



October 10, 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: Closure Request
ABO 3 Battery
Incident Number NAPP2314448299
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared the following *Closure Request* to document assessment, excavation, and soil sampling activities performed at the ABO 3 Battery (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2314448299.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 34, Township 17 South, Range 35 East, in Lea County, New Mexico (32.7878430° N, -103.4502920° W) and is associated with oil and gas exploration and production operations on State Land managed by New Mexico State Land Office (NMSLO).

On May 22, 2023, a pressure valve failed on a separator and resulted in the release of approximately 5.0 barrels (bbls) of produced water and 0.5 bbls of crude oil. The released fluids sprayed onto the surface of the well pad including areas with active production equipment and multiple surface and subsurface lines. A vacuum truck was dispatched to the Site and recovered approximately 0.5 bbls of crude oil. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 5, 2023. The release was assigned Incident Number NAPP2314448299.

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).

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table 1, 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 between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted soil boring is New Mexico Office of the State Engineer (NMOSE) well L-14070, located approximately 300 feet east of the site. The soil boring was drilled during 2011 to a depth of 55 feet bgs and no groundwater was encountered. The soil boring was subsequently abandoned. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 550 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Site assessment and delineation activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five assessment soil samples (SS01 through SS05) were collected around the visible release extent at a depth of 0.25 feet bgs to confirm the lateral extent of the release. Three potholes (PH01 through PH03) were advanced via backhoe within the release extent to assess the vertical extent of the release. Soil from the potholes was field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix B. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.25 feet to 1.5 feet bgs. The release extent and 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 visits and a photographic log is included in Appendix C.

The assessment and delineation 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 Cardinal Laboratories for analysis of the following constituents of concern (COC): BTEX following



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United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS05, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the release. Laboratory analytical results for the delineation soil samples collected within the release extent from potholes PH01 through PH03, indicated that TPH concentrations exceeded the Site Closure Criteria at a depth of 0.25 feet bgs; all COC concentrations were compliant with the most stringent Table I Closure Criteria at a maximum depth of 1.5 feet bgs. Based on the laboratory analytical results, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between August 16, 2023, and September 8, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed utilizing a backhoe, hand shovels, hydrovac, and transport vehicles. The excavation was completed to depths ranging from 0.5 feet to 1-foot bgs.

Following removal of impacted soil, 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 FS37, FS03A, FS06A, FS07A, FS10A, FS11A, FS14A, FS15A, FS23A through FS26A, FS28A, FS29A, FS31A, and FS32A were collected from the floor of the excavation at depths ranging from 0.5 feet to 1 feet bgs. Due to the shallow depth of the excavation, soil from any sidewalls was incorporated into the floor samples. 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 handled and analyzed as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation soil samples FS01, FS02, FS03A, FS04, FS05, FS06A, FS07A, FS08, FS09, FS10A, FS11A, FS12, FS13, FS14A, FS15A, FS16 through FS22, FS23A through FS26A, FS27, FS28A, FS29A, FS30, FS31A, FS32A, and FS33 through FS37, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation floor samples FS03, FS06, FS07, FS10, FS11, FS14, FS15, FS23 through FS26, FS28, FS29, FS31, and FS32 initially exceeded the Site Closure Criteria for TPH; additional soil was removed from these areas and subsequent floor samples FS03A, FS06A, FS07A, FS10A, FS11A, FS14A, FS15A, FS23A, FS24A, FS25A, FS26A, FS28A, FS29A, FS31A, and FS32A were compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

To address residual petroleum hydrocarbons, a 5 percent (%) solution of Micro-Blaze[®] with freshwater was applied to the open excavation to promote natural attenuation of the hydrocarbons through biodegradation.

The excavation measured approximately 7,200 square feet in areal extent. A total of approximately 390 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico.

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CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 21, 2023, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Maverick will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions.

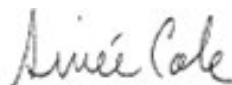
Initial response efforts, excavation of impacted soil, and application of Micro-Blaze® microbial amendment have mitigated impacts at this Site. Depth to groundwater was determined to be greater than 55 feet bgs within 300 feet of the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2314448299. NMOCD Notifications are included 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



Julianna Falcomata
Staff Geologist



Aimee Cole
Senior Managing Scientist

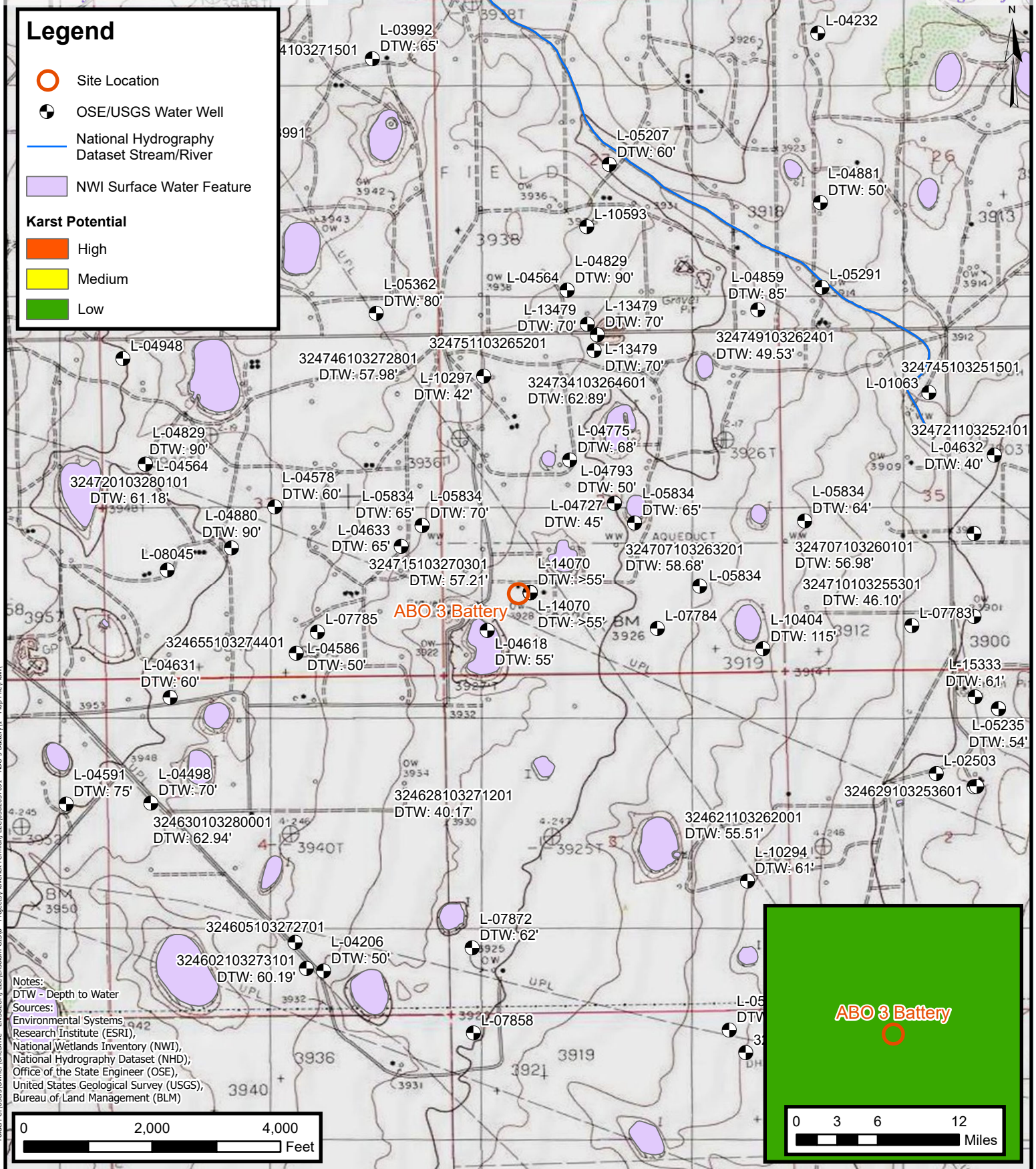
cc: Bryce Wagoner, Maverick Natural Resources
New Mexico State Land Office

Appendices:

| | |
|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Assessment and Delineation Soil Sample Locations |
| Figure 3 | Excavation Soil Sample Locations |
| 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 | Form C-141 |



FIGURES



Site Receptor Map

Maverick Permian, LLC

ABO 3 Battery

Incident Number: nAPP2314448299

Incident Number

Unit M, Sec 34, T17S, R35E





Lea County, New Mexico

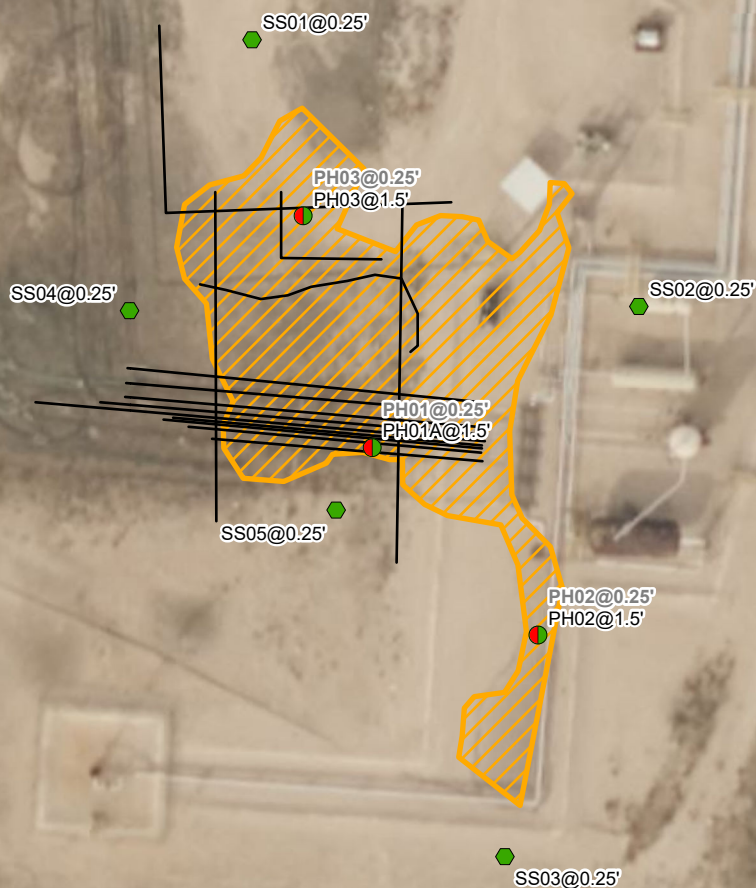
FIGURE

1



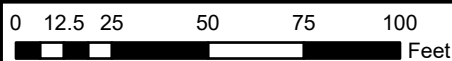
Legend

-  Delineation location with Terminus sample in Compliance with NMOCD Closure Criteria
-  Assessment Soil Sample in Compliance with NMOCD Closure Criteria
-  Pipeline/Line/Utility
-  Release Extent



Notes:

Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)



