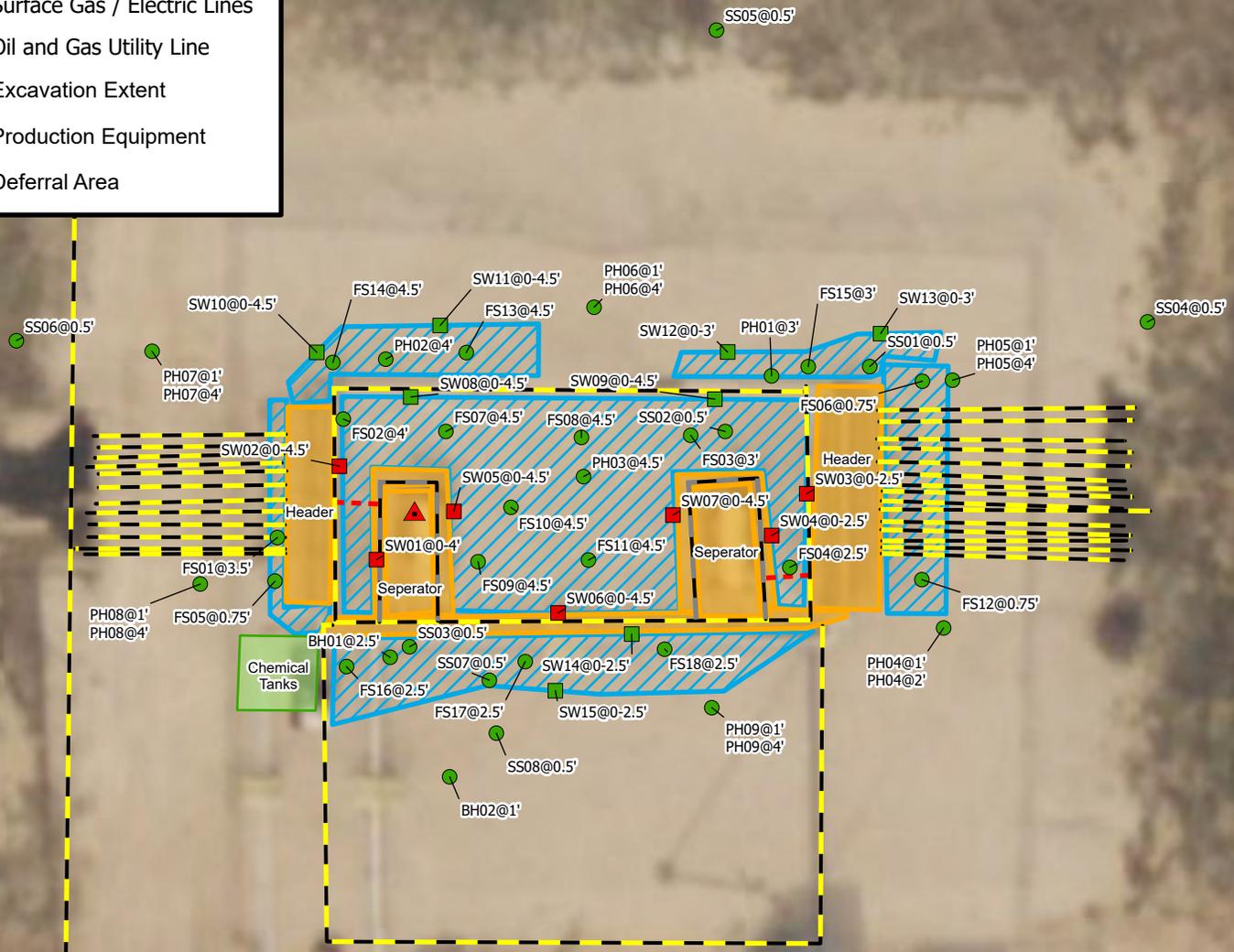


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FIGURE
3

Legend

- ▲ Release Point
- Soil Sample in Compliance with NMOCD Closure Criteria
- Excavation Sidewall Sample in Compliance with NMOCD Closure Criteria
- Excavation Sidewall Sample Not in Compliance with NMOCD Closure Criteria
- - - Electric Utility Line
- Surface Gas / Electric Lines
- Oil and Gas Utility Line
- ▭ Excavation Extent
- ▭ Production Equipment
- ▭ Deferral Area



Notes:
Sample ID @ Depth Below Ground Surface



Source:
Environmental Systems Research Institute (ESRI)



Deferral Request Areas

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FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 EVGSAU Satellite 5
 Maverick Natural Resources, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	07/27/2022	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	456
SS02	07/27/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	9,950
SS03	07/27/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8,470
SS04	07/27/2022	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	91
SS05	07/27/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	127
SS06	07/27/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	205
SS07	07/27/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	696
SS07A	10/6/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS08	10/6/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Delineation Soil Samples										
BH01	1/9/2023	1	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,940
BH01	1/9/2023	2	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,210
BH01	10/6/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
BH02	1/9/2023	1	<0.00200	0.0514	<49.9	<49.9	<49.9	<49.9	<49.9	581
BH02	1/9/2023	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	313
PH01	1/9/2023	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	4,880
PH01	1/9/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	781
PH01	10/4/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH02	1/9/2023	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,320
PH02	1/9/2023	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	515
PH03	1/9/2023	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,210
PH03	1/9/2023	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	611
PH03	10/4/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH04	10/6/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH04	10/6/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 EVGSAU Satellite 5
 Maverick Natural Resources, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
PH05	10/6/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH05	10/6/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH06	10/6/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH06	10/6/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH07	10/6/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
PH07	10/6/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH08	10/6/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH08	10/6/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH09	10/6/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
PH09	10/6/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
Excavation Sidewall Soil Samples										
SW01	9/25/2023	0-4	<0.050	7.0	217	8,260	1,350	8,477	9,827	2,440
SW02	9/25/2023	0-4.5	<0.050	<0.300	<10.0	1,100	362	1,100	1,462	784
SW03	9/26/2023	0-2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
SW04	9/26/2023	0-2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,720
SW05	9/29/2023	0-4.5	<0.050	8.32	162	5,660	1,180	5,822	7,002	272
SW06	9/29/2023	0-4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816
SW07	9/29/2023	0-4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
SW08	10/4/2023	0-4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW09	10/4/2023	0-4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW10	10/4/2023	0-4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW11	10/4/2023	0-4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW12	10/4/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW13	10/4/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SW14	10/6/2023	0-2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW15	10/6/2023	0-2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 EVGSAU Satellite 5
 Maverick Natural Resources, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS01	9/22/2023	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS02	9/22/2023	4	<0.050	<0.300	<10.0	13.1	<10.0	13.1	13.1	560
FS03	9/25/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS04	9/26/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS05	10/2/2023	0.75	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS06	10/2/2023	0.75	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS07	10/2/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS08	10/2/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS09	10/2/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS10	10/2/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS11	10/2/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS12	10/2/2023	0.75	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	10/4/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS14	10/4/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS15	10/4/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS16	10/6/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS17	10/6/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS18	10/6/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records

Form WR-23

STATE ENGINEER OFFICE

SANTA FE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Noble Drilling Corp.
 Street and Number Drawer 550
 City Midland, State Texas
 Well was drilled under Permit No. L-4881 and is located in the
1/4 NW 1/4 SE 1/4 of Section 26 Twp. 17S Rge. 35E
 (B) Drilling Contractor O. R. Musslewhite License No. WD99
 Street and Number Box 56
 City Hobbs, State New Mexico
 Drilling was commenced April 22, 1962
 Drilling was completed April 24, 1962

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 137
 State whether well is shallow or artesian Shallow Depth to water upon completion 50

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	85	130	45	Red Sand, fine
2				
3				
4				
5				

1963 MAR 11 AM 8:58
 STATE ENGINEER OFFICE
 SANTA FE, N.M.

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	15	none	0	137	137	none	82	137

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19 _____
 Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY
 DISTRICT II
 STATE ENGINEER OFFICE

Date Received 1963 FEB 18 AM 8:34

File No. L-4881 Use O.W.D. Location No. 17.35.26.410

O.W.D. - MK

Form WR-23

STATE ENGINEER OFFICE

SANTA FE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(Plat of 640 acres)

(A) Owner of well Phillips Petroleum Co.
 Street and Number Box 1351
 City Odessa, State Texas
 Well was drilled under Permit No. L-4881-(1) and is located in the
NW 1/4 SE 1/4 of Section 26 Twp. 17S Rge. 35E
 (B) Drilling Contractor _____ License No. _____
 Street and Number _____
 City _____ State _____
 Drilling was commenced _____ 19____
 Drilling was completed _____ 19____

Elevation at top of casing in feet above sea level _____ Total depth of well _____
 State whether well is shallow or artesian _____ Depth to water upon completion _____

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor O. R. Musslewhite License No. WD99
 Street and Number Box 56 City Hobbs, State New Mexico
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used Weld plate on casing. Date Plugged March 1, 1964
 Plugging approved by: _____ Cement Plugs were placed as follows:

James [Signature]
 Basin Supervisor

No.	Depth of Plug		No. of Sacks Used
	From	To	

FOR USE OF STATE ENGINEER ONLY
 STATE ENGINEER OFFICE
 Date Received 1964 MAR-3 AM 8:22

File No. L-4881(1) Use O.W.D. Location No. 17.35.26.410



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USGS Water Resources

Data Category: Groundwater Geographic Area: United States

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Groundwater levels for the Nation

i Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 324837103254601

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324837103254601 17S.35E.23.33424

Lea County, New Mexico
 Latitude 32°48'51", Longitude 103°25'57" NAD27
 Land-surface elevation 3,921.00 feet above NGVD29
 This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.
 This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1961-02-17			D 62610		3883.92	NGVD29	1		Z	
1961-02-17			D 62611		3885.36	NAVD88	1		Z	
1961-02-17			D 72019	37.08			1		Z	
1966-03-17			D 62610		3882.60	NGVD29	P		Z	
1966-03-17			D 62611		3884.04	NAVD88	P		Z	
1966-03-17			D 72019	38.40			P		Z	
1971-02-12			D 62610		3882.26	NGVD29	P		Z	
1971-02-12			D 62611		3883.70	NAVD88	P		Z	
1971-02-12			D 72019	38.74			P		Z	
1976-03-04			D 62610		3883.19	NGVD29	1		Z	
1976-03-04			D 62611		3884.63	NAVD88	1		Z	
1976-03-04			D 72019	37.81			1		Z	
1981-01-16			D 62610		3880.94	NGVD29	1		Z	
1981-01-16			D 62611		3882.38	NAVD88	1		Z	
1981-01-16			D 72019	40.06			1		Z	
1986-04-08			D 62610		3878.72	NGVD29	1		Z	
1986-04-08			D 62611		3880.16	NAVD88	1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1986-04-08			D	72019	42.28		1		Z	
1990-12-19			D	62610		3877.50	NGVD29	1	Z	
1990-12-19			D	62611		3878.94	NAVD88	1	Z	
1990-12-19			D	72019	43.50		1		Z	
1996-02-08			D	62610		3876.14	NGVD29	1	S	
1996-02-08			D	62611		3877.58	NAVD88	1	S	
1996-02-08			D	72019	44.86		1		S	

Explanation

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

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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-01-30 13:29:04 EST

0.29 0.25 nadww01



APPENDIX B

Photographic Log



Photographic Log
Maverick Permian, LLC
EVGSAU Satellite 5
nAPP2213957732



Photograph 1 Date: 7/12/2022
Description: Surface staining of impacted soil
View: Northwest



Photograph 2 Date: 9/19/2023
Description: Surface staining of impacted soil
View: South



Photograph 3 Date: 9/21/2023
Description: Excavation in progress
View: Southwest



Photograph 4 Date: 9/22/2023
Description: Excavation in progress
View: Southeast



Photographic Log
Maverick Permian, LLC
EVGSAU Satellite 5
nAPP2213957732



Sep 22, 2023 11:51:01 AM
32.80679764N 103.4315733W
173° S
Unnamed Road
Lovington
Lea County
New Mexico
Altitude: 3807.8ft
Speed: 0.0mi/h
Ensolum, LLC



Sep 22, 2023 11:51:15 AM
32.8067373N 103.43153235W
224° SW
Unnamed Road
Lovington
Lea County
New Mexico
Altitude: 3820.4ft
Speed: 1.4mi/h
Ensolum, LLC

Photograph 5

Date: 09/22/2022

Photograph 6

Date: 9/22/2023

Description: Completed excavation

Description: Completed excavation

View: South

View: West



Sep 26, 2023 11:29:30 AM
32.80688258N 103.43144068W
179° S
50 Van Noy Lane
Hobbs
Lea County
New Mexico
Altitude: 3859.3ft
Speed: 4.2mi/h
Ensolum, LLC



Sep 26, 2023 11:29:41 AM
32.80684669N 103.43151838W
91° E
50 Van Noy Lane
Hobbs
Lea County
New Mexico
Altitude: 3857.3ft
Speed: 1.3mi/h
Ensolum, LLC

Photograph 7

Date: 9/26/2023

Photograph 8

Date: 9/26/2023

Description: Completed excavation

Description: Completed excavation

View: South

View: East



Photographic Log
Maverick Permian, LLC
EVGSAU Satellite 5
nAPP2213957732



Sep 26, 2023 11:29:56 AM
32.80676877N 103.43145359W
13° N
Unnamed Road
Lovington
Lea County
New Mexico
Altitude: 3860.5ft
Speed: 1.6mi/h
Ensolum, LLC

Photograph 9 Date: 9/26/2023
Description: Completed excavation
View: North



Sep 27, 2023 11:06:55 AM
163° S
Altitude: 3671ft
Ensolum, LLC

Photograph 10 Date: 9/27/2023
Description: Completed excavation
View: South



Oct 2, 2023 1:56:43 PM
32.80678296N 103.43150182W
218° SW
Unnamed Road
Lovington
Lea County
New Mexico
Altitude: 3844.4ft
Speed: 0.0mi/h
Ensolum, LLC

Photograph 11 Date: 10/2/2023
Description: Excavation in progress
View: Southwest



Oct 4, 2023 12:11:47 PM
32.80684181N 103.43153112W
174° S
210 East Avenue 0
Lovington
Lea County
New Mexico
Altitude: 3878.7ft
Speed: 0.0mi/h
Ensolum, LLC

Photograph 12 Date: 10/4/2023
Description: Completed excavation
View: South



Photographic Log
Maverick Permian, LLC
EVGSAU Satellite 5
nAPP2213957732



Oct 4, 2023 12:12:00 PM
32.80683663N 103.43163656W
254' W
Unnamed Road
Lovington
Lea County
New Mexico
Altitude: 3870.1 ft
Speed: 0.0 mi/h
Ensolum, LLC

Photograph 13 Date: 10/4/2023
Description: Completed excavation
View: West



Oct 6, 2023 10:38:43 AM
32.80669103N 103.4316524N
25' E
Unnamed Road
Lovington
Lea County
New Mexico
Altitude: 3851.9 ft
Speed: 0.0 mi/h
Ensolum, LLC

Photograph 14 Date: 10/6/2023
Description: Excavation in progress
View: East



Oct 6, 2023 2:17:51 PM
32.80676947N 103.43152133W
230' SW
Unnamed Road
Lovington
Lea County
New Mexico
Altitude: 3853.3 ft
Speed: 0.0 mi/h
Ensolum, LLC

Photograph 15 Date: 10/6/2023
Description: Completed excavation
View: West



Oct 6, 2023 2:17:32 PM
32.80665807N 103.43156028W
318' NW
1313 Main Street
Lovington
Lea County
New Mexico
Altitude: 3838.8 ft
Speed: 1.6 mi/h
Ensolum, LLC

Photograph 16 Date: 10/6/2023
Description: Completed excavation
View: North



APPENDIX C

Lithologic Soil Sampling Logs

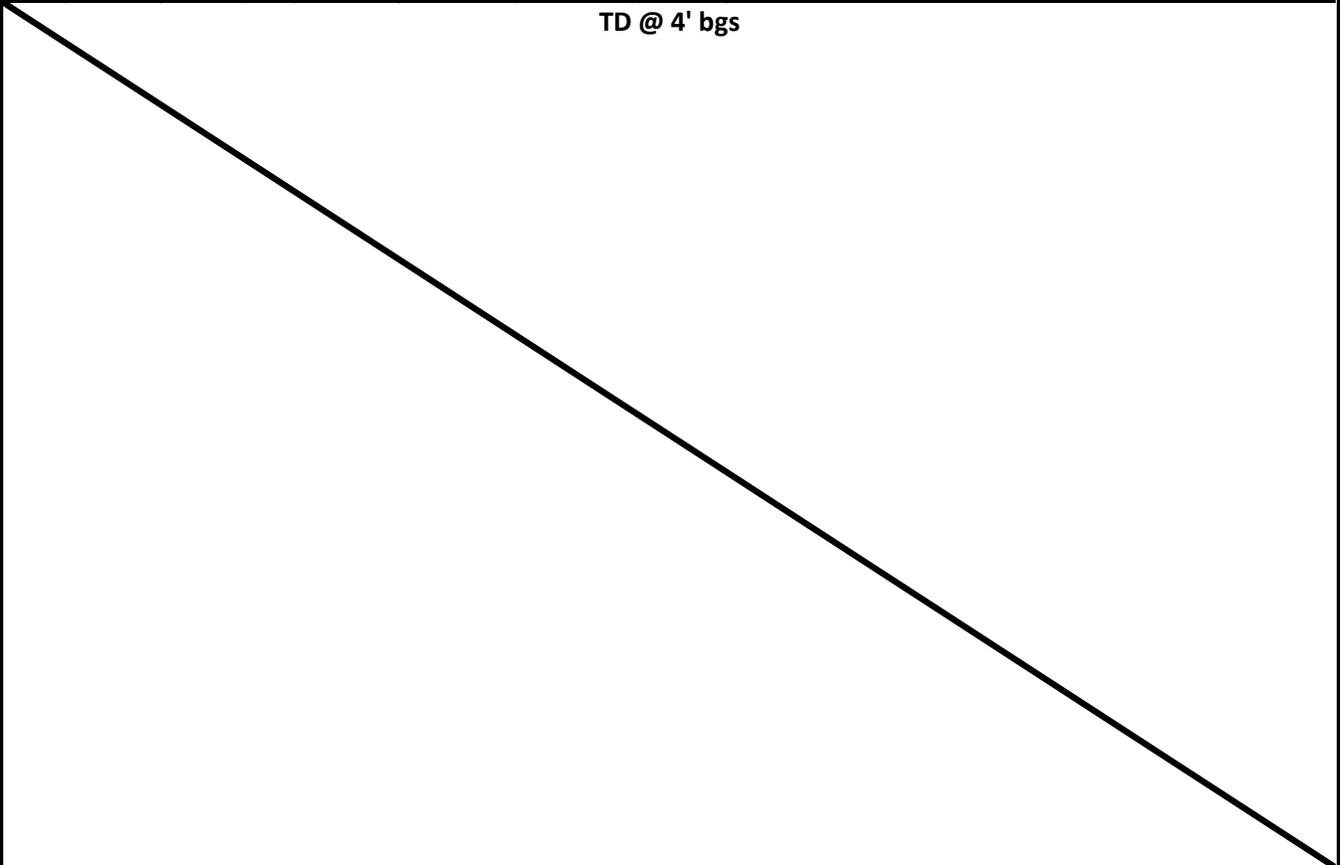
					Sample Name: BH01		Date: 01/09/23	
					Site Name: EVGSAU Satellite 5			
					Incident Number: NAPP2213957732			
					Job Number: 03D2057012			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: CS		Method: Hand Auger	
Coordinates: 32.806667, -103.431389					Hole Diameter: NA		Total Depth: 2.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	1,377	0.9	N	BH01	1	1	CCHE	CALICHE, White Grey, No stain, no odor
D	1,092	0.4	N	BH01	2	2	CCHE	
D	416	0.0	N	BH01	2.5	2.5	CCHE	CALICHE, SAA
TD @ 2.5' bgs								

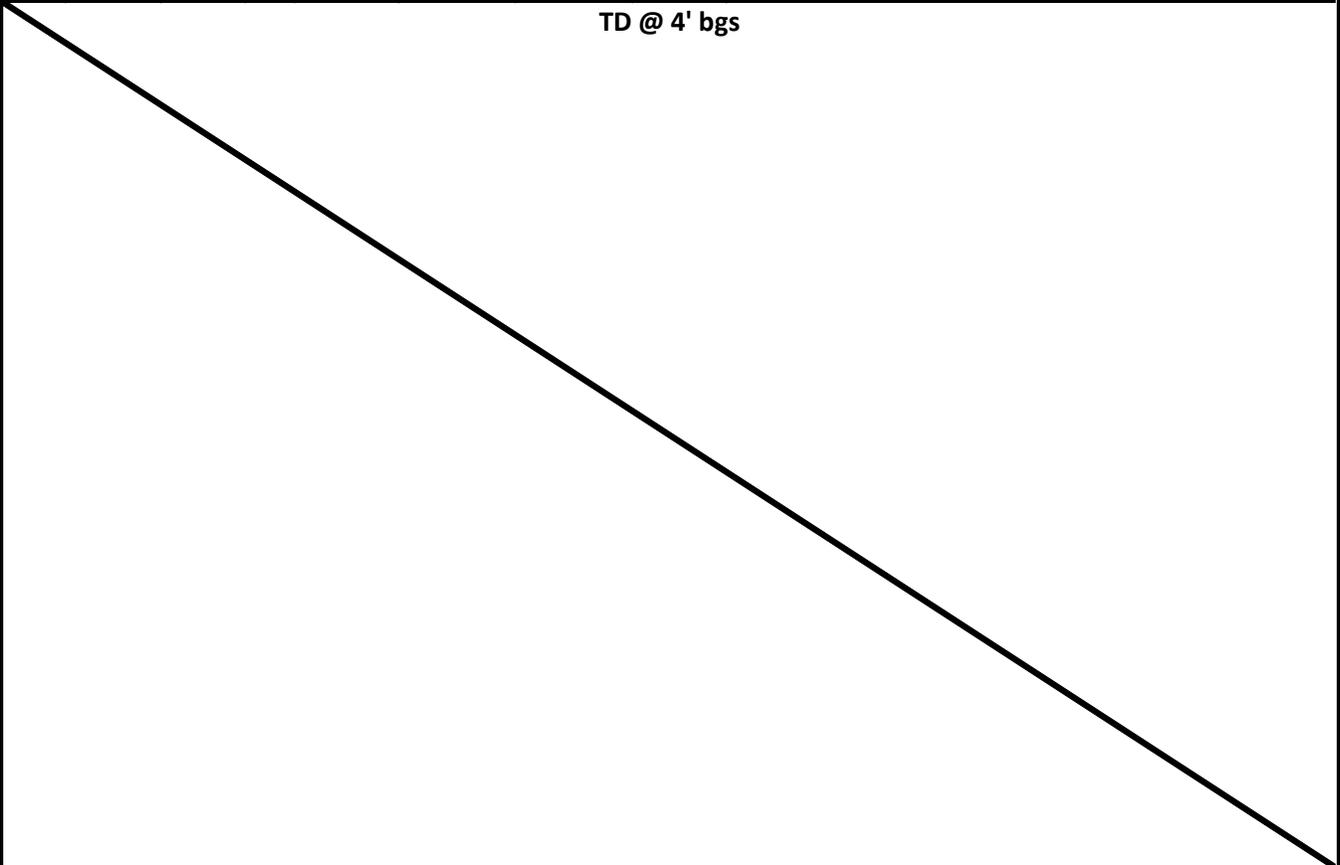
					Sample Name: BH02		Date: 01/09/23							
					Site Name: EVGSAU Satellite 5				Incident Number: NAPP2213957732					
					Job Number: 03D2057012				Logged By: CS				Method: Hand Auger	
					Coordinates: 32.806667, -103.431389				Hole Diameter: NA				Total Depth: 2'	
LITHOLOGIC / SOIL SAMPLING LOG														
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.														
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions						
					0									
D	470	0.7	N	BH02	1	1	CCHE	CALICHE, White Grey, No stain, no odor						
D	246	0.2	N	BH02	2	2	CCHE	CALICHE, White Grey, no stain, no odor						
TD @ 2 feet bgs														