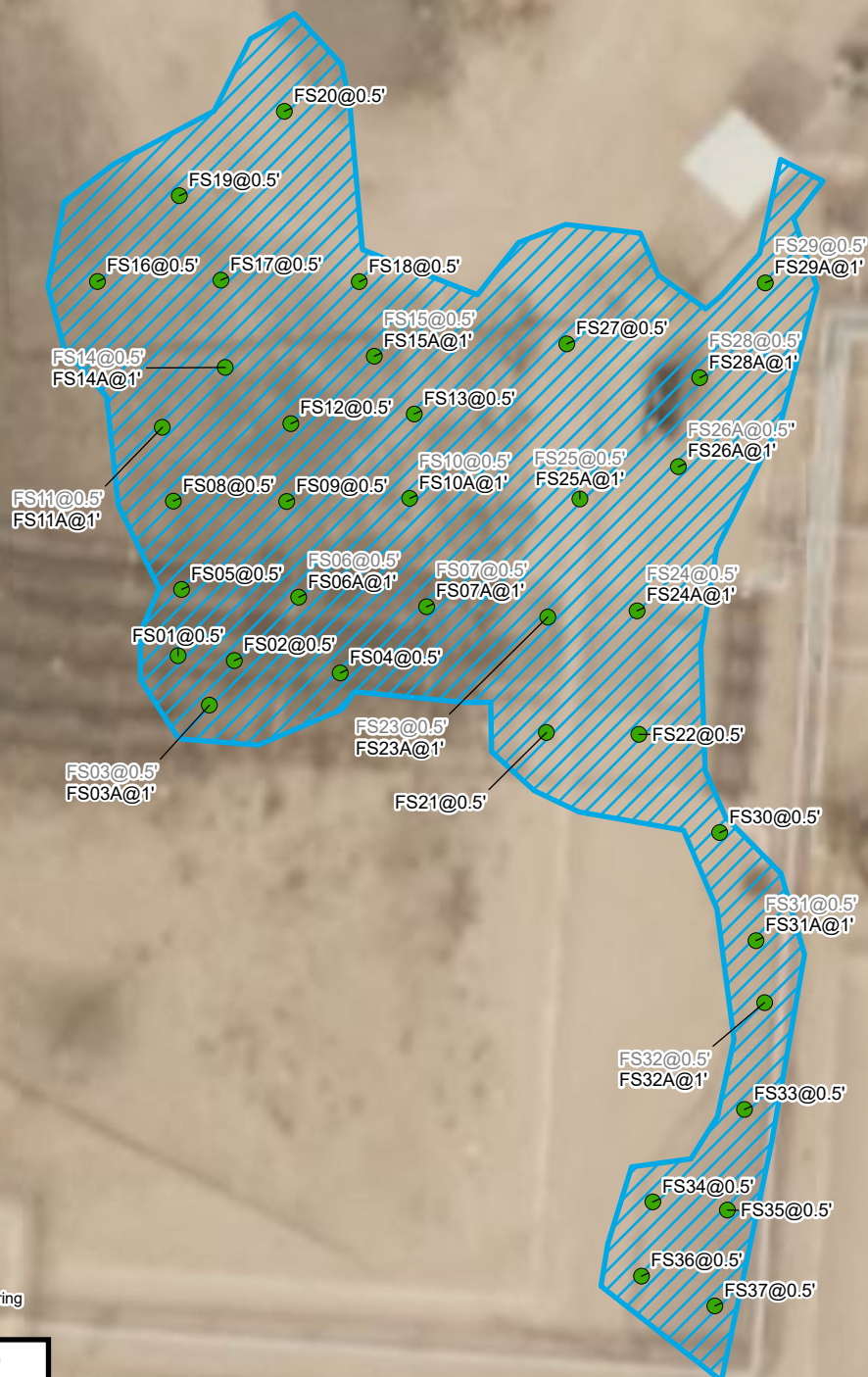
Assessment and Delineation Soil Sample Locations

Maverick Permian, LLC
 ABO 3 Battery
 Incident Number: nAPP2314448299
 Incident Number
 Unit M, Sec 34, T17S, R35E, Lea County, New Mexico

FIGURE
2

Legend

- Excavation Floor Sample
in Compliance with
NMOCD Closure Criteria
- ▨ Excavation Extent /
MicroBlaze Application
Area



Notes:
 Sample ID @ Depth Below Ground Surface.
 Grey text indicate soil sample was removed during
 excavation activities.

0 5 10 20 30 40
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

Maverick Permian, LLC
 ABO 3 Battery
 Incident Number: nAPP2314448299
 Incident Number
 Unit M, Sec 34, T17S, R35E
 Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

ABO 3 Battery
Maverick Permian, 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 | 1,000 | 2,500 | 10,000 |
| Assessment Soil Samples | | | | | | | | | | |
| SS01 | 8/23/2023 | 0.25 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| SS02 | 8/23/2023 | 0.25 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SS03 | 8/23/2023 | 0.25 | <0.050 | <0.300 | <50.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SS04 | 8/23/2023 | 0.25 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| SS05 | 10/4/2023 | 0.25 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| Delineation Soil Samples | | | | | | | | | | |
| PH01 | 8/23/2023 | 0.25 | <0.050 | 45 | 925 | 5,620 | 1,030 | 6,545 | 7,575 | 960 |
| PH01A | 8/23/2023 | 1.5 | <0.100 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16 |
| PH02 | 8/23/2023 | 0.25 | <0.050 | 17.9 | 1,080 | 9,850 | 1,980 | 11,830 | 13,810 | 2,600 |
| PH02A | 8/23/2023 | 1.5 | <0.050 | <0.300 | <10 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| PH03 | 8/23/2023 | 0.25 | <0.050 | <0.300 | <50.0 | 1490 | 769 | 1490 | 2259 | 176 |
| PH03A | 8/23/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 236 | 64.2 | 236 | 300 | 352 |
| PH03B | 9/8/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| Excavation Soil Samples | | | | | | | | | | |
| FS01 | 8/16/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 13.7 | <10.0 | 13.7 | 13.7 | 128 |
| FS02 | 8/16/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 24.9 | <10.0 | 24.9 | 24.9 | 192 |
| FS03 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 2,410 | 634 | 2,410 | 3,044 | 400 |
| FS03A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 555 | 162 | 555 | 717 | 176 |
| FS04 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 662 | 232 | 894 | 894 | 352 |
| FS05 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 379 | 164 | 543 | 543 | 320 |
| FS06 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 1,030 | 349 | 1,030 | 1,379 | 608 |
| FS06A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 673 | 196 | 673 | 869 | 272 |
| FS07 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 2,260 | 584 | 2,260 | 2,844 | 400 |
| FS07A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 104 | 27.6 | 104 | 132 | 400 |
| FS08 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 733 | 253 | 733 | 986 | 336 |
| FS09 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 407 | 178 | 407 | 585 | 304 |



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 ABO 3 Battery
 Maverick Permian, 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 | 1,000 | 2,500 | 10,000 |
| FS10 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 842 | 276 | 842 | 1,118 | 576 |
| FS10A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 659 | 211 | 659 | 870 | 224 |
| FS11 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 2,270 | 627 | 2,270 | 2,897 | 384 |
| FS11A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 82.5 | 21.6 | 82.5 | 104 | 192 |
| FS12 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 653 | 200 | 653 | 853 | 336 |
| FS13 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 266 | 106 | 266 | 372 | 272 |
| FS14 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 892 | 301 | 892 | 1,193 | 560 |
| FS14A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 753 | 218 | 753 | 971 | 208 |
| FS15 | 8/22/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 2,710 | 680 | 2,710 | 3,390 | 352 |
| FS15A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 76.6 | 19.5 | 76.6 | 96 | 208 |
| FS16 | 8/25/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 245 | 63.5 | 245 | 309 | 400 |
| FS17 | 8/25/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 338 | 95.3 | 338 | 433 | 320 |
| FS18 | 8/25/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 212 | 54.0 | 212 | 266 | 320 |
| FS19 | 8/25/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 132 | 46.4 | 132 | 178 | 96.0 |
| FS20 | 8/25/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 121 | 34.5 | 156 | 190 | 80.0 |
| FS21 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 132 | 44.7 | 177 | 221 | 2,360 |
| FS22 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 657 | 242 | 899 | 1,141 | 2,880 |
| FS23 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <50.0 | 10,800 | 3,750 | 10,800 | 14,550 | 2,360 |
| FS23A | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 183 | 51.5 | 183 | 235 | 304 |
| FS24 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <50.0 | 3,740 | 1,230 | 3,740 | 4,970 | 912 |
| FS24A | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 172 | 29.7 | 172 | 202 | 560 |
| FS25 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 3,650 | 883 | 3,650 | 4,533 | 4,960 |
| FS25A | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 227 | 87.2 | 227 | 314 | 128 |
| FS26 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 1,000 | 436 | 1,000 | 1,436 | 1,880 |
| FS26A | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 278 | 61.1 | 278 | 339 | 544 |
| FS27 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 676 | 326 | 676 | 1,002 | 2,200 |



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 ABO 3 Battery
 Maverick Permian, 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 | 1,000 | 2,500 | 10,000 |
| FS28 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <50.0 | 9,640 | 2,860 | 9,640 | 12,500 | 3,160 |
| FS28A | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 195 | 78.9 | 195 | 274 | 112 |
| FS29 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <50.0 | 4,320 | 1,480 | 4,320 | 5,801 | 1,200 |
| FS29A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 85.1 | 19.5 | 85.1 | 105 | 736 |
| FS30 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 198 | 198 | 71.1 | 269 | 2,120 |
| FS31 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <50.0 | 3,820 | 976 | 3,820 | 4,796 | 1,800 |
| FS31A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 600 | 148 | 600 | 748 | 1,100 |
| FS32 | 8/28/2023 | 0.5 | <0.050 | <0.300 | <50.0 | 4,720 | 1,100 | 4,720 | 5,820 | 1,300 |
| FS32A | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 505 | 127 | 505 | 632 | 1,100 |
| FS33 | 9/7/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 137 | 30.6 | 137 | 168 | 880 |
| FS34 | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 739 | 215 | 739 | 954 | 320 |
| FS35 | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 179 | 69.5 | 179 | 249 | 112 |
| FS36 | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 578 | 152 | 578 | 750 | 304 |
| FS37 | 9/8/2023 | 1.0 | <0.050 | <0.300 | <10.0 | 208 | 66.0 | 208 | 274 | 272 |

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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|---|---|-----------|--------------------------|--|------------------------------|---|---|--|
| 1. GENERAL AND WELL LOCATION | POD NUMBER (WELL NUMBER) | | | | OSE FILE NUMBER(S) | | | |
| | SB-1 / L-14070 | | | | | | | |
| | WELL OWNER NAME(S) | | | | PHONE (OPTIONAL) | | | |
| | Conoco Phillips | | | | | | | |
| | WELL OWNER MAILING ADDRESS | | | | CITY STATE ZIP | | | |
| HC 60 Box 66 | | | | Lovington NM 88260 | | | | |
| WELL LOCATION (FROM GPS) | DEGREES | | MINUTES | | SECONDS | | * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 | |
| | LATITUDE | | 32 47 15.10 N | | | | | |
| | LONGITUDE | | 103 27 0.60 W | | | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS | | | | | | | | |
| East Vac Abo Battery 3 | | | | | | | | |
| 2. OPTIONAL | (2.5 ACRE) | (10 ACRE) | (40 ACRE) | (160 ACRE) | SECTION | TOWNSHIP | RANGE | |
| | SW 1/4 | 1/4 | 1/4 | 1/4 | 34 | 17 | 35 | |
| | | | | | | <input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH | <input checked="" type="checkbox"/> EAST <input type="checkbox"/> WEST | |
| | SUBDIVISION NAME | | | | LOT NUMBER | BLOCK NUMBER | UNIT/TRACT | |
| HYDROGRAPHIC SURVEY | | | | | MAP NUMBER | | TRACT NUMBER | |
| 3. DRILLING INFORMATION | LICENSE NUMBER | | NAME OF LICENSED DRILLER | | | NAME OF WELL DRILLING COMPANY | | |
| | WD-1456 | | John W. White | | | White Drilling Company, Inc. | | |
| | DRILLING STARTED | | DRILLING ENDED | | DEPTH OF COMPLETED WELL (FT) | | BORE HOLE DEPTH (FT) | |
| | 6/20/2011 | | 6/20/2011 | | | | 55.0 | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | DEPTH WATER FIRST ENCOUNTERED (FT) | | |
| | | | | | | Dry | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: | | | | | | | |
| | DEPTH (FT) | | BORE HOLE DIA. (IN) | | CASING MATERIAL | | CONNECTION TYPE (CASING) | |
| | FROM | TO | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 4. WATER BEARING STRATA | DEPTH (FT) | | THICKNESS (FT) | FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | | | YIELD (GPM) | |
| | FROM | TO | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA | | | | | | TOTAL ESTIMATED WELL YIELD (GPM) | | |

FOR OSE INTERNAL USE

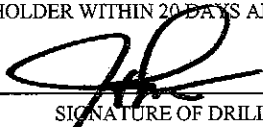
WELL RECORD & LOG (Version 6/9/08)

| | | |
|-------------|-------------|------------|
| FILE NUMBER | POD NUMBER | TRN NUMBER |
| LOCATION | PAGE 1 OF 2 | |

| | | | | | | | |
|-------------------------|--|------------|-----|------------------------|------------------------|----------------------|------------------------|
| 5. SEAL AND PUMP | TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP – WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER – SPECIFY: | | | | | | |
| | ANNULAR SEAL AND GRAVEL PACK | DEPTH (FT) | | BORE HOLE DIA. (IN) | MATERIAL TYPE AND SIZE | AMOUNT (CUBIC FT) | METHOD OF PLACEMENT |
| | | FROM | TO | | | | |
| | | 55.0 | 0.0 | | | | |
| | | | | | | | |
| | | | | | | | |

| | | | | | | |
|--------------------------------|--|------|-------------------|--|---|--|
| 6. GEOLOGIC LOG OF WELL | DEPTH (FT) | | THICKNESS (FT) | COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | WATER BEARING? | |
| | FROM | TO | | | | |
| | 0.0 | 10.0 | 10.0 | Tan silty clay sand (hydrocarbon stained). | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| | 10.0 | 15.0 | 5.0 | Limestone. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| | 15.0 | 55.0 | 40.0 | Tan sand. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL | | | | | |

| | | | | | |
|--------------------------------------|--|--|--|--|--|
| 7. TEST & ADDITIONAL INFO | WELL TEST | METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER – SPECIFY: | | | |
| | | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | |
| | ADDITIONAL STATEMENTS OR EXPLANATIONS: | | | | |

| | | |
|---------------------|---|----------------------------|
| 8. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: | |
| |  _____ SIGNATURE OF DRILLER | 8/16/2011 _____ DATE |

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

| | | |
|-------------|-------------|------------|
| FILE NUMBER | POD NUMBER | TRN NUMBER |
| LOCATION | PAGE 2 OF 2 | |



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|---|---|---------------------------|---|--------------------|---|---|------------------------------|--------------|
| 1. GENERAL AND WELL LOCATION | POD NUMBER (WELL NUMBER) SB-3 / L-14070 | | | | OSE FILE NUMBER(S) | | | |
| | WELL OWNER NAME(S) Conoco Phillips | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS HC 60 Box 66 | | | | CITY Lovington | | STATE NM | ZIP 88260 |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 47 | SECONDS 14.90 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 | | | |
| 2. OPTIONAL | LONGITUDE 103 | | | | 26 | | 57.50 W | |
| | DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS East Vac Abo Battery 3 | | | | | | | |
| | (2.5 ACRE) SW 1/4 | (10 ACRE) 1/4 | (40 ACRE) 1/4 | (160 ACRE) 1/4 | SECTION 34 | TOWNSHIP 17 | RANGE 35 | |
| | SUBDIVISION NAME | | | | LOT NUMBER | BLOCK NUMBER | UNIT/TRACT | |
| 3. DRILLING INFORMATION | HYDROGRAPHIC SURVEY | | | | MAP NUMBER | | TRACT NUMBER | |
| | LICENSE NUMBER WD-1456 | | NAME OF LICENSED DRILLER John W. White | | | NAME OF WELL DRILLING COMPANY White Drilling Company, Inc. | | |
| | DRILLING STARTED 7/25/2011 | | DRILLING ENDED 7/25/2011 | | DEPTH OF COMPLETED WELL (FT) | | BORE HOLE DEPTH (FT) 55.0 | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | DEPTH WATER FIRST ENCOUNTERED (FT) Dry | | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY: | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry | | | |
| | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: | | | | | | | |
| | DEPTH (FT) FROM TO | | BORE HOLE DIA. (IN) | | CASING MATERIAL | | CONNECTION TYPE (CASING) | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 4. WATER BEARING STRATA | DEPTH (FT) FROM TO | | THICKNESS (FT) | | FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | | | YIELD (GPM) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA | | | | | | TOTAL ESTIMATED WELL YIELD (GPM) | | |

FOR OSE INTERNAL USE

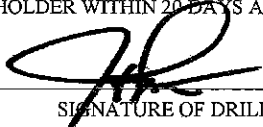
WELL RECORD & LOG (Version 6/9/08)

| | | |
|-------------|-------------|------------|
| FILE NUMBER | POD NUMBER | TRN NUMBER |
| LOCATION | PAGE 1 OF 2 | |

| | | | | | | | |
|-------------------------|--|------------|-----|---------------------|------------------------|-------------------|---------------------|
| 5. SEAL AND PUMP | TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP – WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER – SPECIFY: | | | | | | |
| | ANNULAR SEAL AND GRAVEL PACK | DEPTH (FT) | | BORE HOLE DIA. (IN) | MATERIAL TYPE AND SIZE | AMOUNT (CUBIC FT) | METHOD OF PLACEMENT |
| | | FROM | TO | | | | |
| | | 55.0 | 2.0 | 6.5 | Bentonite Pellets | 9 sacks | Hand Mix |
| | | 2.0 | 0.0 | 6.5 | Cement | 0.4608 | Hand Mix |
| | | | | | | | |

| | | | | | | |
|--------------------------------|--|------|----------------|--|---|--|
| 6. GEOLOGIC LOG OF WELL | DEPTH (FT) | | THICKNESS (FT) | COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | WATER BEARING? | |
| | FROM | TO | | | | |
| | 0.0 | 5.0 | 5.0 | Black sandy clay. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| | 5.0 | 18.0 | 13.0 | Caliche w/limestone layers. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| | 18.0 | 24.0 | 6.0 | Tan sand w/caliche. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| | 24.0 | 57.5 | 33.5 | Tan sand. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL | | | | | |

| | | |
|--------------------------------------|--|---|
| 7. TEST & ADDITIONAL INFO | WELL TEST | METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER – SPECIFY: |
| | | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
| | ADDITIONAL STATEMENTS OR EXPLANATIONS: | |

| | | |
|---------------------|---|----------------------------|
| 8. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: | |
| |  _____ SIGNATURE OF DRILLER | 8/16/2011 _____ DATE |

FOR OSE INTERNAL USE


WELL RECORD & LOG (Version 6/9/08)


| | | |
|-------------|-------------|------------|
| FILE NUMBER | POD NUMBER | TRN NUMBER |
| LOCATION | PAGE 2 OF 2 | |




APPENDIX B

Lithologic Soil Sampling Logs

|  ENSOLUM | | | | | | | | Sample Name: PH01 | | Date: 8/23/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|-------------------|--|
| | | | | | | | | Site Name: ABO 3 Battery | | | |
| | | | | | | | | Incident Number: nAPP2314448299 | | | |
| | | | | | | | | Job Number: 03D2057091 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Julianna Falcomata | | Method: Backhoe | |
| Coordinates: (32.787256, -103.450518) | | | | | | | | Hole Diameter: | | Total Depth: 1.5' | |
| 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. 40% correction factor is included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| Dry | 1,092 | 1,100 | Y | PH01 | 0.25 | 0.25 | CHHE | (0.25') CALICHE: medium grained, trace amounts of silt, poorly graded, tan, strong hydrocarbon odor. | | | |
| Dry | 853 | 8.6 | N | - | - | 1.0 | CHHE | (1.0') CALICHE: SAA | | | |
| Dry | <168 | 0.4 | N | PH01A | 1.5 | 1.5 | CHHE | (1.5') CALICHE: medium grained, trace amounts of silt and clay, poorly graded, tan, no odor. | | | |
| TD reached @ 1.5' bgs | | | | | | | | | | | |
| <div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div> | | | | | | | | | | | |

|  ENSOLUM | | | | | | | | Sample Name: PH02 | | Date: 8/23/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|-------------------|--|
| | | | | | | | | Site Name: ABO 3 Battery | | | |
| | | | | | | | | Incident Number: nAPP2314448299 | | | |
| | | | | | | | | Job Number: 03D2057091 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Julianna Falcomata | | Method: Backhoe | |
| Coordinates: (32.787120, -103.450380) | | | | | | | | Hole Diameter: | | Total Depth: 1.5' | |
| 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. 40% correction factor is included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| Dry | 1,590 | 277 | N | PH02 | 0.25 | 0.25 | CHHE | (0.25') CALICHE: medium grained, trace amounts of silt, poorly graded, tan, slight hydrocarbon odor. | | | |
| Dry | <168 | 3.2 | N | - | - | 1.0 | CHHE | (1.0') CALICHE: SAA with trace amounts clay. | | | |
| Dry | <168 | 0.3 | N | PH02A | 1.5 | 1.5 | CHHE | (1.5') CALICHE: medium grained, trace amounts of clay, poorly graded, tan to medium brown, no odor. | | | |
| TD reached @ 1.5' bgs | | | | | | | | | | | |

|  | | | | | | | | Sample Name: PH03 | | Date: 8/23/2023 | | | | | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|-------------------|--|--|--|--|--|
| | | | | | | | | Site Name: ABO 3 Battery | | | | | | | |
| | | | | | | | | Incident Number: nAPP2314448299 | | | | | | | |
| | | | | | | | | Job Number: 03D2057091 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Julianna Falcomata | | Method: Backhoe | | | | | |
| Coordinates: (32.787423, -103.450574) | | | | | | | | Hole Diameter: | | Total Depth: 1.5' | | | | | |
| 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. 40% correction factor is included. | | | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | | | |
| Dry | 219 | 5 | N | PH03 | 0.25 | 0.25 | CHHE | (0.25') CALICHE: medium grained, trace amounts of silt, poorly graded, tan, no hydrocarbon odor. | | | | | | | |
| Dry | <168 | 0.7 | N | PH03A | 1 | 1.0 | CHHE | (1.0') CALICHE: SAA | | | | | | | |
| Dry | <168 | 0.3 | N | PH03B | 1.5 | 1.5 | CHHE | (1.5') CALICHE: medium grained, trace amounts of silt, poorly graded, tan to light brown, no hydrocarbon odor. | | | | | | | |
| TD reached @ 1.5' bgs | | | | | | | | | | | | | | | |



APPENDIX C

Photographic Log



Photographic Log

Maverick Permian, LLC

ABO 3 Battery

NAPP2314448299



Photograph 1

Date: 6/30/2023

Description: Initial release staining

View: East



Photograph 2

Date: 8/24/2023

Description: Excavation activities

View: West



Photograph 3

Date: 8/25/2023

Description: Excavation activities

View: Southeast



Photograph 4

Date: 9/7/2023

Description: Completed excavation

View: Southeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

August 24, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO BATTERY 3

Enclosed are the results of analyses for samples received by the laboratory on 08/18/23 11:09.

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: 08/18/2023
 Reported: 08/24/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: 32.7878430,103.4502920

Sampling Date: 08/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 @ .5' (H234496-01)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/23/2023 | ND | 1.91 | 95.5 | 2.00 | 0.266 | |
| Toluene* | <0.050 | 0.050 | 08/23/2023 | ND | 1.87 | 93.6 | 2.00 | 1.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/23/2023 | ND | 1.99 | 99.7 | 2.00 | 0.773 | |
| Total Xylenes* | <0.150 | 0.150 | 08/23/2023 | ND | 5.87 | 97.9 | 6.00 | 2.02 | |
| Total BTX | <0.300 | 0.300 | 08/23/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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 | 128 | 16.0 | 08/22/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/22/2023 | ND | 197 | 98.7 | 200 | 5.16 | |
| DRO >C10-C28* | 13.7 | 10.0 | 08/22/2023 | ND | 200 | 99.8 | 200 | 3.01 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/22/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 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



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: 08/18/2023
 Reported: 08/24/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: 32.7878430,103.4502920

Sampling Date: 08/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 02 @ .5' (H234496-02)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/23/2023 | ND | 1.91 | 95.5 | 2.00 | 0.266 | | |
| Toluene* | <0.050 | 0.050 | 08/23/2023 | ND | 1.87 | 93.6 | 2.00 | 1.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/23/2023 | ND | 1.99 | 99.7 | 2.00 | 0.773 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/23/2023 | ND | 5.87 | 97.9 | 6.00 | 2.02 | | |
| Total BTEX | <0.300 | 0.300 | 08/23/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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 | 192 | 16.0 | 08/22/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/22/2023 | ND | 197 | 98.7 | 200 | 5.16 | |
| DRO >C10-C28* | 24.9 | 10.0 | 08/22/2023 | ND | 200 | 99.8 | 200 | 3.01 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/22/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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*=Accredited Analyte

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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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A handwritten signature in black ink, appearing to read "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

[illegible]