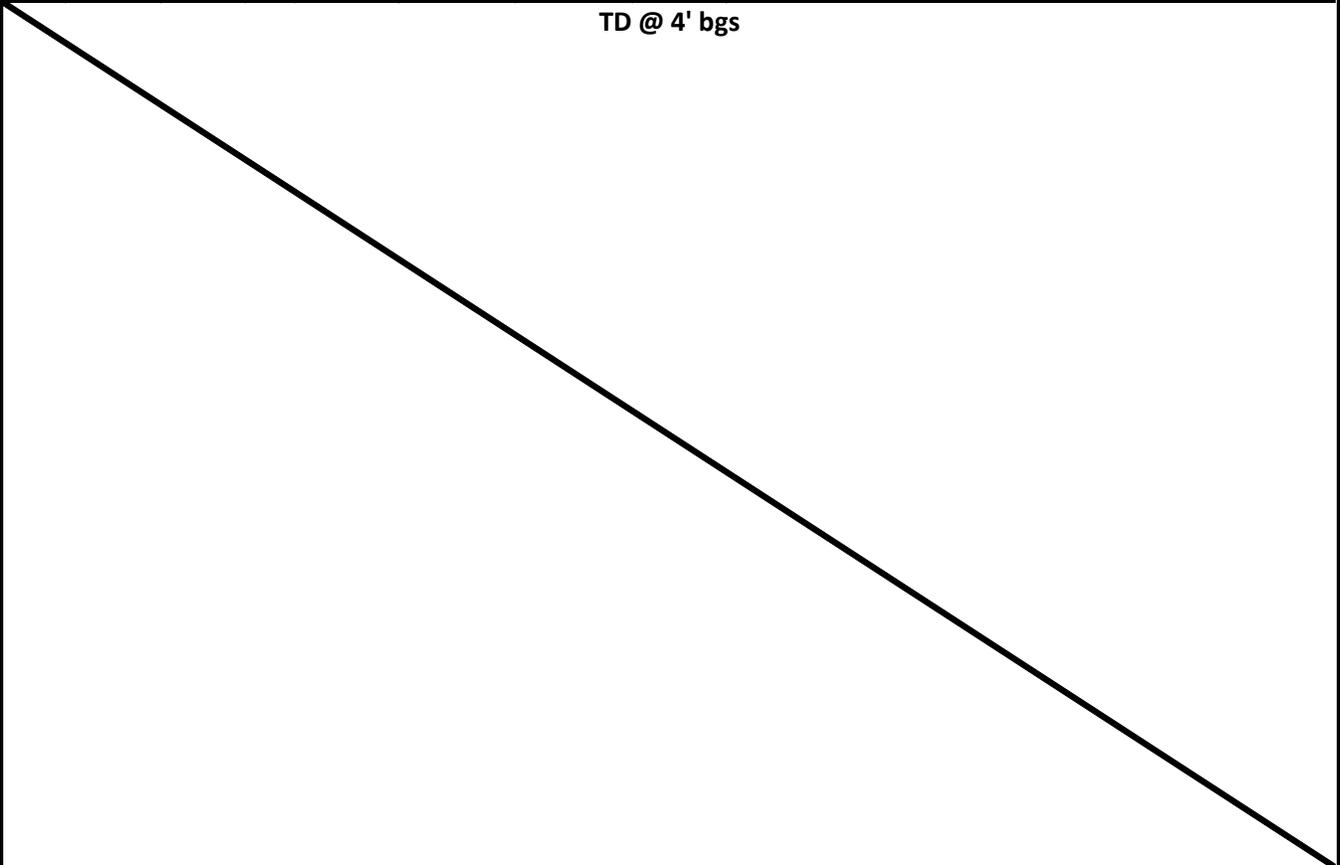
					Sample Name: PH01		Date: 01/09/23							
					Site Name: EVGSAU Satellite 5				Incident Number: NAPP2213957732					
					Job Number: 03D2057012				Logged By: CS				Method: Trackhoe	
					Coordinates: 32.806667, -103.431389				Hole Diameter: NA				Total Depth: 3'	
LITHOLOGIC / SOIL SAMPLING LOG														
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.														
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions						
						0								
D	>3,421	0.9	N	PH01	1	1	CCHE	CALICHE, White Grey, No stain, no odor						
D	2,755	0.8	N	PH01	2	2	CCHE	CALICHE, dark brown dirt, no stain, no odor						
D	<168	0.0	N	PH01	3	3	CCHE	CALICHE, White Grey, No stain, no odor						
TD @ 3' bgs														

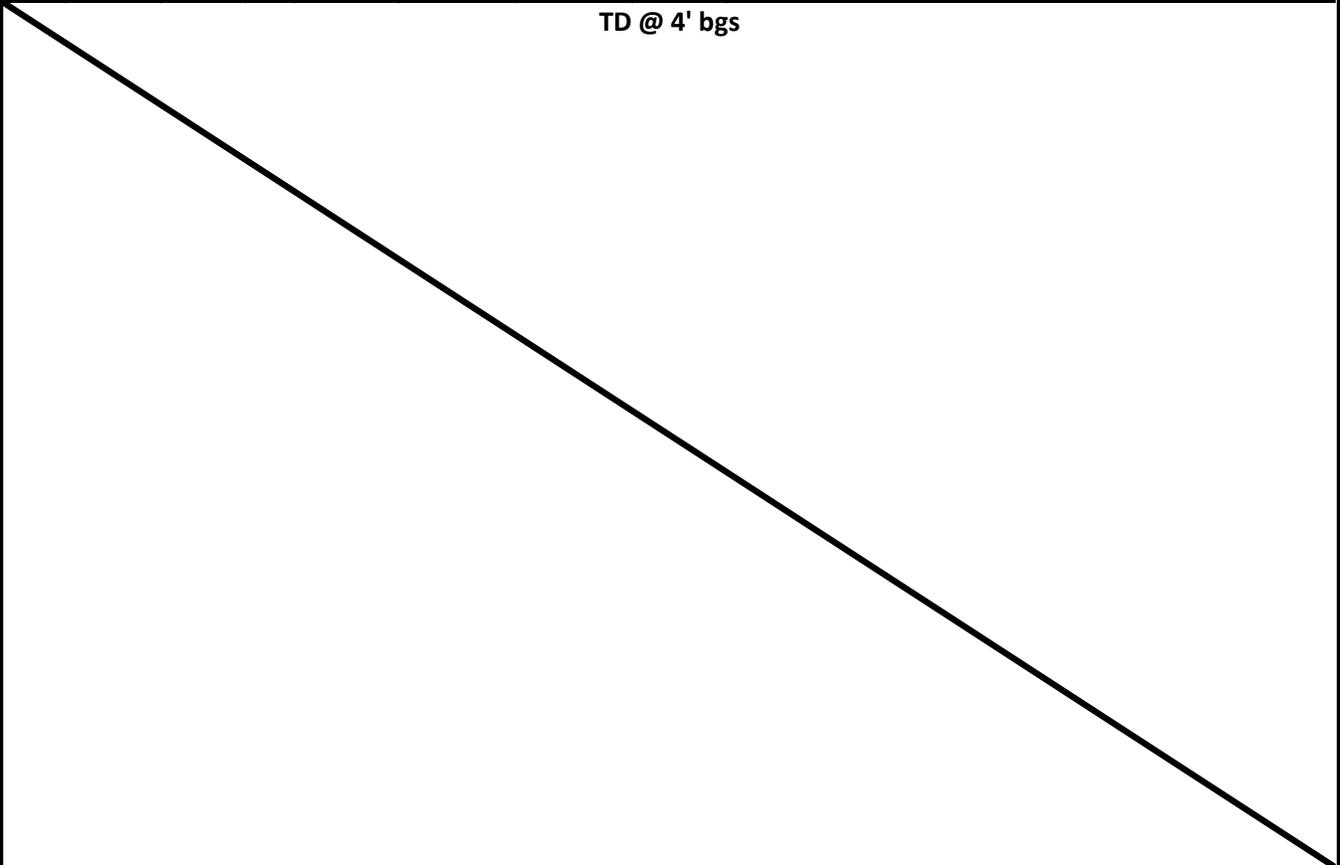
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					Site Name: EVGSAU Satellite 5			
					Incident Number: NAPP2213957732			
					Job Number: 03D2057012			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: CS		Method: Trackhoe	
Coordinates: 32.806667, -103.431389					Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	1,831	1.1	N			1	CCHE	CALICHE, White Grey, No stain, no odor
D	1,478	0.9	N			2	CCHE	CALICHE, dark brown dirt, no stain, no odor
D	2,032	0.8	N	PH02	3	3	CCHE	CALICHE, White Grey, No stain, no odor
D	369	1.3	N	PH02	4	4	CCHE	CALICHE, White Grey, No stain, no odor
TD @ 4 feet bgs								

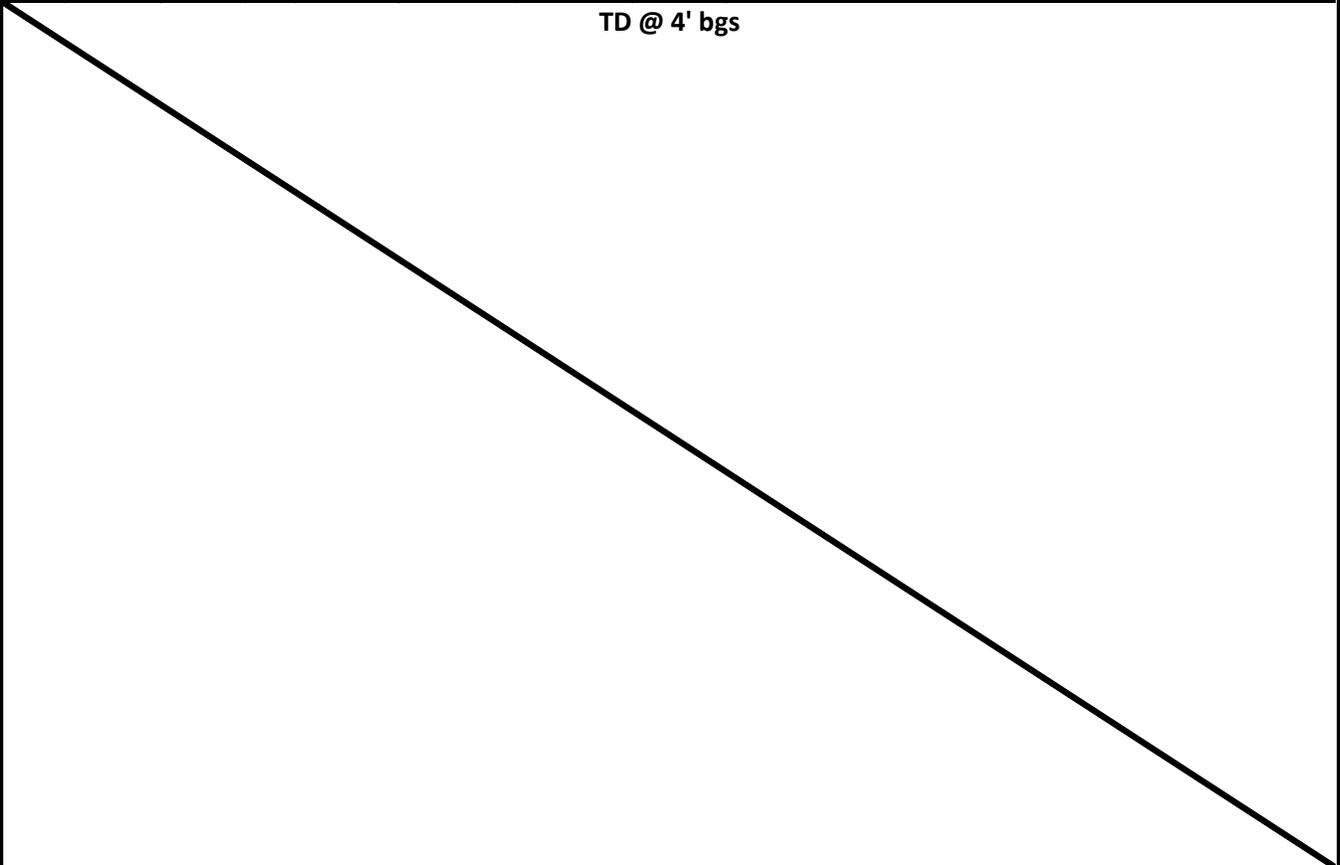
					Sample Name: PH03		Date: 01/09/23	
					Site Name: EVGSAU Satellite 5			
					Incident Number: NAPP2213957732			
					Job Number: 03D2057012			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: CS		Method: Trackhoe	
Coordinates: 32.806667, -103.431389					Hole Diameter: NA		Total Depth: 4.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	1,764	0.7	N	PH03	1	1	CCHE	CALICHE, White Grey, No stain, no odor
D	649	0.4	N			2	CCHE	CALICHE, brown grey dirt, no stain, no odor
D	1,125	0.7	N			3	CCHE	CALICHE, White Grey, No stain, no odor
D	414	0.8	N	PH03	4	4	CCHE	CALICHE, White Grey, No stain, no odor
D	207	0.0	N	PH03	4.5	4.5	SP-SM	SAND, dark brown, no stain, no odor
TD @ 4.5' bgs								

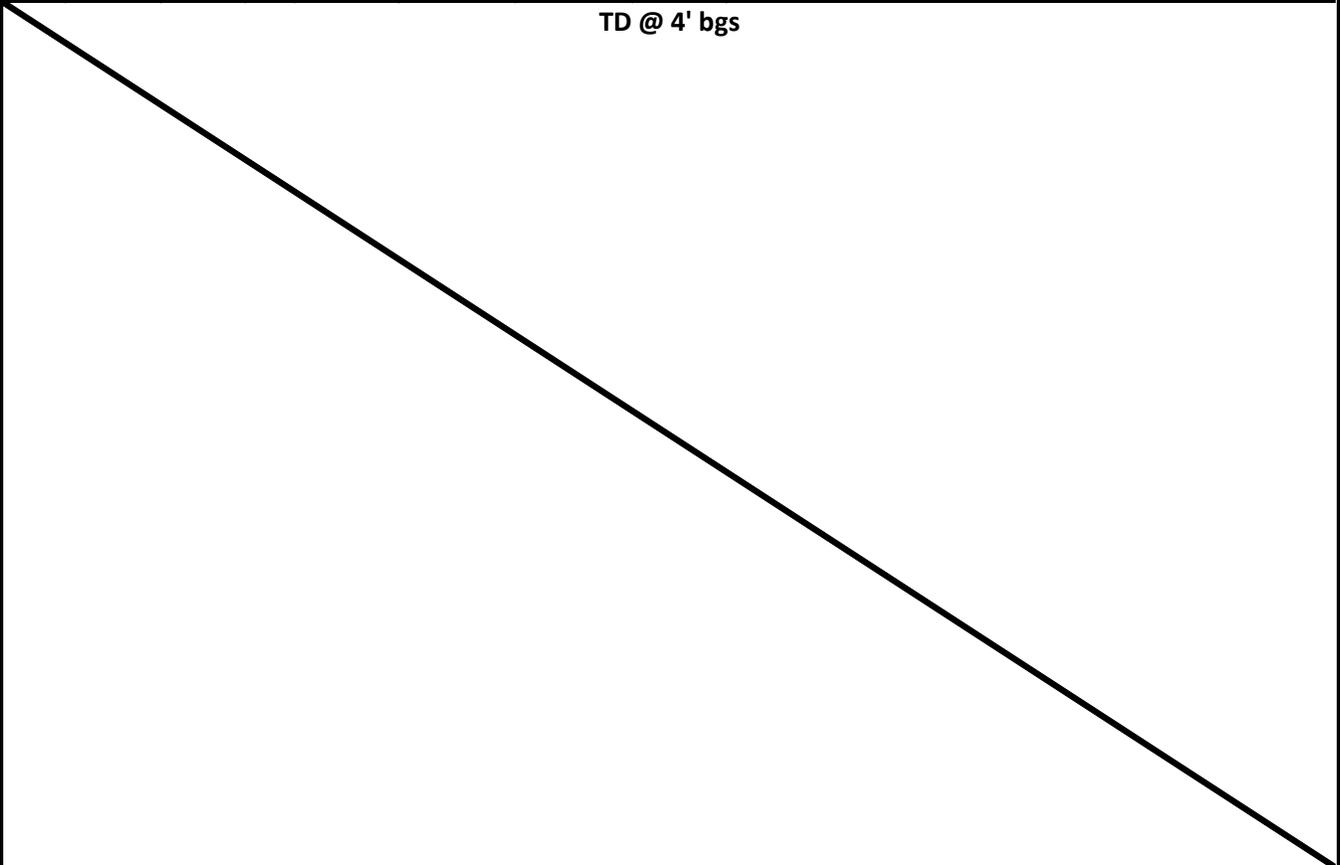
								Sample Name: PH04	Date: 10/6/2023
								Site Name: EVGSAU Satellite 5	
								Incident Number: NAPP2213957732	
								Job Number: 03D2057012	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata	Method: Backhoe
Coordinates: (32.806725, -103.431379)								Hole Diameter:	Total Depth: 4'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<168	0.0	N	PH04	1	1	SP-SM	SAND (1'): fine grained, poorly graded, trace amounts of silt, light brown, no odor, non cohesive, non plastic.	
D	<168	0.0	N	-	2	2	SP-SM	SAND (2''): SAA.	
D	<168	0.0	N	-	3	3	SP-SM	SAND (3'): fine grained, poorly graded, trace amounts of silt and clay, medium to dark brown, no odor, slightly cohesive, slightly plastic.	
D	<168	0.0	N	PH04	4	4	SC	CLAY (4'): fine grained, poorly graded, trace amounts of small gravel, dark brown, no odor, medium plasticity, cohesive.	
TD @ 4' bgs									
									

								Sample Name: PH05		Date: 10/6/2023	
								Site Name: EVGSAU Satellite 5			
								Incident Number: NAPP2213957732			
								Job Number: 03D2057012			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata		Method: Backhoe	
Coordinates: (32.806822, -103.431373)						Hole Diameter:		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	<168	0.0	N	PH05	1	1	CCHE	CCHE (1'): medium grained, poorly graded, trace amounts of silt, tan, no odor, non cohesive, non plastic.			
D	<168	0.0	N	-	2	2	CCHE	CCHE (2'): SAA.			
D	<168	0.0	N	-	3	3	CCHE	CALICHE (3'): medium grained, poorly graded, trace amounts of clay and small gravel, tan to dark brown, no odor, non cohesive, low plasticity.			
D	<168	0.0	N	PH05	4	4	SC	CLAY (4'): fine grained, poorly graded, trace amounts of small gravel, dark brown, no odor, medium plasticity, cohesive.			
TD @ 4' bgs											
											

								Sample Name: PH06	Date: 10/6/2023
								Site Name: EVGSAU Satellite 5	
								Incident Number: NAPP2213957732	
								Job Number: 03D2057012	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata	Method: Backhoe
Coordinates: (32.806897, -103.431536)								Hole Diameter:	Total Depth: 4'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<168	0.0	N	PH06	1	1	CCHE	CCHE (1'): medium grained, poorly graded, trace amounts of silt, tan, no odor, non cohesive, non plastic.	
D	<168	0.0	N	-	2	2	CCHE	CALICHE (2'): SAA.	
D	<168	0.0	N	-	3	3	SC	CLAY (3'): fine grained, poorly graded, trace amounts of small gravel, light to dark brown, no odor, non cohesive, low plasticity.	
D	<168	0.0	N	PH06	4	4	SC	CLAY (4'): fine grained, poorly graded, trace amounts of small gravel, dark brown, no odor, medium plasticity, cohesive.	
TD @ 4' bgs									
									

								Sample Name: PH07	Date: 10/6/2023
								Site Name: EVGSAU Satellite 5	
								Incident Number: NAPP2213957732	
								Job Number: 03D2057012	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata	Method: Backhoe
Coordinates: (32.806838, -103.431745)								Hole Diameter:	Total Depth: 4'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<168	0.0	N	PH07	1	1	CCHE	CCHE (1'): medium grained, poorly graded, trace amounts of silt, tan, no odor, non cohesive, non plastic.	
D	<168	0.0	N	-	2	2	CCHE	CALICHE (2'): medium grained, poorly graded, trace amounts of clay, tan to light brown, non cohesive, non plastic.	
D	<168	0.0	N	-	3	3	SC	CLAY (3'): fine grained, poorly graded, trace amounts of small gravel, light to dark brown, no odor, non cohesive, low plasticity.	
D	<168	0.0	N	PH07	4	4	SC	CLAY (4'): fine grained, poorly graded, trace amounts of small gravel, dark brown, no odor, medium plasticity, cohesive.	
TD @ 4' bgs									
									

								Sample Name: PH08	Date: 10/6/2023
								Site Name: EVGSAU Satellite 5	
								Incident Number: NAPP2213957732	
								Job Number: 03D2057012	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata	Method: Backhoe
Coordinates: (32.806747, -103.431724)								Hole Diameter:	Total Depth: 4'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<168	0.0	N	PH08	1	1	CCHE	CALICHE (1'): medium grained, poorly graded, trace amounts of silt, tan, no odor, non cohesive, non plastic.	
D	<168	0.0	N	-	2	2	CCHE	CALICHE (2'): SAA	
D	<168	0.0	N	-	3	3	SC	CLAY (3'): fine grained, poorly graded, trace amounts of small gravel, light to dark brown, no odor, non cohesive, low plasticity.	
D	<168	0.0	N	PH08	4	4	SC	CLAY (4'): fine grained, poorly graded, trace amounts of small gravel, dark brown, no odor, medium plasticity, cohesive.	
TD @ 4' bgs									
									

								Sample Name: PH09	Date: 10/6/2023
								Site Name: EVGSAU Satellite 5	
								Incident Number: NAPP2213957732	
								Job Number: 03D2057012	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: J.Falcomata	Method: Backhoe
Coordinates: (32.806695, -103.431487)								Hole Diameter:	Total Depth: 4'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<168	0.0	N	PH09	1	1	CCHE	CALICHE (1'): medium grained, poorly graded, trace amounts of silt, tan, no odor, non cohesive, non plastic.	
D	<168	0.0	N	-	2	2	CCHE	CALICHE (2'): SAA	
D	<168	0.0	N	-	3	3	SC	CLAY (3'): fine grained, poorly graded, trace amounts of small gravel, light to dark brown, no odor, non cohesive, low plasticity.	
D	<168	0.0	N	PH09	4	4	SC	CLAY (4'): SAA	
TD @ 4' bgs									
									



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

September 25, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAT 5

Enclosed are the results of analyses for samples received by the laboratory on 09/22/23 12:57.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/22/2023	Sampling Date:	09/22/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	EVGSAT 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: FS 01 @ 3.5' (H235169-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2023	ND	1.98	99.1	2.00	3.74	
Toluene*	<0.050	0.050	09/22/2023	ND	2.05	102	2.00	4.68	
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.06	103	2.00	2.77	
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.55	
Total BTEX	<0.300	0.300	09/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	368	16.0	09/25/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	197	98.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	184	92.0	200	5.73	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/22/2023	Sampling Date:	09/22/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	EVGSAT 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: FS 02 @ 4' (H235169-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2023	ND	1.98	99.1	2.00	3.74	
Toluene*	<0.050	0.050	09/22/2023	ND	2.05	102	2.00	4.68	
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.06	103	2.00	2.77	
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.55	
Total BTEX	<0.300	0.300	09/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	560	16.0	09/25/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	197	98.6	200	1.27	
DRO >C10-C28*	13.1	10.0	09/23/2023	ND	184	92.0	200	5.73	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ARSOLUM, LLC **BILL TO** P.O. #: N.A. ANALYSIS REQUEST

Project Manager: Amel Bell Company: N.A.