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

August 28, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO BATTERY 3

Enclosed are the results of analyses for samples received by the laboratory on 08/22/23 12:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 03 @ 0.5' (H234563-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | |
| Total BTEX | <0.300 | 0.300 | 08/24/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 2410 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 634 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 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: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 04 @ 0.5' (H234563-02)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | | |
| Total BTX | <0.300 | 0.300 | 08/24/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 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 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 662 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 232 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 05 @ 0.5' (H234563-03)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | | |
| Total BTEX | <0.300 | 0.300 | 08/24/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 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 | 320 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 379 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 164 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 06 @ 0.5' (H234563-04)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | | |
| Total BTX | <0.300 | 0.300 | 08/24/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 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 | 608 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 1030 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 349 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 07 @ 0.5' (H234563-05)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | | |
| Total BTEx | <0.300 | 0.300 | 08/24/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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 | 400 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 2260 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 584 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 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: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 08 @ 0.5' (H234563-06)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | | |
| Total BTX | <0.300 | 0.300 | 08/24/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 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 | 336 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 733 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 253 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 09 @ 0.5' (H234563-07)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | | |
| Total BTEx | <0.300 | 0.300 | 08/24/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 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 | 304 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 407 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 178 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 @ 0.5' (H234563-08)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/24/2023 | ND | 1.94 | 96.8 | 2.00 | 3.47 | | |
| Toluene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 1.09 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/24/2023 | ND | 2.20 | 110 | 2.00 | 0.0475 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/24/2023 | ND | 6.54 | 109 | 6.00 | 0.526 | | |
| Total BTX | <0.300 | 0.300 | 08/24/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 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 | 576 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 842 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 276 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 @ 0.5' (H234563-09)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.89 | 94.5 | 2.00 | 1.65 | | |
| Toluene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.88 | 94.2 | 2.00 | 0.877 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.97 | 98.3 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2023 | ND | 5.83 | 97.1 | 6.00 | 0.914 | | |
| Total BTEX | <0.300 | 0.300 | 08/25/2023 | 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 | 384 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| 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 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 2270 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 627 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 164 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 @ 0.5' (H234563-10)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.89 | 94.5 | 2.00 | 1.65 | | |
| Toluene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.88 | 94.2 | 2.00 | 0.877 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.97 | 98.3 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2023 | ND | 5.83 | 97.1 | 6.00 | 0.914 | | |
| Total BTEX | <0.300 | 0.300 | 08/25/2023 | 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 | 336 | 16.0 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 653 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 200 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 13 @ 0.5' (H234563-11)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.89 | 94.5 | 2.00 | 1.65 | | |
| Toluene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.88 | 94.2 | 2.00 | 0.877 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.97 | 98.3 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2023 | ND | 5.83 | 97.1 | 6.00 | 0.914 | | |
| Total BTEX | <0.300 | 0.300 | 08/25/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 266 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 106 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 @ 0.5' (H234563-12)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.89 | 94.5 | 2.00 | 1.65 | | |
| Toluene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.88 | 94.2 | 2.00 | 0.877 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.97 | 98.3 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2023 | ND | 5.83 | 97.1 | 6.00 | 0.914 | | |
| Total BTEX | <0.300 | 0.300 | 08/25/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 892 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 301 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,103.4502920

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 @ 0.5' (H234563-13)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.89 | 94.5 | 2.00 | 1.65 | | |
| Toluene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.88 | 94.2 | 2.00 | 0.877 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2023 | ND | 1.97 | 98.3 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2023 | ND | 5.83 | 97.1 | 6.00 | 0.914 | | |
| Total BTEX | <0.300 | 0.300 | 08/25/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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 | 08/24/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/24/2023 | ND | 151 | 75.3 | 200 | 2.23 | |
| DRO >C10-C28* | 2710 | 10.0 | 08/24/2023 | ND | 148 | 73.8 | 200 | 0.929 | |
| EXT DRO >C28-C36 | 680 | 10.0 | 08/24/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Notes and Definitions

| | |
|------|--|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "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: JAMES PATE Address: 8122 North Park Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 505-225-7061 Fax #: Project #: 190-384-7345 Project Name: A&B & Battery Project Location: (82,7878,4808-118,4502920) Sampler Name: Julianne Falcornata FOR LAB USE ONLY | | BILL TO P.O. #: Company: A.I.A. Attn: Address: City: State: Zip: Phone #: Fax #: | | ANALYSIS REQUEST | | | | | | | | | | | | |
| Lab I.D. Sample I.D. | Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: | Preserv ACID/BASE: ICE / COOL OTHER: | SAMPLING DATE TIME | BTEX TPH enclorides | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 1 | FS08 | 0.5' | G | 1 | 8/2/23 | 0900 | X | X | X | | | | | | | |
| 2 | FS04 | 0.5' | G | 1 | 8/2/23 | 0905 | X | X | X | | | | | | | |
| 3 | FS05 | 0.5' | G | 1 | 8/2/23 | 0910 | X | X | X | | | | | | | |
| 4 | FS06 | 0.5' | G | 1 | 8/2/23 | 0915 | X | X | X | | | | | | | |
| 5 | FS07 | 0.5' | G | 1 | 8/2/23 | 0920 | X | X | X | | | | | | | |
| 6 | FS08 | 0.5' | G | 1 | 8/2/23 | 0925 | X | X | X | | | | | | | |
| 7 | FS09 | 0.5' | G | 1 | 8/2/23 | 0930 | X | X | X | | | | | | | |
| 8 | FS10 | 0.5' | G | 1 | 8/2/23 | 0935 | X | X | X | | | | | | | |
| 9 | FS11 | 0.5' | G | 1 | 8/2/23 | 0940 | X | X | X | | | | | | | |
| 10 | FS12 | 0.5' | G | 1 | 8/2/23 | 0945 | X | X | X | | | | | | | |

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| | |
|---|---|
| Relinquished By: [Signature] Date: 8-22-23 Time: 1207 Received By: [Signature] Date: 8-22-23 Time: 1207 | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: NOLE@ensolum.com falcornata@ensolum.com |
|---|---|

| | |
|--|---|
| Delivered By: (Circle One) [Signature] Observed Temp. °C 39 Corrected Temp. °C Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: [Signature] Turnaround Time: Thermometer ID #140 Correction Factor 0°C | Standard <input checked="" type="checkbox"/> Rush Bacteria (only) <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Sample Condition Observed Temp. °C Corrected Temp. °C |
|--|---|

FORM-0001-R-3-4 07/11/23

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | |
|---|--|--|--|---|--|
| Company Name: <u>Cardinal, LLC</u> Project Manager: <u>Amel Boyle</u> Address: <u>6122 Nat'l Parks Hwy</u> City: <u>Ortoboo</u> State: <u>NM</u> Zip: <u>88220</u> Phone #: <u>120-584-1365</u> Fax #: _____ Project #: <u>0502057091</u> Project Owner: <u>Maverick</u> Project Name: <u>ABO Battery</u> Project Location: <u>(32-765430 & 105.4502920)</u> Sampler Name: <u>Juanita Falconmator</u> | | BILL TO P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ | | ANALYSIS REQUEST | |
| FOR LAB USE ONLY Lab I.D. <u>H2345</u> Sample I.D. | | MATRIX (G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL <input checked="" type="checkbox"/> _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL <input checked="" type="checkbox"/> _____ OTHER: _____ | | PRESERV. _____ SAMPLING | |
| 11 FOS @.S' 12 FOS @.S' 13 FOS @.S' | | DATE TIME 10/17/23 0950 1000 | | BTEX TPH Chlorides | |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' 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 stated reasons or otherwise. | | Relinquished By: <u>[Signature]</u> Date: <u>8-22-23</u> Relinquished By: <u>[Signature]</u> Date: <u>1207</u> Received By: <u>[Signature]</u> Date: _____ | | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: <u>mvello@cardinalnm.com</u> REMARKS: <u>mvello@cardinalnm.com</u> | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ | | Observed Temp. °C <u>39</u> Corrected Temp. °C _____ | | Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> | |
| Turnaround Time: _____ Thermometer ID #140 _____ Correction Factor 0°C _____ | | Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> | | Observed Temp. °C _____ Corrected Temp. °C _____ | |

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

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

September 05, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO BATTERY 3

Enclosed are the results of analyses for samples received by the laboratory on 08/24/23 12:23.

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,

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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|-----------------|-----------------|
| PH 01 A @ 1.5' | H234603-01 | Soil | 23-Aug-23 11:30 | 24-Aug-23 12:23 |
| PH 01 @ .25' | H234603-02 | Soil | 23-Aug-23 11:35 | 24-Aug-23 12:23 |
| PH 02 @ .25' | H234603-03 | Soil | 23-Aug-23 11:40 | 24-Aug-23 12:23 |
| PH 02 A @ 1.5' | H234603-04 | Soil | 23-Aug-23 11:45 | 24-Aug-23 12:23 |
| SS 03 @ .25' | H234603-05 | Soil | 23-Aug-23 11:50 | 24-Aug-23 12:23 |
| SS 02 @ .25" | H234603-06 | Soil | 23-Aug-23 11:55 | 24-Aug-23 12:23 |
| SS 01 @ .25' | H234603-07 | Soil | 23-Aug-23 12:30 | 24-Aug-23 12:23 |
| PH 03 A @ 1.0' | H234603-08 | Soil | 23-Aug-23 12:35 | 24-Aug-23 12:23 |
| PH 03 @ .25' | H234603-09 | Soil | 23-Aug-23 12:40 | 24-Aug-23 12:23 |
| SS 04 @ .25' | H234603-10 | Soil | 23-Aug-23 12:45 | 24-Aug-23 12:23 |

09/05/23 - Client requested sample ID changes (see COC). This is the revised report and will replace the one sent on 08/30/23.

Cardinal Laboratories

*=Accredited Analyte

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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: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

PH 01 A @ 1.5'
H234603-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | |
|-----------------|-------------|------|-------|---|---------|----|-----------|-----------|
| Chloride | 16.0 | 16.0 | mg/kg | 4 | 3082812 | AC | 28-Aug-23 | 4500-Cl-B |
|-----------------|-------------|------|-------|---|---------|----|-----------|-----------|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | |
|----------------|--------|-------|-------|----|---------|----|-----------|-------|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 3082545 | JH | 28-Aug-23 | 8021B |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 3082545 | JH | 28-Aug-23 | 8021B |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 3082545 | JH | 28-Aug-23 | 8021B |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 3082545 | JH | 28-Aug-23 | 8021B |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 3082545 | JH | 28-Aug-23 | 8021B |

| | | | | | | |
|---------------------------------------|-------|----------|---------|----|-----------|-------|
| Surrogate: 4-Bromofluorobenzene (PID) | 105 % | 71.5-134 | 3082545 | JH | 28-Aug-23 | 8021B |
|---------------------------------------|-------|----------|---------|----|-----------|-------|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | |
|------------------|-------|------|-------|---|---------|----|-----------|-------|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B |
| DRO >C10-C28* | <10.0 | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B |
| EXT DRO >C28-C36 | <10.0 | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B |

| | | | | | | |
|---------------------------|--------|----------|---------|----|-----------|-------|
| Surrogate: 1-Chlorooctane | 90.1 % | 48.2-134 | 3082512 | MS | 28-Aug-23 | 8015B |
|---------------------------|--------|----------|---------|----|-----------|-------|

| | | | | | | |
|-------------------------------|--------|----------|---------|----|-----------|-------|
| Surrogate: 1-Chlorooctadecane | 96.6 % | 49.1-148 | 3082512 | MS | 28-Aug-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: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

PH 01 @ .25'
H234603-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 960 | | 16.0 | mg/kg | 4 | 3082812 | AC | 28-Aug-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|-----|---------|----|-----------|-------|--------|
| Benzene* | <0.100 | | 0.100 | mg/kg | 100 | 3082545 | JH | 29-Aug-23 | 8021B | GC-NC |
| Toluene* | 7.22 | | 0.100 | mg/kg | 100 | 3082545 | JH | 29-Aug-23 | 8021B | GC-NC1 |
| Ethylbenzene* | 5.03 | | 0.100 | mg/kg | 100 | 3082545 | JH | 29-Aug-23 | 8021B | GC-NC1 |
| Total Xylenes* | 32.5 | | 0.300 | mg/kg | 100 | 3082545 | JH | 29-Aug-23 | 8021B | |
| Total BTEX | 44.8 | | 0.600 | mg/kg | 100 | 3082545 | JH | 29-Aug-23 | 8021B | GC-NC1 |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134 3082545 JH 29-Aug-23 8021B

Petroleum Hydrocarbons by GC FID**S-06**

| | | | | | | | | | | |
|------------------|------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | 925 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | 5620 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | 1030 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |

Surrogate: 1-Chlorooctane 164 % 48.2-134 3082512 MS 28-Aug-23 8015B

Surrogate: 1-Chlorooctadecane 133 % 49.1-148 3082512 MS 28-Aug-23 8015B

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*=Accredited Analyte

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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: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

PH 02 @ .25'**H234603-03 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 2600 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021**S-04**

| | | | | | | | | | | |
|-----------------------|--------------|--|-------|-------|----|---------|----|-----------|-------|---------------|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | GC-NC |
| Toluene* | 0.947 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | GC-NC1 |
| Ethylbenzene* | 0.871 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | GC-NC1, QM-07 |
| Total Xylenes* | 16.1 | | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | QM-07 |
| Total BTEX | 17.9 | | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | GC-NC1 |