Address: 6102 West 1 Porks Hwy Attn:

City: Parksdale State: LA Zip: 70572 Address:

Phone #: 707-384-7345 Fax #: City: State: Zip:

Project #: 0802057012 Project Owner: Mascherik

Project Name: VC SAT 5 State: Phone #:

Project Location: 52.80667 -108.431389 Fax #:

Sampler Name: Juliana Falcovicka

FOR LAB USE ONLY
 Lab I.D. H23518A Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
1	FS01 @ 8.5	↓	↓			X				9/22/23	1100	BTX
2	FS02 @ 4	↓	↓			X				9/22/23	1105	TPH
												Chlorides

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising from this contract or not, 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 service. 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. *Cardinal's responsibility of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 9/22/23 Received By: [Signature]

Time: 12:57 Date: 9/22/23 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C 9.9 Sample Condition Intact Cool Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C 9.9 CHECKED BY: (Initials) [Signature]

Thermometer ID #140 24hr Standard Bacteria (only) Sample Condition Intact Cool Yes No

Turnaround Time: ARSOLUM.COM Falco Falcovicka Observed Temp. °C 9.9 Corrected Temp. °C 9.9

Remarks: ARSOLUM.COM Falco Falcovicka 9/22/23 1100 1105



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

September 27, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 09/26/23 13:27.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/26/2023	Sampling Date:	09/25/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: FS 03 @ 3' (H235237-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2023	ND	1.89	94.5	2.00	0.473	
Toluene*	<0.050	0.050	09/26/2023	ND	1.97	98.7	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/26/2023	ND	1.97	98.3	2.00	0.206	
Total Xylenes*	<0.150	0.150	09/26/2023	ND	5.99	99.9	6.00	0.170	
Total BTEX	<0.300	0.300	09/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	336	16.0	09/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2023	ND	181	90.7	200	0.565	
DRO >C10-C28*	<10.0	10.0	09/26/2023	ND	204	102	200	0.457	
EXT DRO >C28-C36	<10.0	10.0	09/26/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: FS 04 @ 2.5' (H235237-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2023	ND	1.89	94.5	2.00	0.473	
Toluene*	<0.050	0.050	09/27/2023	ND	1.97	98.7	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/27/2023	ND	1.97	98.3	2.00	0.206	
Total Xylenes*	<0.150	0.150	09/27/2023	ND	5.99	99.9	6.00	0.170	
Total BTEX	<0.300	0.300	09/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	96.0	16.0	09/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2023	ND	181	90.7	200	0.565	
DRO >C10-C28*	<10.0	10.0	09/26/2023	ND	204	102	200	0.457	
EXT DRO >C28-C36	<10.0	10.0	09/26/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 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

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>PERISOLM LLC</u> Project Manager: <u>Samuel Hoff</u> Address: <u>8122 East Park Drive</u> City: <u>Portland</u> State: <u>NM</u> Zip: <u>88220</u> Phone #: <u>505-225-7012</u> Fax #: _____ Project #: <u>2195AD satellite 5</u> Project Owner: <u>Maverick</u> Project Location: <u>5280107 - 103431389</u> Sampler Name: <u>Sullivan Palomata</u>		BILL TO P.O. #: <u>117</u> Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D.: <u>H235237</u> Sample I.D.: <u>FS08 @ 3'</u> <u>FS04 @ 2.5'</u>		MATRIX GROUNDWATER _____ WASTEWATER _____ SOIL <input checked="" type="checkbox"/> _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL: <input checked="" type="checkbox"/> _____ OTHER: _____	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 provisions or otherwise.		PREPARED BY: _____ DATE: _____ TIME: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C: <u>26.5</u> Corrected Temp. °C: _____ Sample Condition: <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Retinquished By: <u>[Signature]</u> Retinquished By: <u>[Signature]</u>		Received By: <u>[Signature]</u> Date: <u>9/26/23</u> Title: <u>13.27</u> Date: _____ Received By: <u>[Signature]</u>	
Remarks: <u>APP 22/3957132</u> <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/> Turndown Time: _____ Thermometer ID #140: <u>24hr</u> Correction Factor 0°C: _____		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All results are emailed. Please provide Email address: <u>palomata@perisolm.com</u> REMARKS: <u>palomata@perisolm.com</u>	
Bacteria (only) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Cool Intact <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Sample Condition <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____		DATE: <u>9/25/23</u> TIME: <u>1230</u> DATE: <u>9/26/23</u> TIME: <u>1135</u> DATE: _____ TIME: _____	

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



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

September 29, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 09/26/23 13:27.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/26/2023	Sampling Date:	09/25/2023
Reported:	09/29/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: SW 01 @ 0-4' (H235241-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2023	ND	1.95	97.7	2.00	0.719	
Toluene*	0.440	0.050	09/27/2023	ND	2.06	103	2.00	0.722	
Ethylbenzene*	2.25	0.050	09/27/2023	ND	2.25	112	2.00	1.28	
Total Xylenes*	4.30	0.150	09/27/2023	ND	5.88	98.0	6.00	0.806	
Total BTEX	6.99	0.300	09/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 185 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	09/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	217	10.0	09/27/2023	ND	225	113	200	17.1	
DRO >C10-C28*	8260	10.0	09/27/2023	ND	227	114	200	21.5	
EXT DRO >C28-C36	1350	10.0	09/27/2023	ND					

Surrogate: 1-Chlorooctane 160 % 48.2-134

Surrogate: 1-Chlorooctadecane 514 % 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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/26/2023	Sampling Date:	09/25/2023
Reported:	09/29/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: SW 02 @ 0-4.5' (H235241-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2023	ND	1.95	97.7	2.00	0.719	
Toluene*	<0.050	0.050	09/27/2023	ND	2.06	103	2.00	0.722	
Ethylbenzene*	<0.050	0.050	09/27/2023	ND	2.25	112	2.00	1.28	
Total Xylenes*	<0.150	0.150	09/27/2023	ND	5.88	98.0	6.00	0.806	
Total BTEX	<0.300	0.300	09/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	784	16.0	09/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/27/2023	ND	225	113	200	17.1		
DRO >C10-C28*	1100	10.0	09/27/2023	ND	227	114	200	21.5		
EXT DRO >C28-C36	362	10.0	09/27/2023	ND						

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

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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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	09/29/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: SW 03 @ 0-2.5' (H235241-03)

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	09/27/2023	ND	1.78	89.2	2.00	0.628	
Toluene*	<0.050	0.050	09/27/2023	ND	1.79	89.3	2.00	2.35	
Ethylbenzene*	<0.050	0.050	09/27/2023	ND	1.88	94.0	2.00	3.06	
Total Xylenes*	<0.150	0.150	09/27/2023	ND	5.64	93.9	6.00	2.08	
Total BTEX	<0.300	0.300	09/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	720	16.0	09/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2023	ND	225	113	200	17.1	
DRO >C10-C28*	<10.0	10.0	09/26/2023	ND	227	114	200	21.5	
EXT DRO >C28-C36	<10.0	10.0	09/26/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	09/29/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK 32.80667-103.431389		

Sample ID: SW 04 @ 0-2.5' (H235241-04)

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	09/27/2023	ND	1.78	89.2	2.00	0.628	
Toluene*	<0.050	0.050	09/27/2023	ND	1.79	89.3	2.00	2.35	
Ethylbenzene*	<0.050	0.050	09/27/2023	ND	1.88	94.0	2.00	3.06	
Total Xylenes*	<0.150	0.150	09/27/2023	ND	5.64	93.9	6.00	2.08	
Total BTEX	<0.300	0.300	09/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	1720	16.0	09/26/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2023	ND	225	113	200	17.1	
DRO >C10-C28*	<10.0	10.0	09/26/2023	ND	227	114	200	21.5	
EXT DRO >C28-C36	<10.0	10.0	09/26/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 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.
QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Perisolum LLC</u> Project Manager: <u>James Cole</u> Address: <u>8122 Nat'l Parks Hwy</u> City: <u>Parkhead</u> State: <u>NM</u> Zip: <u>88220</u> Phone #: <u>720-384-9483</u> Fax #: _____ Project #: <u>18D0257012</u> Project Owner: <u>Maverick</u> Project Name: <u>QVMSHU Satellite 5</u> Project Location: <u>82.806671 -108.431389</u> Sampler Name: <u>PERISOLUM LABORATORIES</u>		P.O. #: <u>AA</u> Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
--	--	--	--

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H235241</u>	<u>1 SU001</u>	<u>0-4'</u>	<u>1</u>			<u>X</u>				<u>9/25/23</u>	<u>1245</u>	<u>BTEX</u>
	<u>2 SU002</u>	<u>0-4.5'</u>	<u>1</u>			<u>X</u>				<u>9/25/23</u>	<u>1300</u>	<u>TPH</u>
	<u>3 SU003</u>	<u>0-2.5'</u>	<u>1</u>			<u>X</u>				<u>9/26/23</u>	<u>1140</u>	<u>chlorides</u>
	<u>4 SU004</u>	<u>0-2.5'</u>	<u>1</u>			<u>X</u>				<u>9/26/23</u>	<u>1145</u>	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or hereunder 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 service. 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 the nature of such claim, unless such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____ Date: 9/24/23 Time: 13:37
 Relinquished By: James Cole
 Received By: Shay Wheeler
 Verbal Result: Yes No A0711 Phone #: _____
 All Results are emailed. Please provide Email address: perisolum.com
 REMARKS: perisolum.com
 Turnaround Time: 11/23/23 Standard Rush

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: 21.0 Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: _____
 CHECKED BY: (Initials) PC
 Bacteria (only) Sample Condition: Bacteria Intact Cool Intact Yes No
 Corrected Temp. °C: _____

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



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

October 03, 2023

AIMEE COLE
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/02/23 14:52.

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:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.806667, -103.431389		

Sample ID: FS07 @ 4.5' (H235347-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.01	101	2.00	0.653	
Toluene*	<0.050	0.050	10/03/2023	ND	2.05	102	2.00	0.797	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	1.97	98.6	2.00	0.412	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	5.94	99.0	6.00	0.779	
Total BTEX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	10/03/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	186	92.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	219	109	200	5.43	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.806667, -103.431389		

Sample ID: FS08 @ 4.5' (H235347-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.01	101	2.00	0.653	
Toluene*	<0.050	0.050	10/03/2023	ND	2.05	102	2.00	0.797	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	1.97	98.6	2.00	0.412	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	5.94	99.0	6.00	0.779	
Total BTEX	<0.300	0.300	10/03/2023	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	448	16.0	10/03/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	204	102	200	1.89	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	226	113	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 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:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.806667, -103.431389		

Sample ID: FS09 @ 4.5' (H235347-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.01	101	2.00	0.653	
Toluene*	<0.050	0.050	10/03/2023	ND	2.05	102	2.00	0.797	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	1.97	98.6	2.00	0.412	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	5.94	99.0	6.00	0.779	
Total BTEX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	448	16.0	10/03/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	204	102	200	1.89	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	226	113	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.806667, -103.431389		

Sample ID: FS10 @ 4.5' (H235347-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.01	101	2.00	0.653	
Toluene*	<0.050	0.050	10/03/2023	ND	2.05	102	2.00	0.797	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	1.97	98.6	2.00	0.412	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	5.94	99.0	6.00	0.779	
Total BTEX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	592	16.0	10/03/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	204	102	200	1.89	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	226	113	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/03/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.806667, -103.431389		

Sample ID: FS11 @ 4.5' (H235347-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2023	ND	2.01	101	2.00	0.653	
Toluene*	<0.050	0.050	10/03/2023	ND	2.05	102	2.00	0.797	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	1.97	98.6	2.00	0.412	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	5.94	99.0	6.00	0.779	
Total BTEX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	592	16.0	10/03/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	204	102	200	1.89	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	226	113	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Carsilum LLC
 Project Manager: Jim Bell
 Address: 8122 Nat'l Parks Hwy
 City: Parlsboro State: NM Zip: 88220
 Phone #: 720-884-7865 Fax #: -
 Project #: 08D2057012 Project Owner: Mausierick
 Project Name: AVRSHU Satellite 5
 Project Location: 828066607-108.481359
 Sampler Name: Juliana Patterson

P.O. #: A.A
 Company: -
 Attn: -
 Address: -
 City: -
 State: - Zip: -
 Phone #: -
 Fax #: -

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL				
<u>A235347</u>	<u>FS01 @ 4.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>		<u>10/7/23</u>	<u>1110</u>	<u>X</u>	<u>BTEX</u>
	<u>FS08 @ 4.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>		<u>11/20</u>	<u>1120</u>	<u>X</u>	<u>TPH</u>
	<u>FS09 @ 4.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>		<u>11/25</u>	<u>1125</u>	<u>X</u>	<u>Chlorides</u>
	<u>FS10 @ 4.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>		<u>11/30</u>	<u>1130</u>	<u>X</u>	
	<u>FS11 @ 4.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>				<u>X</u>	

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Relinquished By: [Signature] Date: 12-2-23
 Received By: [Signature] Date: 12-2-23
 Relinquished By: [Signature] Date: 12-2-23
 Received By: [Signature] Date: 12-2-23

Delivered By: (Circle One) Observed Temp. °C 28 Sample Condition Cool Intact CHECKED BY: [Signature]
 Sampler - UPS - Bus - Other: Corrected Temp. °C - Yes Intact Yes
 Thermometer ID #140 24M Bacteria (only) Sample Condition Yes Intact Yes
 Correction Factor °C - Corrected Temp. °C - Yes Intact Yes

Remarks: and carsilum.com jalonmota@carsilum.com

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinalabsnm.com



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

October 06, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/02/23 14:52.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/02/2023	Sampling Date:	09/29/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 05 @ 0-4.5' (H235353-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.01	100	2.00	2.18	
Toluene*	0.323	0.050	10/04/2023	ND	2.00	100	2.00	5.28	GC-NC1
Ethylbenzene*	2.08	0.050	10/04/2023	ND	2.05	102	2.00	4.64	
Total Xylenes*	5.91	0.150	10/04/2023	ND	6.23	104	6.00	5.09	
Total BTEX	8.32	0.300	10/04/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	272	16.0	10/04/2023	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*	162	50.0	10/03/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	5660	50.0	10/03/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	1180	50.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/02/2023	Sampling Date:	09/29/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 06 @ 0-4.5' (H235353-02)

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	10/04/2023	ND	2.01	100	2.00	2.18	
Toluene*	<0.050	0.050	10/04/2023	ND	2.00	100	2.00	5.28	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.05	102	2.00	4.64	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.23	104	6.00	5.09	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 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	816	16.0	10/04/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/02/2023	Sampling Date:	09/29/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 07 @ 0-4.5' (H235353-03)

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	10/04/2023	ND	2.01	100	2.00	2.18	
Toluene*	<0.050	0.050	10/04/2023	ND	2.00	100	2.00	5.28	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.05	102	2.00	4.64	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.23	104	6.00	5.09	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	800	16.0	10/04/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 05 @ 0.75' (H235353-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.01	100	2.00	2.18	
Toluene*	<0.050	0.050	10/04/2023	ND	2.00	100	2.00	5.28	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.05	102	2.00	4.64	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.23	104	6.00	5.09	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	16.0	16.0	10/04/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 06 @ 0.75' (H235353-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.01	100	2.00	2.18	
Toluene*	<0.050	0.050	10/04/2023	ND	2.00	100	2.00	5.28	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.05	102	2.00	4.64	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.23	104	6.00	5.09	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	32.0	16.0	10/04/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 07 @ 0.75' (H235353-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.01	100	2.00	2.18	
Toluene*	<0.050	0.050	10/04/2023	ND	2.00	100	2.00	5.28	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.05	102	2.00	4.64	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.23	104	6.00	5.09	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	32.0	16.0	10/04/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: **DORSUM LLC** P.O. #: **AA** ANALYSIS REQUEST

Project Manager: **Amel Jelle** Company: **AA**

Address: **8211 1st Parks Hwy** Attn:

City: **Darkwood** State: **NM** Zip: **87020**

Phone #: **720 384-8105** Fax #: **-**

Project #: **D8D2057012** Project Owner: **Maverick**

Project Name: **Q195AD Satellites** City:

Project Location: **32.806667, -108.18389** State: Zip:

Sampler Name: **Juliana Falconera** Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			
H235353	SU005	0-4.5'	1			X					X			BTEX
	SU006	0-4.5'	1			X					X			TPH
	SU007	0-4.5'	3			X					X			Phenolics
	FS005	.75'	4											
	FS006	.75'	5											
	FS012	.75'	6											

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Relinquished By: **[Signature]** Date: **10-2-23** Received By: **Juliana Falconera** Date: **10/2/23**

Delivered By (Circle One): **UPS** Observed Temp. °C: **28** Sample Condition: **Cool Intact** CHECKED BY: **[Signature]**

Sampler - UPS - Bus - Other: **UPS** Corrected Temp. °C: Turnaround Time: **Standard** Bacteria (only) Sample Condition: **Cool Intact**



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

October 10, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/02/23 14:52.

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/ga/lab_accred_certif.html.

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

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

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

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 05 @ 0-4.5'	H235353-01	Soil	29-Sep-23 10:25	02-Oct-23 14:52
SW 06 @ 0-4.5'	H235353-02	Soil	29-Sep-23 10:30	02-Oct-23 14:52
SW 07 @ 0-4.5'	H235353-03	Soil	29-Sep-23 10:35	02-Oct-23 14:52
FS 05 @ 0.75'	H235353-04	Soil	02-Oct-23 11:00	02-Oct-23 14:52
FS 06 @ 0.75'	H235353-05	Soil	02-Oct-23 11:05	02-Oct-23 14:52
FS 12 @ 0.75'	H235353-06	Soil	02-Oct-23 11:40	02-Oct-23 14:52

10/10/23 - Login put the wrong sample ID for -06. This is the corrected report and will replace the one sent on 10/06/23.

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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SW 05 @ 0-4.5'
H235353-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	3100414	AC	04-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Toluene*	0.323		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	GC-NC1
Ethylbenzene*	2.08		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total Xylenes*	5.91		0.150	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total BTEX	8.32		0.300	mg/kg	50	3100315	JH	04-Oct-23	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID)			125 %		71.5-134	3100315	JH	04-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	162		50.0	mg/kg	5	3100323	MS	03-Oct-23	8015B	
DRO >C10-C28*	5660		50.0	mg/kg	5	3100323	MS	03-Oct-23	8015B	
EXT DRO >C28-C36	1180		50.0	mg/kg	5	3100323	MS	03-Oct-23	8015B	

Surrogate: 1-Chlorooctane			87.8 %		48.2-134	3100323	MS	03-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			124 %		49.1-148	3100323	MS	03-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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SW 06 @ 0-4.5'
H235353-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	816		16.0	mg/kg	4	3100414	AC	04-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3100315	JH	04-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			91.5 %		71.5-134	3100315	JH	04-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.1 %		48.2-134	3100323	MS	03-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %		49.1-148	3100323	MS	03-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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SW 07 @ 0-4.5'
H235353-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	800		16.0	mg/kg	4	3100414	AC	04-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3100315	JH	04-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.0 %		71.5-134	3100315	JH	04-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3100323	MS	04-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100323	MS	04-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100323	MS	04-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.4 %		48.2-134	3100323	MS	04-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.0 %		49.1-148	3100323	MS	04-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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FS 05 @ 0.75'

H235353-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	3100414	AC	04-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3100315	JH	04-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.9 %		71.5-134	3100315	JH	04-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.9 %		48.2-134	3100323	MS	03-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.5 %		49.1-148	3100323	MS	03-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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FS 06 @ 0.75'

H235353-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3100414	AC	04-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3100315	JH	04-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %			71.5-134	3100315	JH	04-Oct-23	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.5 %			48.2-134	3100323	MS	03-Oct-23	8015B
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<i>Surrogate: 1-Chlorooctadecane</i>			90.5 %			49.1-148	3100323	MS	03-Oct-23	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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FS 12 @ 0.75'

H235353-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3100414	AC	04-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3100315	JH	04-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3100315	JH	04-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.0 %		71.5-134	3100315	JH	04-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100323	MS	03-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.7 %		48.2-134	3100323	MS	03-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %		49.1-148	3100323	MS	03-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100414 - 1:4 DI Water										
Blank (3100414-BLK1)										
Prepared & Analyzed: 04-Oct-23										
Chloride	ND	16.0	mg/kg							
LCS (3100414-BS1)										
Prepared & Analyzed: 04-Oct-23										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3100414-BSD1)										
Prepared & Analyzed: 04-Oct-23										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3100315 - Volatiles

Blank (3100315-BLK1)

Prepared: 03-Oct-23 Analyzed: 04-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		96.4	71.5-134			

LCS (3100315-BS1)

Prepared: 03-Oct-23 Analyzed: 04-Oct-23

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.00	0.050	mg/kg	2.00		100	86-128			
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.14	0.100	mg/kg	4.00		104	89-129			
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125			
Total Xylenes	6.23	0.150	mg/kg	6.00		104	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0459		mg/kg	0.0500		91.9	71.5-134			

LCS Dup (3100315-BSD1)

Prepared: 03-Oct-23 Analyzed: 04-Oct-23

Benzene	1.97	0.050	mg/kg	2.00		98.3	82.8-130	2.18	15.8	
Toluene	1.90	0.050	mg/kg	2.00		95.0	86-128	5.28	15.9	
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.7	85.9-128	4.64	16	
m,p-Xylene	3.94	0.100	mg/kg	4.00		98.5	89-129	5.00	16.2	
o-Xylene	1.98	0.050	mg/kg	2.00		99.1	86.1-125	5.27	16.7	
Total Xylenes	5.92	0.150	mg/kg	6.00		98.7	88.2-128	5.09	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0455		mg/kg	0.0500		91.1	71.5-134			

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: EVGSAU SATELLITE 5 Project Number: 03D2057012 Project Manager: AIMEE COLE Fax To:	Reported: 10-Oct-23 12:08
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3100323 - General Prep - Organics

Blank (3100323-BLK1) Prepared & Analyzed: 03-Oct-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.0	48.2-134			
Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	49.1-148			

LCS (3100323-BS1) Prepared: 03-Oct-23 Analyzed: 04-Oct-23

GRO C6-C10	199	10.0	mg/kg	200		99.3	66.4-123			
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	411	10.0	mg/kg	400		103	77.6-123			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	58.8		mg/kg	50.0		118	49.1-148			

LCS Dup (3100323-BSD1) Prepared & Analyzed: 03-Oct-23

GRO C6-C10	198	10.0	mg/kg	200		99.0	66.4-123	0.386	17.7	
DRO >C10-C28	210	10.0	mg/kg	200		105	66.5-118	1.00	21	
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123	0.704	18.5	
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0		120	49.1-148			

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Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DORSUM LLC Project Manager: Amel Jelle Address: 8221 West 1st Parks Hwy City: Darkwood State: NM Zip: 87020 Phone #: 720 384-8105 Fax #: - Project #: D820257012 Project Owner: Maverick Project Name: Q195AD Satellites Project Location: 32.806667, -108.18389 Sampler Name: Juanma Falconera		P.O. #: AA Company: AA Attn: Address: City: State: Zip: Phone #: Fax #: 	
Lab I.D. H235353 Sample I.D. 1 51005 0-4.5' 2 51006 0-4.5' 3 51007 0-4.5' 4 51005 0.75' 5 51006 0.75' 6 51012 0.75'		(G)RAB OR (C)OMP. C # CONTAINERS 1 MATRIX: <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE OTHER: X ACID/BASE: X ICE / COOL: X OTHER: 	
Date: 10-2-23 Time: 1453 Date: Time: 		RECEIVED BY: Juanma Falconera RECEIVED BY: DATE: 10/2/23 TIME: 1030 1035 1055 1100 1105 1140	
Delivered By (Circle One): <input checked="" type="checkbox"/> UPS - Bus - Other: 28 Corrected Temp. °C: 28 Observed Temp. °C: 28 Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: AO Turnaround Time: Standard Thermometer ID #140: Correction Factor 0°C: Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By: [Signature] Date: 10-2-23		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: amel@dorsum.com; falconera@dorsum.com	
REMARKS: 			

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



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

October 05, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/04/23 15:04.