Surrogate: 4-Bromofluorobenzene (PID) 497 % 71.5-134 3082546 MS 28-Aug-23 8021B

Petroleum Hydrocarbons by GC FID**S-06**

| | | | | | | | | | | |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | 1080 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | 9850 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | 1980 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |

Surrogate: 1-Chlorooctane 184 % 48.2-134 3082512 MS 28-Aug-23 8015B

Surrogate: 1-Chlorooctadecane 161 % 49.1-148 3082512 MS 28-Aug-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: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

PH 02 A @ 1.5'**H234603-04 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 94.9 % | 71.5-134 | | 3082546 | MS | 28-Aug-23 | 8021B | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 82.5 % | 48.2-134 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 83.9 % | 49.1-148 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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*=Accredited Analyte

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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: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

SS 03 @ .25'
H234603-05 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 90.7 % | | 71.5-134 | 3082546 | MS | 28-Aug-23 | 8021B | |
|---------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 84.1 % | | 48.2-134 | 3082512 | MS | 28-Aug-23 | 8015B | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 90.9 % | | 49.1-148 | 3082512 | MS | 28-Aug-23 | 8015B | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

SS 02 @ .25'
H234603-06 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 90.1 % | 71.5-134 | | 3082546 | MS | 28-Aug-23 | 8021B | |
|---------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 81.6 % | 48.2-134 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 84.3 % | 49.1-148 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

SS 01 @ .25'
H234603-07 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 90.5 % | 71.5-134 | | 3082546 | MS | 28-Aug-23 | 8021B | |
|--|--|--|--------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 82.3 % | 48.2-134 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 87.7 % | 49.1-148 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

PH 03 A @ 1.0'
H234603-08 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 352 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | |
|----------------|--------|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |

| | | | | | | | |
|---------------------------------------|--------|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 91.0 % | 71.5-134 | 3082546 | MS | 28-Aug-23 | 8021B | |
|---------------------------------------|--------|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | |
|------------------|-------|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | 236 | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | 64.2 | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |

| | | | | | | | |
|---------------------------|--------|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | 96.0 % | 48.2-134 | 3082512 | MS | 28-Aug-23 | 8015B | |
|---------------------------|--------|----------|---------|----|-----------|-------|--|

| | | | | | | | |
|-------------------------------|-------|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | 106 % | 49.1-148 | 3082512 | MS | 28-Aug-23 | 8015B | |
|-------------------------------|-------|----------|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

PH 03 @ .25'**H234603-09 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 176 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 89.7 % | | 71.5-134 | 3082546 | MS | 28-Aug-23 | 8021B | |
|---------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <50.0 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | 1490 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | 769 | | 50.0 | mg/kg | 5 | 3082512 | MS | 28-Aug-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 90.0 % | | 48.2-134 | 3082512 | MS | 28-Aug-23 | 8015B | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 118 % | | 49.1-148 | 3082512 | MS | 28-Aug-23 | 8015B | |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

SS 04 @ .25'
H234603-10 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 3082826 | AC | 28-Aug-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3082546 | MS | 28-Aug-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 89.0 % | 71.5-134 | | 3082546 | MS | 28-Aug-23 | 8021B | |
|--|--|--|--------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3082512 | MS | 28-Aug-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 92.4 % | 48.2-134 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 101 % | 49.1-148 | | 3082512 | MS | 28-Aug-23 | 8015B | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

Inorganic Compounds - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch 3082812 - 1:4 DI Water**Blank (3082812-BLK1)**

Prepared & Analyzed: 28-Aug-23

| | | | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|
| Chloride | ND | 16.0 | mg/kg | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|

LCS (3082812-BS1)

Prepared & Analyzed: 28-Aug-23

| | | | | | | | | | |
|----------|-----|------|-------|-----|-----|--------|--|--|--|
| Chloride | 416 | 16.0 | mg/kg | 400 | 104 | 80-120 | | | |
|----------|-----|------|-------|-----|-----|--------|--|--|--|

LCS Dup (3082812-BSD1)

Prepared & Analyzed: 28-Aug-23

| | | | | | | | | | |
|----------|-----|------|-------|-----|-----|--------|------|----|--|
| Chloride | 416 | 16.0 | mg/kg | 400 | 104 | 80-120 | 0.00 | 20 | |
|----------|-----|------|-------|-----|-----|--------|------|----|--|

Batch 3082826 - 1:4 DI Water**Blank (3082826-BLK1)**

Prepared & Analyzed: 28-Aug-23

| | | | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|
| Chloride | ND | 16.0 | mg/kg | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|

LCS (3082826-BS1)

Prepared & Analyzed: 28-Aug-23

| | | | | | | | | | |
|----------|-----|------|-------|-----|-----|--------|--|--|--|
| Chloride | 432 | 16.0 | mg/kg | 400 | 108 | 80-120 | | | |
|----------|-----|------|-------|-----|-----|--------|--|--|--|

LCS Dup (3082826-BSD1)

Prepared & Analyzed: 28-Aug-23

| | | | | | | | | | |
|----------|-----|------|-------|-----|-----|--------|------|----|--|
| Chloride | 432 | 16.0 | mg/kg | 400 | 108 | 80-120 | 0.00 | 20 | |
|----------|-----|------|-------|-----|-----|--------|------|----|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 3082545 - Volatiles**Blank (3082545-BLK1)**

Prepared: 25-Aug-23 Analyzed: 28-Aug-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) | 0.0516 | | mg/kg | 0.0500 | | 103 | 71.5-134 | | | |

LCS (3082545-BS1)

Prepared: 25-Aug-23 Analyzed: 28-Aug-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | 1.85 | 0.050 | mg/kg | 2.00 | | 92.4 | 82.8-130 | | | |
| Toluene | 2.03 | 0.050 | mg/kg | 2.00 | | 101 | 86-128 | | | |
| Ethylbenzene | 2.03 | 0.050 | mg/kg | 2.00 | | 102 | 85.9-128 | | | |
| m,p-Xylene | 4.04 | 0.100 | mg/kg | 4.00 | | 101 | 89-129 | | | |
| o-Xylene | 2.06 | 0.050 | mg/kg | 2.00 | | 103 | 86.1-125 | | | |
| Total Xylenes | 6.09 | 0.150 | mg/kg | 6.00 | | 102 | 88.2-128 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0503 | | mg/kg | 0.0500 | | 101 | 71.5-134 | | | |

LCS Dup (3082545-BSD1)

Prepared: 25-Aug-23 Analyzed: 28-Aug-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Benzene | 1.91 | 0.050 | mg/kg | 2.00 | | 95.6 | 82.8-130 | 3.35 | 15.8 | |
| Toluene | 2.30 | 0.050 | mg/kg | 2.00 | | 115 | 86-128 | 12.4 | 15.9 | |
| Ethylbenzene | 2.36 | 0.050 | mg/kg | 2.00 | | 118 | 85.9-128 | 15.0 | 16 | |
| m,p-Xylene | 4.71 | 0.100 | mg/kg | 4.00 | | 118 | 89-129 | 15.3 | 16.2 | |
| o-Xylene | 2.36 | 0.050 | mg/kg | 2.00 | | 118 | 86.1-125 | 13.8 | 16.7 | |
| Total Xylenes | 7.07 | 0.150 | mg/kg | 6.00 | | 118 | 88.2-128 | 14.8 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0543 | | mg/kg | 0.0500 | | 109 | 71.5-134 | | | |

Batch 3082546 - Volatiles**Blank (3082546-BLK1)**

Prepared: 25-Aug-23 Analyzed: 28-Aug-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 | | | | | | | |

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 3082546 - Volatiles**Blank (3082546-BLK1)**

Prepared: 25-Aug-23 Analyzed: 28-Aug-23

| | | | | | | | | | | |
|---------------------------------------|----|-------|-------|--------|--|------|----------|--|--|--|
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | ND | | mg/kg | 0.0500 | | 89.5 | 71.5-134 | | | |

LCS (3082546-BS1)

Prepared: 25-Aug-23 Analyzed: 28-Aug-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | 2.18 | 0.050 | mg/kg | 2.00 | | 109 | 82.8-130 | | | |
| Toluene | 2.20 | 0.050 | mg/kg | 2.00 | | 110 | 86-128 | | | |
| Ethylbenzene | 2.13 | 0.050 | mg/kg | 2.00 | | 106 | 85.9-128 | | | |
| m,p-Xylene | 4.32 | 0.100 | mg/kg | 4.00 | | 108 | 89-129 | | | |
| o-Xylene | 2.12 | 0.050 | mg/kg | 2.00 | | 106 | 86.1-125 | | | |
| Total Xylenes | 6.44 | 0.150 | mg/kg | 6.00 | | 107 | 88.2-128 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0426 | | mg/kg | 0.0500 | | 85.2 | 71.5-134 | | | |

LCS Dup (3082546-BSD1)

Prepared: 25-Aug-23 Analyzed: 28-Aug-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Benzene | 2.11 | 0.050 | mg/kg | 2.00 | | 106 | 82.8-130 | 2.88 | 15.8 | |
| Toluene | 2.11 | 0.050 | mg/kg | 2.00 | | 106 | 86-128 | 4.36 | 15.9 | |
| Ethylbenzene | 2.06 | 0.050 | mg/kg | 2.00 | | 103 | 85.9-128 | 3.40 | 16 | |
| m,p-Xylene | 4.13 | 0.100 | mg/kg | 4.00 | | 103 | 89-129 | 4.56 | 16.2 | |
| o-Xylene | 2.02 | 0.050 | mg/kg | 2.00 | | 101 | 86.1-125 | 5.10 | 16.7 | |
| Total Xylenes | 6.14 | 0.150 | mg/kg | 6.00 | | 102 | 88.2-128 | 4.73 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0434 | | mg/kg | 0.0500 | | 86.9 | 71.5-134 | | | |

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO BATTERY 3
Project Number: 03D2057091
Project Manager: AIMEE COLE
Fax To:

Reported:
05-Sep-23 10:52

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 3082512 - General Prep - Organics**Blank (3082512-BLK1)**

Prepared: 25-Aug-23 Analyzed: 28-Aug-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 | 42.8 | | mg/kg | 50.0 | | 85.5 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 45.5 | | mg/kg | 50.0 | | 91.0 | 49.1-148 | | | |

LCS (3082512-BS1)

Prepared: 25-Aug-23 Analyzed: 28-Aug-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | 175 | 10.0 | mg/kg | 200 | | 87.5 | 66.4-123 | | | |
| DRO >C10-C28 | 183 | 10.0 | mg/kg | 200 | | 91.6 | 66.5-118 | | | |
| Total TPH C6-C28 | 358 | 10.0 | mg/kg | 400 | | 89.5 | 77.6-123 | | | |
| Surrogate: 1-Chlorooctane | 45.7 | | mg/kg | 50.0 | | 91.4 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 47.5 | | mg/kg | 50.0 | | 95.0 | 49.1-148 | | | |

LCS Dup (3082512-BS1)

Prepared: 25-Aug-23 Analyzed: 28-Aug-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|------|------|--|
| GRO C6-C10 | 168 | 10.0 | mg/kg | 200 | | 83.8 | 66.4-123 | 4.29 | 17.7 | |
| DRO >C10-C28 | 175 | 10.0 | mg/kg | 200 | | 87.6 | 66.5-118 | 4.46 | 21 | |
| Total TPH C6-C28 | 343 | 10.0 | mg/kg | 400 | | 85.7 | 77.6-123 | 4.38 | 18.5 | |
| Surrogate: 1-Chlorooctane | 45.2 | | mg/kg | 50.0 | | 90.5 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 48.2 | | mg/kg | 50.0 | | 96.5 | 49.1-148 | | | |