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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 12 @ 4.5' (H235404-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/04/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	160	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 13 @ 4.5' (H235404-02)

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	10/04/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/04/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	304	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 10 @ 0-4.5' (H235404-03)

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	10/05/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/05/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/05/2023	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	224	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 11 @ 0-4.5' (H235404-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/05/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/05/2023	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	288	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 14 @ 3' (H235404-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/05/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 15 @ 3' (H235404-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/05/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	80.0	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 12 @ 0-3' (H235404-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/05/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 13 @ 0-3' (H235404-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/05/2023	ND	2.13	106	2.00	1.33		
Toluene*	<0.050	0.050	10/05/2023	ND	2.10	105	2.00	0.710		
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.20	110	2.00	0.438		
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.61	110	6.00	0.0625		
Total BTEX	<0.300	0.300	10/05/2023	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	352	16.0	10/05/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47		
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42		
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND						

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 03 @ 4.5' (H235404-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2023	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	10/05/2023	ND	2.10	105	2.00	0.710	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.20	110	2.00	0.438	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.61	110	6.00	0.0625	
Total BTEX	<0.300	0.300	10/05/2023	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	128	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 01 @ 3' (H235404-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2023	ND	1.97	98.7	2.00	3.18	
Toluene*	<0.050	0.050	10/05/2023	ND	2.01	101	2.00	2.54	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	1.96	97.8	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	5.94	99.0	6.00	0.551	
Total BTEX	<0.300	0.300	10/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	96.0	16.0	10/05/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	191	95.3	200	9.47	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	197	98.7	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ANSOLVUM, LLC
 Project Manager: Tim Jell
 Address: 622 N AT1 Parks Hwy
 City: Lusk State: NM zip: 88220
 Phone #: 720-384-7365 Fax #: -
 Project #: 06D2057012 Project Owner: Maverick
 Project Name: ANSOLVUM SAT 5
 Project Location: 32,800667 -108,481389
 Sampler Name: Jalovna Falconmata
 P.O. #: AA
 Company: ANSOLVUM, LLC
 Attn: -
 Address: -
 City: -
 State: - Zip: -
 Phone #: -
 Fax #: -

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H235404</u>	<u>FS12 @ 4.5'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1230</u>	<u>BTEX</u>
	<u>FS13 @ 4.5'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1235</u>	<u>TPH</u>
	<u>SU10 @ 0-4.5'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1240</u>	<u>ONlorides</u>
	<u>SU11 @ 0-4.5'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1245</u>	
	<u>FS14 @ 3'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1250</u>	
	<u>FS15 @ 3'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1255</u>	
	<u>SU12 @ 0-3'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1300</u>	
	<u>SU13 @ 0-3'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1305</u>	
	<u>PH13 @ 4.5'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1320</u>	
	<u>PH13 @ 4.5'</u>	<input checked="" type="checkbox"/>	<u>1</u>			<input checked="" type="checkbox"/>				<u>10/9/23</u>	<u>1325</u>	

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Relinquished By: [Signature] Date: 10-4-23
 Received By: [Signature] Date: 10-4-23
 Relinquished By: [Signature] Date: 10-4-23
 Received By: [Signature] Date: 10-4-23

Delivered By: (Circle One) UPS Observed Temp. °C 4.8
 Sampler - UPS - Bus - Other: UPS Corrected Temp. °C 4.8
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Turnaround Time: Standard Bacteria (only)
 Thermometer ID #140 244 Corrected Temp. °C 4.8
 Correction Factor 0°C 0.0 Sample Condition: Observed Temp. °C 4.8
 Corrected Temp. °C 4.8

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



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

October 10, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/04/23 15:04.

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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 08 @ 0-4.5' (H235407-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	112	16.0	10/06/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	210	105	200	0.123	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	220	110	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 09 @ 0-4.5' (H235407-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	96.0	16.0	10/06/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	210	105	200	0.123	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	220	110	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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

- 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: ONSOLVM LLC
 Project Manager: Aimee Bell
 Address: 802 Nat'l Parks Hwy
 City: arts and crafts State: NM zip: 88220
 Phone #: 720-364-7365 Fax #: -
 Project #: 0320057012 Project Owner: Mauerlich
 Project Name: EVASAU SATS
 Project Location: 82.806667, -103.481389
 Sampler Name: Jalanna Felcomata

P.O. #: A.H.
 Company:
 Attn:
 Address:
 City:
 State:
 Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	ANALYSIS REQUEST
		(G)RAB OR (C)OMP.	# CONTAINERS				
<u>H235407</u>	<u>SW08 @ 0-4.5'</u>	<u>↓</u>	<u>↓</u>	GROUNDWATER			<u>BTEX</u>
	<u>SW09 @ 0-4.5'</u>	<u>↓</u>	<u>↓</u>	WASTEWATER			<u>TPH</u>
				SOIL			<u>Chlorides</u>
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL	<u>✓</u>		
				OTHER :			
				DATE	<u>10/4/23</u>		
				TIME	<u>1310</u>		

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Relinquished By: [Signature] Date: 10-4-23 Received By: [Signature] Date: 10-4-23
 Relinquished By: [Signature] Date: 10-4-23 Received By: [Signature] Date: 10-4-23

Delivered By: (Circle One) UPS Observed Temp. °C 48 Sample Condition Intact CHECKED BY: [Signature] Turnaround Time: Standard Bacteria (only) Sample Condition Intact
 Sampler - UPS - Bus - Other: Corrected Temp. °C 48 Yes No Intact Yes No Cool Yes No Intact Yes No Cool Yes No

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



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

October 10, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 10:47.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 16 @ 2.5' (H235476-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	4.05		
Toluene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	3.25		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.02	101	2.00	4.37		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.04	101	6.00	3.55		
Total BTEX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	48.0	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36		
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2		
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 17 @ 2.5' (H235476-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	4.05	
Toluene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	3.25	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.02	101	2.00	4.37	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.04	101	6.00	3.55	
Total BTEX	<0.300	0.300	10/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	48.0	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: FS 18 @ 2.5' (H235476-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	4.05	
Toluene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	3.25	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.02	101	2.00	4.37	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.04	101	6.00	3.55	
Total BTEX	<0.300	0.300	10/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	352	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: BH 01 @ 2.5' (H235476-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	4.05	
Toluene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	3.25	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.02	101	2.00	4.37	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.04	101	6.00	3.55	
Total BTEX	<0.300	0.300	10/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 14 @ 0-2.5' (H235476-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	4.05		
Toluene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	3.25		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.02	101	2.00	4.37		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.04	101	6.00	3.55		
Total BTEX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36		
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2		
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SW 15 @ 0-2.5' (H235476-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	4.05	
Toluene*	<0.050	0.050	10/09/2023	ND	2.08	104	2.00	3.25	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.02	101	2.00	4.37	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.04	101	6.00	3.55	
Total BTEX	<0.300	0.300	10/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC P.O. #: A.A. ANALYSIS REQUEST

Project Manager: Aimee Cole Company: _____

Address: 8122 Natl Parks Hwy Attn: _____

City: Outboard State: NM zip: 88220 Address: _____

Phone #: 720-384-7865 Fax #: _____ City: _____

Project #: DBD2057 012 Project Owner: Maverick State: _____ Zip: _____

Project Name: CVGSHAU Satellite 5 Phone #: _____

Project Location: 8280667, -103431389 Fax #: _____

Sampler Name: Julianne Falcone

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H335476</u>	<u>FS16 @ 2.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>10/13</u>	<u>1800</u>	<u>BTEX</u>	
	<u>FS17 @ 2.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>1810</u>	<u>1815</u>	<u>TPH</u>	
	<u>FS14 @ 2.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>1320</u>	<u>1325</u>	<u>Chlorides</u>	
	<u>BH01 @ 2.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>								
	<u>SW14 @ 0-2.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>								
	<u>SW15 @ 0-2.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>								

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Relinquished By: [Signature] Date: 12-9-23 Received By: [Signature] Verbal Result: Yes No Add'l Phone #: _____
 Time: 1047 Date: 10/17 Received By: [Signature] All Results are emailed. Please provide Email address: me@ensolum.com
 Relinquished By: [Signature] Date: _____ Received By: [Signature] REMARKS: me@ensolum.com falcone@ensolum.com

Delivered By: (Circle One) Observed Temp. °C 117 Sample Condition Intact Cool Yes No Intact Yes No CHECKED BY: [Signature] Turnaround Time: _____ Standard Bacteria (only) Cool Intact Yes No Intact Yes No
 Sampler - UPS - Bus - Other: _____ Corrected Temp. °C _____ Thermometer ID #140 24hr Bacteria (only) Cool Intact Yes No Intact Yes No Corrected Temp. °C _____
 FORM-006 R-3-1 07/17/23

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



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

October 12, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 10:47.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SS 08 @ .5' (H235477-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	80.0	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.777	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	223	111	200	0.130	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: SS 07A @ 1' (H235477-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	336	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	QM-07
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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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

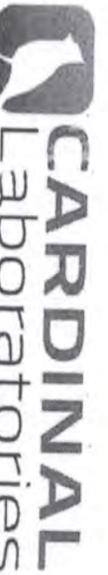
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Celey D. Keene

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

BILL TO

ANALYSIS REQUEST

Company Name: ENSOLUM, LLC
 Project Manager: Aimee Lyle
 Address: 8122 North Parks Hwy
 City: Carlsbad State: NM zip: 88220
 Phone #: 720-384-7845 Fax #: -
 Project #: D8D2057 012 Project Owner: Maurice
 Project Name: CVGSAU Satellite 5
 Project Location: 82.80667, -108.41389
 Sampler Name: Jillanna Falcornata

P.O. #: A.A.
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #: Zip:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				
<u>H235477</u>	<u>SS08 @.S'</u>	<u>1</u>	<u>1</u>			<u>X</u>					<u>X</u>	<u>10/6/23</u>	<u>1300</u>	<u>BTEX</u>
	<u>SS07A @.S'</u>	<u>2</u>	<u>1</u>			<u>X</u>					<u>X</u>	<u>1305</u>	<u>1305</u>	<u>TPH</u>
											<u>X</u>			<u>Chlorides</u>

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Relinquished By: [Signature]
 Date: 10-9-23

Received By: [Signature]
 Date: 10/6/23
 Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: ensolum.com falcornata@ensolum.com

Delivered By: (Circle One) UPS
 Observed Temp. °C: 17
 Corrected Temp. °C:
 Sample Condition: Cool Intact
 Checked By: (Initials) AB
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp. °C:

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



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

October 12, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 10:47.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 04 @ 1' (H235478-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	176	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.1 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 04 @ 4' (H235478-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	192	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 64.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ENSOLUM, LLC Project Manager: Aimee Lytle Address: 8122 North Parks Hwy City: Norshoob State: NM zip: 88220 Phone #: 720-384-7845 Fax #: - Project #: DBD2057 012 Project Owner: Mowenick Project Name: CVE85AU Satellite 5 Project Location: 82.80667 -108.43889 Sampler Name: Julianne Fallomator		P.O. #: A.A. Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
Lab I.D. H235478 Sample I.D. PHD4 1 2 PHD4 4		(G)RAB OR (C)OMP. ↓ # CONTAINERS ↓ GROUNDWATER WASTEWATER SOIL X OIL SLUDGE OTHER : ACID/BASE: ICE / COOL X OTHER :	
Date: 12-9-23 Time: 10:47 Date: 12-16-23 Time: 09:05		RECEIVED BY: [Signature] CHECKED BY: [Signature] DATE: 12/16/23 TIME: 09:05	
Relinquished By: [Signature] Relinquished Date:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Delivered By: (Circle One) UPS - Bus - Other:		Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush Bacteria (only) Sample Condition Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	
Observed Temp. °C 17 Corrected Temp. °C		REMARKS: new@ensolum.com falcomator@ensolum.com	

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



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

October 12, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 10:47.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 05 @ 1' (H235479-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	176	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 05 @ 4' (H235479-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	224	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.0 % 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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

October 12, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

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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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 06 @ 1' (H235480-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	112	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 06 @ 4' (H235480-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	208	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ENSOLUM, LLC Project Manager: Aimee York Address: 8122 Natl Parks Hwy City: Cartersbad State: NM zip: 88220 Phone #: 720-384-7865 Fax #: - Project #: DSD2057 012 Project Owner: Mowenick Project Name: CVGSAU Satellite 5 Project Location: 82.80667, -103.43389 Sampler Name: Julianne Falconer		BILL TO P.O. #: A.A. Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
Lab I.D. H235488 Sample I.D. PH06 @ 1' PH06 @ 4'		(G)RAB OR (C)OMP. ↓ # CONTAINERS ↓ MATRIX: GROUNDWATER WASTEWATER SOIL X ↓ OIL SLUDGE OTHER: ACID/BASE: ICE / COOL X ↓ OTHER:	
Date: 12-9-23 Received By: [Signature] Time: 10:47 Date: 12-9-23 Received By: [Signature] Time:		DATE 12/9/23 TIME 0920 DATE 12/9/23 TIME 0925	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 17 Corrected Temp. °C Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) [Signature]	
Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #40 Correction Factor °C Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: msol@ensolum.com falconer@ensolum.com	

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



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

October 12, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 10:47.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 07 @ 1' (H235481-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	240	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 07 @ 4' (H235481-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: ENSOLUM, LLC
 Project Manager: Aimee Noble
 Address: 8122 Nat'l Parks Hwy
 City: Carlsbad State: NM zip: 88220
 Phone #: 720-384-7845 Fax #: -
 Project #: 03D2057 012 Project Owner: Mouwrick
 Project Name: CVGSHU Satellite 5
 Project Location: 8280667-103481389
 Sampler Name: Julianne Falconer

P.O. #: A.A.
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV/	DATE	TIME	ANALYSIS REQUEST						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				ACID/BASE:	ICE / COOL	OTHER :				
<u>H235481</u>	<u>PH01 @ 1'</u> <u>PH01 @ 4'</u>	<u>↓</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>10/6/23</u>	<u>0930</u>	<u>↓</u>	<u>X</u>	<u>↓</u>	<u>X</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides</u>

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, successors including any " " 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: [Signature]
 Date: 10-9-23
 Time: 10:47

Received By: [Signature]
 Date: 10/6/23
 Time: 0935

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: ensolum.com falconer@ensolum.com

Delivered By: (Circle One) UPS - Bus - Other:
 Observed Temp. °C 17
 Corrected Temp. °C
 Sample Condition: Intact Broken
 Checked By: [Signature]
 Turnaround Time:
 Thermometer ID #140
 Correction Factor 0°C
 Standard Add'l
 Bacteria (only) Cool Intact Observed Temp. °C
 Corrected Temp. °C

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



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

October 12, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 10:47.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 08 @ 1' (H235482-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	160	16.0	10/10/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 08 @ 4' (H235482-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	208	16.0	10/10/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (30) days after completion of the applicable service. 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

October 12, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU SATELLITE 5

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 10:47.