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

August 31, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO BATTERY 3

Enclosed are the results of analyses for samples received by the laboratory on 08/25/23 13:53.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/25/2023
 Reported: 08/31/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 @ .5' (H234642-01)

| 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 | 08/29/2023 | ND | 1.99 | 99.7 | 2.00 | 3.61 | |
| Toluene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.00 | 99.8 | 2.00 | 4.01 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.06 | 103 | 2.00 | 1.04 | |
| Total Xylenes* | <0.150 | 0.150 | 08/29/2023 | ND | 6.20 | 103 | 6.00 | 1.67 | |
| Total BTEX | <0.300 | 0.300 | 08/29/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 08/29/2023 | 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 | 08/29/2023 | ND | 176 | 88.0 | 200 | 2.82 | |
| DRO >C10-C28* | 245 | 10.0 | 08/29/2023 | ND | 180 | 90.0 | 200 | 1.53 | |
| EXT DRO >C28-C36 | 63.5 | 10.0 | 08/29/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 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: 08/25/2023
 Reported: 08/31/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 @ .5' (H234642-02)

| BTX 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 | 08/29/2023 | ND | 1.99 | 99.7 | 2.00 | 3.61 | | |
| Toluene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.00 | 99.8 | 2.00 | 4.01 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.06 | 103 | 2.00 | 1.04 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/29/2023 | ND | 6.20 | 103 | 6.00 | 1.67 | | |
| Total BTX | <0.300 | 0.300 | 08/29/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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 | 320 | 16.0 | 08/29/2023 | 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 | 08/29/2023 | ND | 176 | 88.0 | 200 | 2.82 | |
| DRO >C10-C28* | 338 | 10.0 | 08/29/2023 | ND | 180 | 90.0 | 200 | 1.53 | |
| EXT DRO >C28-C36 | 95.3 | 10.0 | 08/29/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 64.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 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: 08/25/2023
 Reported: 08/31/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 @ .5' (H234642-03)

| BTX 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 | 08/29/2023 | ND | 1.99 | 99.7 | 2.00 | 3.61 | | |
| Toluene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.00 | 99.8 | 2.00 | 4.01 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.06 | 103 | 2.00 | 1.04 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/29/2023 | ND | 6.20 | 103 | 6.00 | 1.67 | | |
| Total BTX | <0.300 | 0.300 | 08/29/2023 | 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 | 320 | 16.0 | 08/29/2023 | 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 | 08/29/2023 | ND | 176 | 88.0 | 200 | 2.82 | |
| DRO >C10-C28* | 212 | 10.0 | 08/29/2023 | ND | 180 | 90.0 | 200 | 1.53 | |
| EXT DRO >C28-C36 | 54.0 | 10.0 | 08/29/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 58.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 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: 08/25/2023
 Reported: 08/31/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 @ .5' (H234642-04)

| 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 | 08/29/2023 | ND | 1.99 | 99.7 | 2.00 | 3.61 | | |
| Toluene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.00 | 99.8 | 2.00 | 4.01 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.06 | 103 | 2.00 | 1.04 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/29/2023 | ND | 6.20 | 103 | 6.00 | 1.67 | | |
| Total BTEX | <0.300 | 0.300 | 08/29/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 08/29/2023 | 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 | 08/29/2023 | ND | 176 | 88.0 | 200 | 2.82 | |
| DRO >C10-C28* | 132 | 10.0 | 08/29/2023 | ND | 180 | 90.0 | 200 | 1.53 | |
| EXT DRO >C28-C36 | 46.4 | 10.0 | 08/29/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 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: 08/25/2023
 Reported: 08/31/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 @ .5' (H234642-05)

| BTX 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 | 08/29/2023 | ND | 1.99 | 99.7 | 2.00 | 3.61 | | |
| Toluene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.00 | 99.8 | 2.00 | 4.01 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/29/2023 | ND | 2.06 | 103 | 2.00 | 1.04 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/29/2023 | ND | 6.20 | 103 | 6.00 | 1.67 | | |
| Total BTX | <0.300 | 0.300 | 08/29/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 80.0 | 16.0 | 08/29/2023 | 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 | 08/29/2023 | ND | 176 | 88.0 | 200 | 2.82 | |
| DRO >C10-C28* | 121 | 10.0 | 08/29/2023 | ND | 180 | 90.0 | 200 | 1.53 | |
| EXT DRO >C28-C36 | 34.5 | 10.0 | 08/29/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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*=Accredited Analyte

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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 |

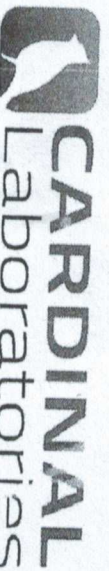
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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | |
|--|--|--|--|---|--|
| Company Name: <u>Cardinal, LLC</u> Project Manager: <u>Amey, Bob</u> Address: <u>8122 Natl Parks Hwy</u> City: <u>Las Alamos</u> State: <u>NM</u> Zip: <u>88220</u> Phone #: <u>720-384-7365</u> Fax #: _____ Project #: <u>05D2051091</u> Project Owner: <u>Maverick</u> Project Name: <u>P80 3 Battery</u> Project Location: <u>181.878438 - 103.4562920</u> Sampler Name: <u>Jillanna Falconmota</u> FOR LAB USE ONLY | | BILL TO P.O. #: _____ Company: <u>A.A.</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ | | ANALYSIS REQUEST | |
| Lab I.D. <u>H234442</u> Sample I.D. _____ | | MATRIX GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ PRESERV. ACID/BASE: _____ ICE / COOL _____ OTHER: _____ | | SAMPLING DATE _____ TIME _____ 8/5/23 1230 1235 1240 1245 1250 | |
| 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. Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. | | Relinquished By: <u>[Signature]</u> Date: <u>8/5/23</u> Relinquished By: <u>[Signature]</u> Date: <u>8/5/23</u> Received By: <u>[Signature]</u> Date: <u>8/5/23</u> Received By: <u>[Signature]</u> Date: <u>8/5/23</u> | | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: <u>amey@cardinalnm.com</u> Remarks: <u>181.878438 - 103.4562920</u> <u>181.878438 - 103.4562920</u> | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <u>36</u> Corrected Temp. °C: _____ Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: <u>[Signature]</u> (Initials) Turnaround Time: _____ Thermometer ID #140 Correction Factor 0°C Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C: _____ Corrected Temp. °C: _____ | | Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com | | | |



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

September 05, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO BATTERY 3

Enclosed are the results of analyses for samples received by the laboratory on 08/29/23 12:43.

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: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 21 @ 0.5' (H234686-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.76 | 87.9 | 2.00 | 0.722 | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.78 | 89.2 | 2.00 | 0.253 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.84 | 91.9 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.40 | 90.0 | 6.00 | 2.13 | |
| Total BTEX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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 | 2360 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/30/2023 | ND | 188 | 93.8 | 200 | 8.82 | |
| DRO >C10-C28* | 132 | 10.0 | 08/30/2023 | ND | 195 | 97.7 | 200 | 4.92 | |
| EXT DRO >C28-C36 | 44.7 | 10.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 22 @ 0.5' (H234686-02)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.76 | 87.9 | 2.00 | 0.722 | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.78 | 89.2 | 2.00 | 0.253 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.84 | 91.9 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.40 | 90.0 | 6.00 | 2.13 | |
| Total BTEx | <0.300 | 0.300 | 08/31/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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 | 2880 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/30/2023 | ND | 188 | 93.8 | 200 | 8.82 | |
| DRO >C10-C28* | 657 | 10.0 | 08/30/2023 | ND | 195 | 97.7 | 200 | 4.92 | |
| EXT DRO >C28-C36 | 242 | 10.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 23 @ 0.5' (H234686-03)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.76 | 87.9 | 2.00 | 0.722 | | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.78 | 89.2 | 2.00 | 0.253 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.84 | 91.9 | 2.00 | 1.19 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.40 | 90.0 | 6.00 | 2.13 | | |
| Total BTX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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 | 2360 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 08/30/2023 | ND | 188 | 93.8 | 200 | 8.82 | |
| DRO >C10-C28* | 10800 | 50.0 | 08/30/2023 | ND | 195 | 97.7 | 200 | 4.92 | |
| EXT DRO >C28-C36 | 3750 | 50.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 357 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 24 @ 0.5' (H234686-04)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.76 | 87.9 | 2.00 | 0.722 | | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.78 | 89.2 | 2.00 | 0.253 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.84 | 91.9 | 2.00 | 1.19 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.40 | 90.0 | 6.00 | 2.13 | | |
| Total BTEx | <0.300 | 0.300 | 08/31/2023 | 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 | 912 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 08/30/2023 | ND | 188 | 93.8 | 200 | 8.82 | |
| DRO >C10-C28* | 3740 | 50.0 | 08/30/2023 | ND | 195 | 97.7 | 200 | 4.92 | |
| EXT DRO >C28-C36 | 1230 | 50.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 164 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 25 @ 0.5' (H234686-05)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | | |
| Total BTEX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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 | 4960 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/30/2023 | ND | 188 | 93.8 | 200 | 8.82 | |
| DRO >C10-C28* | 3650 | 10.0 | 08/30/2023 | ND | 195 | 97.7 | 200 | 4.92 | |
| EXT DRO >C28-C36 | 883 | 10.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 26 @ 0.5' (H234686-06)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | | |
| Total BTEX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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 | 1880 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| 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 | 08/30/2023 | ND | 188 | 93.8 | 200 | 8.82 | |
| DRO >C10-C28* | 1000 | 10.0 | 08/30/2023 | ND | 195 | 97.7 | 200 | 4.92 | |
| EXT DRO >C28-C36 | 436 | 10.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 27 @ 0.5' (H234686-07)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | |
| Total BTX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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 | 2200 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/30/2023 | ND | 188 | 93.8 | 200 | 8.82 | |
| DRO >C10-C28* | 676 | 10.0 | 08/30/2023 | ND | 195 | 97.7 | 200 | 4.92 | |
| EXT DRO >C28-C36 | 326 | 10.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 28 @ 0.5' (H234686-08)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | | |
| Total BTEX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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 | 3160 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 08/30/2023 | ND | 203 | 102 | 200 | 0.330 | |
| DRO >C10-C28* | 9640 | 50.0 | 08/30/2023 | ND | 202 | 101 | 200 | 0.0936 | |
| EXT DRO >C28-C36 | 2860 | 50.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 478 % 49.1-148

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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 29 @ 0.5' (H234686-09)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | | |
| Total BTEX | <0.300 | 0.300 | 08/31/2023 | 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 | 1200 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 08/30/2023 | ND | 203 | 102 | 200 | 0.330 | |
| DRO >C10-C28* | 4320 | 50.0 | 08/30/2023 | ND | 202 | 101 | 200 | 0.0936 | |
| EXT DRO >C28-C36 | 1480 | 50.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 269 % 49.1-148

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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 30 @ 0.5' (H234686-10)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | |
| Total BTEX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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 | 2120 | 16.0 | 08/30/2023 | 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 | 08/30/2023 | ND | 203 | 102 | 200 | 0.330 | |
| DRO >C10-C28* | 198 | 10.0 | 08/30/2023 | ND | 202 | 101 | 200 | 0.0936 | |
| EXT DRO >C28-C36 | 71.1 | 10.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 31 @ 0.5' (H234686-11)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | |
| Total BTX | <0.300 | 0.300 | 08/31/2023 | 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 | 1800 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 08/30/2023 | ND | 203 | 102 | 200 | 0.330 | |
| DRO >C10-C28* | 3820 | 50.0 | 08/30/2023 | ND | 202 | 101 | 200 | 0.0936 | |
| EXT DRO >C28-C36 | 976 | 50.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 207 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 08/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 32 @ 0.5' (H234686-12)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.77 | 88.4 | 2.00 | 0.148 | | |
| Toluene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.74 | 87.1 | 2.00 | 0.864 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/31/2023 | ND | 1.79 | 89.7 | 2.00 | 0.927 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/31/2023 | ND | 5.30 | 88.4 | 6.00 | 0.742 | | |
| Total BTEX | <0.300 | 0.300 | 08/31/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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 | 1300 | 16.0 | 08/30/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 08/30/2023 | ND | 203 | 102 | 200 | 0.330 | |
| DRO >C10-C28* | 4720 | 50.0 | 08/30/2023 | ND | 202 | 101 | 200 | 0.0936 | |
| EXT DRO >C28-C36 | 1100 | 50.0 | 08/30/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 248 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

| | |
|-------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

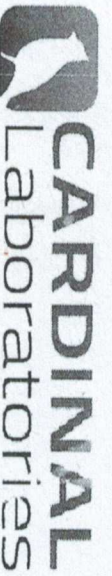
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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: Englum LLC Project Manager: Aimee Cole Address: 3122 National Parks Hwy City: Crowsbad State: NM Zip: 88220 Phone #: 720 384 7365 Fax #: Project #: 03D2657691 Project Owner: Mawerick Project Name: ABD3 Battery Project Location: 32.7878430, -103.4562926 Sampler Name: Remi Hughes | | BILL TO P.O. #: Pinecote Company: Attn: Address: City: State: Zip: Phone #: Fax #: | | ANALYSIS REQUEST | |
| FOR LAB USE ONLY | | MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : | | PRESERV. SAMPLING | |
| Lab I.D. H234686 | Sample I.D. FS 21 @ 0.5' FS 22 @ 0.5' FS 23 @ 0.5' FS 24 @ 0.5' FS 25 @ 0.5' FS 26 @ 0.5' FS 27 @ 0.5' FS 28 @ 0.5' FS 29 @ 0.5' FS 30 @ 0.5' | C 1 8/28/23 1039 1041 1042 1044 1046 1049 1052 1055 1059 1106 | TPH CI- BTEX | | |
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| Relinquished By: [Signature] Date: 8/28/23 Time: 12:43 Received By: [Signature] | | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: acole@cardinalnm.com | | REMARKS: | |
| Relinquished By: [Signature] Date: Time: Received By: | | | | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: FOMM0006 R 034 07711723 | | Observed Temp. °C 39.6 Corrected Temp. °C 41.0 Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: [Signature] (Initials) | | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor 0°C Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C | |