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:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 09 @ 1' (H235483-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	256	16.0	10/10/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	10/09/2023	Sampling Date:	10/06/2023
Reported:	10/12/2023	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 5	Sampling Condition:	Cool & Intact
Project Number:	03D2057012	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.80667-103.431389)		

Sample ID: PH 09 @ 4' (H235483-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.06	103	2.00	3.36	
Toluene*	<0.050	0.050	10/10/2023	ND	2.08	104	2.00	3.86	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	5.94	99.0	6.00	1.68	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	10/10/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	196	98.1	200	0.00	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	221	110	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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

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

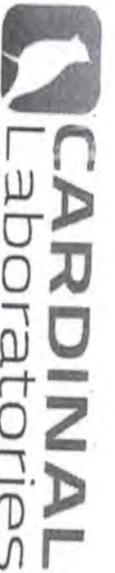
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ENSOLUM, LLC P.O. #: A.A. ANALYSIS REQUEST

Project Manager: Aimee Lytle Company: A.A.

Address: 8112 North Parks Hwy Attn:

City: Cartersood State: NM zip: 88220

Phone #: 720-384-7865 Fax #: -

Project #: D8D2057 D12 Project Owner: Mouwrick

Project Name: CVGSAU Satellite 5

Project Location: 82580667-103431389

Sampler Name: Julianne Falcone

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
<u>H2352483</u>	<u>PH09 @ 1'</u>	<u>↓</u>	<u>1</u>	<u>SOIL</u>	<u>X</u>	<u>X</u>	<u>10/6/25</u>	<u>0950</u>	<u>BTEX</u>
	<u>PH09 @ 4'</u>	<u>↓</u>						<u>0955</u>	<u>TPH</u>
									<u>Chlorides</u>

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 contract or otherwise.

Relinquished By: [Signature] Date: 10-9-23 Received By: [Signature] Date: 10-9-23

Relinquished By: [Signature] Date: 10-9-23 Received By: [Signature] Date: 10-9-23

Delivered By: (Circle One) Observed Temp. °C 17 Corrected Temp. °C

Sampler - UPS - Bus - Other: Sample Condition: Cool Intact Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C Corrected Temp. °C

Turnaround Time: Standard Rush Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C Corrected Temp. °C

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



APPENDIX E
NMOCD Notifications

From: OCDOnline@state.nm.us
To: [Kalei Jennings](#)
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 155449
Date: Tuesday, November 29, 2022 9:44:53 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for Maverick Permian LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213957732, with the following conditions:

- **Remediation Plan Approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Nobui, Jennifer, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: FW: [EXTERNAL] Maverick- Sampling Notification (Week of 07/11/22-07/15/22)
Date: Friday, July 8, 2022 9:33:10 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Kalei

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Friday, July 8, 2022 8:13 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] Maverick- Sampling Notification (Week of 07/11/22-07/15/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, July 7, 2022 2:19 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 07/11/22-07/15/22)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Maverick Natural Resources plans to complete final sampling activities at the following sites the week of July 11, 2022.

Monday:

Tuesday:

- EVGSAU Satellite 5 / NAPP2213957732

Wednesday:

Thursday:

- MCA 417 / NAPP2204841206

Friday:

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



From: [Enviro, OCD, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 01/09/2023)
Date: Thursday, January 5, 2023 8:50:25 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Kalei,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, January 4, 2023 5:08 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hadlie Green <hgreen@ensolum.com>; Josh Adams <jadams@ensolum.com>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 01/09/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of January 9, 2023.

- Oxy State F-1 / NAPP2235375291
- Jalmat 188 / NAPP2235373931
- Baish B Battery / NAPP2235372941

- MCA Battery #4 / NAPP2235376218
- VGEU 30-01 / NAPP2200643457
- EVGSAU Satellite 5 / NAPP2213957732

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



From: [Nobui, Jennifer, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: FW: [EXTERNAL] Maverick- Sampling Notification (Week of 10/17/22-10/21/22)
Date: Monday, October 17, 2022 8:23:55 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Kalei

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, October 17, 2022 8:11 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] Maverick- Sampling Notification (Week of 10/17/22-10/21/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Saturday, October 15, 2022 8:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 10/17/22-10/21/22)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Maverick Natural Resources plans to complete final sampling activities at the following sites the week of October 17, 2022.

Monday:

Tuesday:

- VGEU 30-01 / NAPP2200643457

Wednesday:

- Elvis Injection Line / NAPP2213642290

Thursday:

- Elvis Injection Line / NAPP2213642290

Friday:

- Elvis Injection Line / NAPP2213642290

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



From: [Rodgers, Scott, EMNRD](#)
To: [Aimee Cole](#)
Cc: [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 9/18/2023)
Date: Wednesday, September 13, 2023 2:20:38 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

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[**EXTERNAL EMAIL**]

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide a date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,
Scott

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oqd>



From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, September 13, 2023 2:51 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 9/18/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of September 18, 2023.

- MCA 95 / NAPP2306757137
 - Sampling Dates: 9/18/2023 – 9/20/2023

- MCA 1 South Transfer Line / nAPP2314650185
 - Sampling Dates: 9/20/2023 – 9/22/2023
- EVGSAU Satellite 5 / NAPP2213957732
 - Sampling Dates: 9/21/2023 – 9/22/2023

Thank you,



Aimee Cole

Senior Managing Scientist

720-384-7365

Ensolum, LLC



From: [Aimee Cole](#)
To: ocd.enviro@state.nm.us
Subject: RE: Maverick - Sampling Notification (Week of 9/25/2023)
Date: Wednesday, September 20, 2023 1:24:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of September 25, 2023.

- MCA 1 South Transfer Line / nAPP2314650185
 - Sampling Dates: 9/25/2023 – 9/27/2023

- EVGSAU Satellite 5 / NAPP2213957732
 - Sampling Dates: 9/27/2023 – 9/28/2023

Thank you,



Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC


From: [Rodgers, Scott, EMNRD](#)
To: [Aimee Cole](#); [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 10/2/2023)
Date: Wednesday, September 27, 2023 3:53:30 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

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[**EXTERNAL EMAIL**]

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, September 27, 2023 4:06 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 10/2/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of October 2, 2023.

- MCA 1 South Transfer Line / nAPP2314650185
 - Sampling Dates: 10/2/2023 – 10/3/2023

- EVGSAU Satellite 5 / NAPP2213957732
 - Sampling Dates: 10/2/2023 – 10/3/2023

Thank you,



Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC





APPENDIX F
Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name _____ Title: _____ Signature: <u></u> _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____

L48 Spill Volume Estimate Form

Received by OCD: 12/15/2023 11:03:32 AM

Number: EVGSAU SATELLITE 5

Page 166 of 177

Asset Area: SENM (Buckeye)

Release Discovery Date & Time: 5/5/2022

Release Type: Oil Mixture

Provide any known details about the event: COMING INTO WORK MY ROUTE PARTNER SMELLED OIL AND DROVE BY SATELLITE 5 AND FOUND TRANFER PUMP LEAKING . RECOVERED 2 BBLS .

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?

On Pad - 10.5%; Off Pad - 15.12% soil spilled-fluid saturation factor

Has it rained at least a half inch in the last 24 hours?

Yes, On Pad - 8%; Off Pad - 13.57% soil spilled-fluid saturation factor; if No, use factors above.

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	25.0	50.0	2.00	10.50%	37.083	3.894	5.00%	0.195	3.699
Rectangle B	60.0	40.0	3.00	13.50%	106.800	14.418	5.00%	0.721	13.697
Rectangle C					0.000	0.000		0.000	0.000
Rectangle D					0.000	0.000		0.000	0.000
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Total Volume Release:						18.312		0.916	17.396

Released to Imaging: 3/1/2024 11:22:16 AM

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Santa Fe, NM 87505

CONDITIONS

Action 108869

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 108869
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/19/2022

Incident ID	NAPP2213957732
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (feet bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

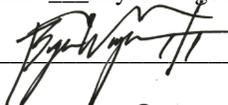
Page 4

Incident ID	NAPP2213957732
District RP	
Facility ID	
Application ID	

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.

Printed Name: Bryce Wagoner

Title: Permian HSE Specialist II

Signature: 

Date: 12/1/2023

email: bryce.wagoner@mavresources.com

Telephone: 928-241-1862

OCD Only

Received by: _____

Date: _____

Incident ID	NAPP2213957732
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

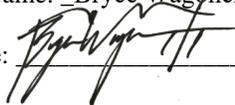
- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Bryce Wagoner Title: Permian HSE Specialist II

Signature:  Date: 12/1/2023

email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: _____ Date: _____

- Approved
 Approved with Attached Conditions of Approval
 Denied
 Deferral Approved

Signature: _____ Date: _____

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 292756

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 292756
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2213957732
Incident Name	NAPP2213957732 EVGSAU SATELLITE 5 @ 0
Incident Type	Release Other
Incident Status	Deferral Request Received
Incident Facility	[fAPP2129429201] EVLRP

Location of Release Source

Please answer all the questions in this group.

Site Name	EVGSAU SATELLITE 5
Date Release Discovered	05/05/2022
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Corrosion Pump Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Pump Produced Water Released: 17 BBL Recovered: 0 BBL Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 292756

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 292756
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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	<i>Not answered.</i>

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: Aimee Cole Email: acole@ensolum.com Date: 12/15/2023
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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 292756
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between ½ and 1 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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
<i>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.</i>	
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)	9950
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9827
GRO+DRO (EPA SW-846 Method 8015M)	8477
BTEX (EPA SW-846 Method 8021B or 8260B)	8.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes 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	09/21/2023
On what date will (or did) the final sampling or liner inspection occur	10/06/2023
On what date will (or was) the remediation complete(d)	10/06/2023
What is the estimated surface area (in square feet) that will be reclaimed	3600
What is the estimated volume (in cubic yards) that will be reclaimed	320
What is the estimated surface area (in square feet) that will be remediated	3600
What is the estimated volume (in cubic yards) that will be remediated	320

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 292756

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	292756
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	R360 Artesia LLC LANDFARM [FEEM0112340644]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 12/15/2023
--	--

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 5

Action 292756

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 292756
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	separators on concrete pads
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	950
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	140

Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.

Enter the facility ID (##) on which this deferral should be granted	EVGSAU SATELLITE #5 [FAC0620935644]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True

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: Aimee Cole Email: acole@ensolum.com Date: 12/15/2023
--	--

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QUESTIONS, Page 6

Action 292756

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 292756
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	292752
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/21/2023
What was the (estimated) number of samples that were to be gathered	33
What was the sampling surface area in square feet	3500

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 292756

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 292756
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Area around and underneath separators and headers represented by sample ID's SW01 through SW07 is approved for deferral. Site will need to be remediated and then reclaimed at time of a major facility deconstruction or at plugging and abandonment, whichever comes first.	3/1/2024