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



ANALYSIS REQUEST

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



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

September 08, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO BATTERY 3

Enclosed are the results of analyses for samples received by the laboratory on 09/07/23 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 03 A @ 1' (H234854-01)

| 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTEX | <0.300 | 0.300 | 09/07/2023 | 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 | 176 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 555 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 162 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Analytical Results For:

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

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 06 A @ 1' (H234854-02)

| 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTEx | <0.300 | 0.300 | 09/07/2023 | 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 | 272 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 673 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 196 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Analytical Results For:

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

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 07 A @ 1' (H234854-03)

| BTX 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTX | <0.300 | 0.300 | 09/07/2023 | 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 | 400 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 104 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 27.6 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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*=Accredited Analyte

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Analytical Results For:

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

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 A @ 1' (H234854-04)

| BTX 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTX | <0.300 | 0.300 | 09/07/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 659 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 211 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 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: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 A @ 1' (H234854-05)

| BTX 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTX | <0.300 | 0.300 | 09/07/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 192 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 82.5 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 21.6 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 A @ 1' (H234854-06)

| 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTEx | <0.300 | 0.300 | 09/07/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 208 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 753 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 218 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 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: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 A @ 1' (H234854-07)

| BTX 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTX | <0.300 | 0.300 | 09/07/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 208 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 76.6 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 19.5 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 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: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 29 A @ 1' (H234854-08)

| 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTEx | <0.300 | 0.300 | 09/07/2023 | 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 | 736 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 85.1 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 19.5 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 69.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Analytical Results For:

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

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 31 A @ 1' (H234854-09)

| 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 | 09/07/2023 | ND | 2.04 | 102 | 2.00 | 0.811 | |
| Toluene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.06 | 103 | 2.00 | 0.765 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/07/2023 | ND | 2.03 | 101 | 2.00 | 1.40 | |
| Total Xylenes* | <0.150 | 0.150 | 09/07/2023 | ND | 6.15 | 103 | 6.00 | 2.39 | |
| Total BTEx | <0.300 | 0.300 | 09/07/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1100 | 16.0 | 09/08/2023 | 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 | 09/07/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 600 | 10.0 | 09/07/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 148 | 10.0 | 09/07/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 32 A @ 1' (H234854-10)

| 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 | 09/08/2023 | ND | 2.04 | 102 | 2.00 | 1.01 | | |
| Toluene* | <0.050 | 0.050 | 09/08/2023 | ND | 2.07 | 104 | 2.00 | 1.84 | | |
| Ethylbenzene* | <0.050 | 0.050 | 09/08/2023 | ND | 2.00 | 100 | 2.00 | 1.19 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/08/2023 | ND | 6.03 | 100 | 6.00 | 1.57 | | |
| Total BTEx | <0.300 | 0.300 | 09/08/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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 | 1100 | 16.0 | 09/08/2023 | 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 | 09/08/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 505 | 10.0 | 09/08/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 127 | 10.0 | 09/08/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Analytical Results For:

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

Received: 09/07/2023
 Reported: 09/08/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 33 A @ 1' (H234854-11)

| 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 | 09/08/2023 | ND | 2.04 | 102 | 2.00 | 1.01 | |
| Toluene* | <0.050 | 0.050 | 09/08/2023 | ND | 2.07 | 104 | 2.00 | 1.84 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/08/2023 | ND | 2.00 | 100 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 09/08/2023 | ND | 6.03 | 100 | 6.00 | 1.57 | |
| Total BTEx | <0.300 | 0.300 | 09/08/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 880 | 16.0 | 09/08/2023 | 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 | 09/08/2023 | ND | 180 | 90.0 | 200 | 0.807 | |
| DRO >C10-C28* | 137 | 10.0 | 09/08/2023 | ND | 184 | 91.8 | 200 | 1.48 | |
| EXT DRO >C28-C36 | 30.6 | 10.0 | 09/08/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | |
|---|--|---|--|---|--|--|--|
| Company Name: <u>Cardinal LLC</u> Project Manager: <u>Finley Cole</u> Address: <u>8102 N. 1st St. Parkersburg</u> City: <u>Parkersburg</u> State: <u>WV</u> Zip: <u>26101</u> Phone #: <u>720-384-7365</u> Fax #: _____ Project #: _____ Project Owner: <u>Mossier</u> Project Name: <u>ABO 3 Battery</u> Project Location: <u>32.7878430° -103.4502920</u> Sampler Name: <u>William Faldemont</u> | | BILL TO P.O. #: <u>N.A.</u> Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ | | ANALYSIS REQUEST | | | |
| FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ <u>H334854</u> <u>ES034</u> <u>ES06A @ 1'</u> <u>ES07A @ 1'</u> <u>ES10A @ 1'</u> <u>ES11A @ 1'</u> <u>ES14A @ 1'</u> <u>ES15A @ 1'</u> <u>ES29A @ 1'</u> <u>ES81A @ 1'</u> <u>ES82A @ 1'</u> | | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : | | MATRIX PRESERV. SAMPLING DATE TIME <u>9/17/23</u> <u>1200</u> <u>1205</u> <u>1210</u> <u>1215</u> <u>1220</u> <u>1225</u> <u>1230</u> <u>1235</u> <u>1240</u> <u>1245</u> | | BTX TPH Chlorides | |
| Relinquished By: _____ Relinquished Date: <u>9-17-23</u> Time: <u>1405</u> Date: _____ Received By: <u>William Faldemont</u> Received Date: _____ Time: _____ | | Observed Temp. °C <u>5.9</u> Corrected Temp. °C _____ Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | Turnaround Time: <u>Standard</u> Thermometer ID #140 <u>24hr</u> Correction Factor 0°C _____ Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> | | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: <u>Wesley.Densolum.com; faldemont@densolum.com</u> REMARKS: _____ | |

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



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 15

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

September 13, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO 3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/08/23 11:39.

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: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---------------|---------------|--------|-----------------|-----------------|
| FS23A @ 1' | H234876-01 | Soil | 08-Sep-23 09:40 | 08-Sep-23 11:39 |
| FS24A @ 1' | H234876-02 | Soil | 08-Sep-23 09:45 | 08-Sep-23 11:39 |
| FS25A @ 1' | H234876-03 | Soil | 08-Sep-23 09:50 | 08-Sep-23 11:39 |
| FS26A @ 1' | H234876-04 | Soil | 08-Sep-23 09:55 | 08-Sep-23 11:39 |
| FS28A @ 1' | H234876-05 | Soil | 08-Sep-23 10:00 | 08-Sep-23 11:39 |
| FS37 @ 1' | H234876-06 | Soil | 08-Sep-23 10:05 | 08-Sep-23 11:39 |
| FS34 @ 1' | H234876-07 | Soil | 08-Sep-23 10:10 | 08-Sep-23 11:39 |
| FS35 @ 1' | H234876-08 | Soil | 08-Sep-23 10:15 | 08-Sep-23 11:39 |
| FS36 @ 1' | H234876-09 | Soil | 08-Sep-23 10:20 | 08-Sep-23 11:39 |
| PH03 B @ 1.5' | H234876-10 | Soil | 08-Sep-23 10:25 | 08-Sep-23 11:39 |

09/13/23 - Client changed the sample ID on -06 (see COC). This is the revised report and replaces the one sent on 09/ 11/23.

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS23A @ 1'
H234876-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 304 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | |
|----------------|--------|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |

| | | | | | | | |
|---------------------------------------|-------|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 116 % | 71.5-134 | 3090813 | MS | 08-Sep-23 | 8021B | |
|---------------------------------------|-------|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | |
|------------------|-------|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 183 | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 51.5 | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | |
|---------------------------|--------|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | 56.7 % | 48.2-134 | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--------|----------|---------|----|-----------|-------|--|

| | | | | | | | |
|-------------------------------|--------|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | 62.9 % | 49.1-148 | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--------|----------|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS24A @ 1'
H234876-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 560 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 08-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 117 % | 71.5-134 | | 3090813 | MS | 08-Sep-23 | 8021B | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 172 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 29.7 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 59.6 % | 48.2-134 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 64.7 % | 49.1-148 | | 3090809 | MS | 08-Sep-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: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS25A @ 1'
H234876-03 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 128 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 116 % | 71.5-134 | | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 227 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 87.2 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 75.1 % | 48.2-134 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 81.8 % | 49.1-148 | | 3090809 | MS | 08-Sep-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: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS26A @ 1'
H234876-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 544 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | 116 % | | 71.5-134 | | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 278 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 61.1 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | 59.3 % | | 48.2-134 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | 66.1 % | | 49.1-148 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS28A @ 1'
H234876-05 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 112 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 117 % | 71.5-134 | | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 195 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 78.9 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 71.7 % | 48.2-134 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 85.7 % | 49.1-148 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS37 @ 1'
H234876-06 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 272 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | |
|----------------|--------|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | |
|---------------------------------------|-------|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 116 % | 71.5-134 | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|-------|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | |
|------------------|-------|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 208 | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 66.0 | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | |
|---------------------------|--------|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | 67.1 % | 48.2-134 | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--------|----------|---------|----|-----------|-------|--|

| | | | | | | | |
|-------------------------------|--------|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | 72.4 % | 49.1-148 | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--------|----------|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS34 @ 1'
H234876-07 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 320 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 117 % | | 71.5-134 | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 739 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 215 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 74.5 % | | 48.2-134 | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 87.8 % | | 49.1-148 | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS35 @ 1'
H234876-08 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 112 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | 116 % | | 71.5-134 | | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 179 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 69.5 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | 79.7 % | | 48.2-134 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | 91.4 % | | 49.1-148 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

FS36 @ 1'
H234876-09 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 304 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 117 % | | 71.5-134 | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | 578 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | 152 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 70.6 % | | 48.2-134 | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 87.6 % | | 49.1-148 | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

PH03 B @ 1.5'
H234876-10 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 | | 16.0 | mg/kg | 4 | 3091104 | AC | 11-Sep-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3090813 | MS | 09-Sep-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 118 % | 71.5-134 | | 3090813 | MS | 09-Sep-23 | 8021B | |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3090809 | MS | 08-Sep-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 79.8 % | 48.2-134 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 83.4 % | 49.1-148 | | 3090809 | MS | 08-Sep-23 | 8015B | |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

Inorganic Compounds - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|--------------------|-------|--------------------------------|------------------|----------------|--------|--------------|-------|
| Batch 3091104 - 1:4 DI Water | | | | | | | | | |
| Blank (3091104-BLK1) | | | | Prepared & Analyzed: 11-Sep-23 | | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | |
| LCS (3091104-BS1) | | | | Prepared & Analyzed: 11-Sep-23 | | | | | |
| Chloride | 432 | 16.0 | mg/kg | 400 | | 108 | 80-120 | | |
| LCS Dup (3091104-BSD1) | | | | Prepared & Analyzed: 11-Sep-23 | | | | | |
| Chloride | 432 | 16.0 | mg/kg | 400 | | 108 | 80-120 | 0.00 | 20 |

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 3090813 - Volatiles**Blank (3090813-BLK1)**

Prepared & Analyzed: 08-Sep-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) | 0.0577 | | mg/kg | 0.0500 | | 115 | 71.5-134 | | | |

LCS (3090813-BS1)

Prepared & Analyzed: 08-Sep-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | 1.95 | 0.050 | mg/kg | 2.00 | | 97.7 | 82.8-130 | | | |
| Toluene | 2.01 | 0.050 | mg/kg | 2.00 | | 101 | 86-128 | | | |
| Ethylbenzene | 2.01 | 0.050 | mg/kg | 2.00 | | 101 | 85.9-128 | | | |
| m,p-Xylene | 4.02 | 0.100 | mg/kg | 4.00 | | 101 | 89-129 | | | |
| o-Xylene | 1.95 | 0.050 | mg/kg | 2.00 | | 97.3 | 86.1-125 | | | |
| Total Xylenes | 5.97 | 0.150 | mg/kg | 6.00 | | 99.5 | 88.2-128 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0503 | | mg/kg | 0.0500 | | 101 | 71.5-134 | | | |

LCS Dup (3090813-BSD1)

Prepared & Analyzed: 08-Sep-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Benzene | 1.91 | 0.050 | mg/kg | 2.00 | | 95.6 | 82.8-130 | 2.15 | 15.8 | |
| Toluene | 1.96 | 0.050 | mg/kg | 2.00 | | 97.9 | 86-128 | 2.88 | 15.9 | |
| Ethylbenzene | 1.98 | 0.050 | mg/kg | 2.00 | | 99.2 | 85.9-128 | 1.50 | 16 | |
| m,p-Xylene | 3.98 | 0.100 | mg/kg | 4.00 | | 99.5 | 89-129 | 1.01 | 16.2 | |
| o-Xylene | 1.89 | 0.050 | mg/kg | 2.00 | | 94.6 | 86.1-125 | 2.81 | 16.7 | |
| Total Xylenes | 5.87 | 0.150 | mg/kg | 6.00 | | 97.9 | 88.2-128 | 1.59 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0503 | | mg/kg | 0.0500 | | 101 | 71.5-134 | | | |

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 or 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 damage 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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ABO 3 BATTERY
Project Number: 03D2057076
Project Manager: AIMEE COLE
Fax To:

Reported:
13-Sep-23 16:33

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 |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 3090809 - General Prep - Organics**Blank (3090809-BLK1)**

Prepared & Analyzed: 08-Sep-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 | 46.8 | | mg/kg | 50.0 | | 93.6 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 52.4 | | mg/kg | 50.0 | | 105 | 49.1-148 | | | |

LCS (3090809-BS1)

Prepared & Analyzed: 08-Sep-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | 201 | 10.0 | mg/kg | 200 | | 101 | 66.4-123 | | | |
| DRO >C10-C28 | 216 | 10.0 | mg/kg | 200 | | 108 | 66.5-118 | | | |
| Total TPH C6-C28 | 417 | 10.0 | mg/kg | 400 | | 104 | 77.6-123 | | | |
| Surrogate: 1-Chlorooctane | 45.2 | | mg/kg | 50.0 | | 90.5 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 48.1 | | mg/kg | 50.0 | | 96.2 | 49.1-148 | | | |

LCS Dup (3090809-BSD1)

Prepared & Analyzed: 08-Sep-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|------|------|--|
| GRO C6-C10 | 192 | 10.0 | mg/kg | 200 | | 96.0 | 66.4-123 | 4.70 | 17.7 | |
| DRO >C10-C28 | 200 | 10.0 | mg/kg | 200 | | 99.9 | 66.5-118 | 7.90 | 21 | |
| Total TPH C6-C28 | 392 | 10.0 | mg/kg | 400 | | 97.9 | 77.6-123 | 6.34 | 18.5 | |
| Surrogate: 1-Chlorooctane | 45.8 | | mg/kg | 50.0 | | 91.6 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 55.1 | | mg/kg | 50.0 | | 110 | 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

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 or 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 damage 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.

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

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Released to Imaging: 2/9/2024 4:00:20 PM



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

October 09, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ABO BATTERY 3

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, stylized 'C' and 'K'.

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
 Reported: 10/09/2023
 Project Name: ABO BATTERY 3
 Project Number: 03D2057091
 Project Location: MAVERICK 32.7878430,-103.4502920

Sampling Date: 10/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 05 @ .5' (H235406-01)

| 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) 115 % 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 | 10/06/2023 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 10/05/2023 | ND | 211 | 106 | 200 | 1.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 10/05/2023 | ND | 228 | 114 | 200 | 1.93 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 10/05/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | |
|--|--|--|--|
| Company Name: ENSOLUN LLC Project Manager: Anne Goble Address: 602 Nat'l Parks Hwy City: Park Road State: NM Zip: 88220 Phone #: 720-384-1365 Fax #: - Project #: 650057091 Project Owner: Maurice Project Name: A80 3 Battery Project Location: 32.787848, -108.450292 Sampler Name: Julianne Falcone | | BILL TO P.O. #: A.A Company: Attn: Address: City: State: Zip: Phone #: Fax #: | |
| FOR LAB USE ONLY Lab I.D. H235406 Sample I.D. 1 S506 A.O.S. Matrix: GROUNDWATER WASTEWATER SOIL <input checked="" type="checkbox"/> OIL SLUDGE OTHER: ACID/BASE: ICE / COOL <input checked="" type="checkbox"/> OTHER: DATE 10/4/23 TIME 1140 ANALYSIS REQUEST BTEX <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> | | PREPARED BY SAMPLING DATE 10/4/23 TIME 1140 ANALYSIS REQUEST BTEX <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> | |

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. In witness whereof, Cardinal has caused this Chain of Custody and Analysis Request to be signed by its authorized representative.

| | |
|--|--|
| Relinquished By: [Signature] Date: 10/4/23 Time: 1504 Received By: Julianne Falcone Date: 10/4/23 Time: 1504 | Observed Temp. °C 4.8 Corrected Temp. °C Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: [Signature] Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 12M Correction Factor 0°C Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C |
|--|--|

REMARKS: ensolum.com, falconata@ensolum.com

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



APPENDIX E

NMOCD Notifications

From: [Velez, Nelson, EMNRD](#)
To: [Aimee Cole](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: Maverick Permian, LLC - Extension Request - ABO 3 Battery (Incident Number nAPP2314448299)
Date: Friday, August 18, 2023 9:44:55 AM
Attachments: [image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[Outlook-4htm5ga3.png](#)

You don't often get email from nelson.velez@emnrd.nm.gov. [Learn why this is important](#)

[EXTERNAL EMAIL**]**

Good morning Aimee,

Your 60-day time extension request is approved. Remediation Due date has been updated to October 20, 2023.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



Previous email submittal;

From: Aimee Cole <acole@ensolum.com>
Sent: Friday, August 18, 2023 9:25 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian, LLC - Extension Request - ABO 3 Battery (Incident Number nAPP2314448299)

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

links or opening attachments.

To Whom It May Concern,

ABO 3 Battery (Incident Number nAPP2314448299)

Maverick Permian, LLC (Maverick) is requesting an extension of the current August 20, 2023, deadline for submitting a report required in 9.15.29.12.B.(1) NMAC detailing remedial actions at the ABO 3 Battery (Incident Number nAPP2314448299). Excavation of impacted soil is currently in progress and expected to continue through at least next week. Due to the density of above and below ground lines and process equipment in the release area, excavation is being completed mainly by hydrovac and hand digging. In order to complete the excavation activities, review the soil sample laboratory analytical results, and prepare a closure report, Maverick requests a 60-day extension until October 19, 2023.

Thank you,



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



From: [Wells, Shelly, EMNRD](#)
To: [Aimee Cole](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 8/14/2023)
Date: Wednesday, August 9, 2023 12:55:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL **]

Good afternoon Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, August 9, 2023 12:32 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 8/14/2023)

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 August 14, 2023.

- MCA 409 Flowline/ NAPP2318846991
 - Sampling Dates: 8/15/2023 – 8/18/2023
- ABO 3 Battery / nAPP2314448299
 - Sampling Dates: 8/15/2023 – 8/18/2023

Thank you,



Aimee Cole

Senior Managing Scientist

720-384-7365

Ensolum, LLC



From: [Wells, Shelly, EMNRD](#)
To: [Aimee Cole](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 8/21/2023)
Date: Wednesday, August 16, 2023 12:57:32 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

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[**EXTERNAL EMAIL**]

Good afternoon Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, August 16, 2023 12:42 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 8/21/2023)

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 August 21, 2023.

- MCA 409 Flowline/ NAPP2318846991
 - Sampling Dates: 8/21/2023 – 8/25/2023
- ABO 3 Battery / nAPP2314448299
 - Sampling Dates: 8/21/2023 – 8/25/2023

Thank you,



Aimee Cole

Senior Managing Scientist

720-384-7365

Ensolum, LLC



From: [Aimee Cole](#)
To: ["ocd.enviro@state.nm.us"](mailto:ocd.enviro@state.nm.us)
Subject: Maverick - Sampling Notification (Week of 8/28/2023)
Date: Wednesday, August 23, 2023 12:48:00 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 August 28, 2023.

- MCA 409 Flowline/ NAPP2318846991
 - Sampling Dates: 8/28/2023 – 8/29/2023
- ABO 3 Battery / nAPP2314448299
 - Sampling Dates: 8/28/2023 – 8/29/2023
- Grayburg Eumont Strawn Battery / NAPP2302036818
 - Sampling Dates: 8/28/2023
- MCA 95 / NAPP2306757137
 - Sampling Dates: 8/28/2023 – 9/1/2023
- MCA 301 / NAPP2307558601
 - Sampling Dates: 8/31/2023 – 9/1/2023

Thank you,



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



From: [Wells, Shelly, EMNRD](#)
To: [Aimee Cole](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 9/4/2023)
Date: Wednesday, August 30, 2023 2:02:54 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Good afternoon Aimee,

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide the 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,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, August 30, 2023 2:28 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 9/4/2023)

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 4, 2023.

- MCA 409 Flowline/ NAPP2318846991
 - Sampling Date: 9/5/2023
- ABO 3 Battery / nAPP2314448299
 - Sampling Date: 9/5/2023

- Grayburg Eumont Strawn Battery / NAPP2302036818
 - Sampling Date: 9/6/2023
- MCA 301 / NAPP2307558601
 - Sampling Dates: 9/5/2023 – 9/8/2023

Thank you,



Aimee Cole

Senior Managing Scientist

720-384-7365

Ensolum, LLC





APPENDIX F
Form 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 | nAPP2314448299 |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|--|---------------------------------|
| Responsible Party: Maverick Permian, LLC | OGRID |
| Contact Name: Bryce Wagoner | Contact Telephone: 928-241-1862 |
| Contact email: Bryce.Wagoner@mavresources.com | Incident # (assigned by OCD) |
| Contact mailing address: 1410 NW County Road Hobbs, NM 88240 | |

Location of Release Source

Latitude 32.7878430 _____ Longitude -103.4502920 _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|--|---------------------------|
| Site Name: ABO 3 Battery | Site Type: |
| Date Release Discovered: May 22 nd , 2023 | API# (if applicable): N/A |

| | | | | |
|-------------|---------|----------|-------|--------|
| Unit Letter | Section | Township | Range | County |
| M | 34 | 17S | 35E | Lea |

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 checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 0.5 bbls | Volume Recovered (bbls) 0.5 bbls |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 5 bbls | Volume Recovered (bbls) 0 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:

Equipment failure led to a separator PSV popping off.

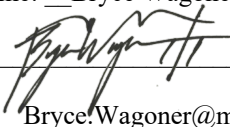
State of New Mexico
Oil Conservation Division

| | |
|----------------|----------------|
| Incident ID | nAPP2314448299 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> The source of the release has been stopped. | |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. | |
| <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| <input checked="" 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: Bryce Wagoner | Title: Permian HSE Specialist II |
| Signature:  | Date: 6/5/2023 |
| email: Bryce.Wagoner@mavresources.com | Telephone: 928-241-1862 |
| <u>OCD Only</u> | |
| Received by: | Date: |

| | |
|----------------|----------------|
| Incident ID | nAPP2314448299 |
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| Application ID | |

Site Assessment/Characterization

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

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>>51</u> (ft 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.*

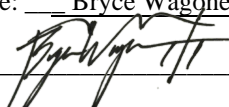
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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.

Oil Conservation Division

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Printed Name: Bryce Wagoner Title: Permian HSE Specialist
Signature:  Date: 10/10/2023
email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells Date: 10/17/2023

| | |
|----------------|----------------|
| Incident ID | nAPP2314448299 |
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| Application ID | |

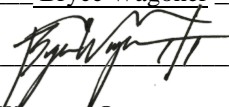
Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Bryce Wagoner Title: Permian HSE Specialist
Signature:  Date: 10/10/2023
email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells Date: 10/17/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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 276523

CONDITIONS

| | |
|--|---|
| Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002 | OGRID: 331199 |
| | Action Number: 276523 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| scwells | None | 2/9/2024 |