

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 | NAB1913729531 |
| District RP | 2RP-5422 |
| Facility ID | |
| Application ID | pAB1913728922 |

Release Notification

Responsible Party

| | | | |
|-------------------------|-----------------------------------|------------------------------|---------------|
| Responsible Party | XTO Energy | OGRID | 5380 |
| Contact Name | Kyle Littrell | Contact Telephone | 432-221-7331 |
| Contact email | Kyle_Littrell@xtoenergy.com | Incident # (assigned by OCD) | NAB1913729531 |
| Contact mailing address | 522 W. Mermod, Carlsbad, NM 88220 | | |

Location of Release Source

Latitude 32.248381° Longitude -103.859348°
(NAD 83 in decimal degrees to 5 decimal places)

| | | | |
|-------------------------|---------------------------------|----------------------|--------------------------------------|
| Site Name | Big Sinks 2-24-30 State Battery | Site Type | Bulk Storage and Separation Facility |
| Date Release Discovered | 4/25/2019 | API# (if applicable) | 30-015-39246 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| E | 2 | 24S | 30E | Eddy |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: New Mexico)

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) <u>70</u> | Volume Recovered (bbls) <u>0</u> |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of total dissolved solids (TDS) 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

Fluids were released to the well pad and the pasture south of the well pad due to an open valve on a circulating pump. The valve was closed to stop the release of fluids. Additional third party resources have been retained to assist with remediation.

Form C-141

State of New Mexico
Oil Conservation Division

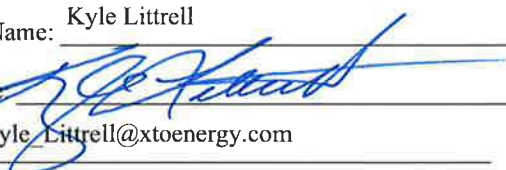

Page 2

| | |
|----------------|---------------|
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| Application ID | pAB1913728922 |

| | |
|--|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of a volume of 25 barrels or more |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice provided by Amy Ruth to Mike Bratcher, Rob Hamlet, Victoria Venegas and Jim Griswold (NMOCD), and Ryan Mann (SLO) on 4/26/2019 by email | |

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: N/A | |
| 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: <u>Kyle Littrell</u> Signature: <u></u> email: <u>Kyle_Littrell@xtoenergy.com</u> | Title: <u>SH&E Supervisor</u> Date: <u>5/2/2019</u> Telephone: <u>432-221-7331</u> |
| OCD Only Received by: <u></u> Date: <u>5/17/2019</u> | |

| | | |
|--|--|-----------------|
| Location: | Big Sinks 2-24-30 St Btry (30-015-39246) | |
| Spill Date: | 4/25/2019 | |
| | | |
| Approximate Area= | 6,293 | ft ² |
| Average Saturation (or depth) of Spill= | 5.00 | inches |

| | | |
|---------------------------------|------|--|
| Approximate Oil % | 100 | |
| Average Porosity Factor= | 0.15 | |

| VOLUME OF LEAK | | |
|------------------------------|----|---------|
| Total Oil= | 70 | barrels |
| Total Produced Water= | 0 | barrels |

| | |
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| Application ID | pAB1913728922 |

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>>100</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 checked="" type="checkbox"/> Yes <input 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.

State of New Mexico
Oil Conservation Division

Page 4

| | |
|----------------|---------------|
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| District RP | 2RP-5422 |
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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: Garrett Green Title: Environmental CoordinatorSignature:  Date: 9/29/23email: garrett.green@exxonmobil.com Telephone: (575)-200-0729**OCD Only**

Received by: _____ Date: _____

| | |
|----------------|---------------|
| Incident ID | NAB1913729531 |
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Closure

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

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: Garrett Green Title: Environmental Coordinator
Signature:  Date: 9/29/23
email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

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: _____



September 27, 2023

New Mexico Energy Minerals and Natural Resources Department

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

**Re: Supplemental Closure Request
Big Sinks 2-24-30 State Battery
Incident Number NAB1913729531
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Supplemental Closure Request* to document additional confirmation soil sampling results following the final excavation of residual soil impacts on top of a third-party pipeline at the Big Sinks 2-24-30 State Battery (Site). Based on removal of all residually impacted soil at the Site and confirmation soil samples documenting the absence of impacted soil, XTO is submitting this *Supplemental Closure Request*, summarizing confirmation soil sampling activities and results and requesting no further action for Incident Number NAB1913729531.

The Site is located in Unit E, Section 2, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.248381°, -103.859348°) and is associated with oil and gas exploration and production operations on New Mexico state land (Figure 1).

On April 25, 2019, an open valve on a circulating pump resulted in the release of approximately 70 barrels (bbls) of crude oil onto the caliche well pad at the Site and into the pasture area south of the well pad. The valve was closed to stop the release of fluid. No fluid was recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 2, 2019. The release was assigned Incident Number NAB1913729531.

Remedial actions were completed at the Site between May 2019 and January 2022. Multiple Deferral and Closure Requests have been submitted documenting attempts to safely work around the high-pressure pipeline for Incident Number NAB1913729531 with subsequent denials from the NMOCD. The last *Closure Request* was submitted on April 20, 2023, describing the most recent excavation and removal of residual soil impacts directly on top of a third-party pipeline. Because all of the impacted soil was removed, ultimately exposing the pipeline, there was no floor to sample. NMOCD still denied the April 2023 *Closure Request* stating:

The closure report is denied. The OCD requests a letter from Energy Transfer stating that they will not allow remediation next to the high pressure pipeline for safety reasons. The letter will need to go into the incident file with the closure report and Energy Transfer SOP.

XTO Energy, Inc.
Closure Request
Big Sinks 2-24-30 State Battery

XTO responded via phone and email requesting additional clarification, because the requested letter from Energy Transfer was no longer needed. NMOCD responded and requested additional confirmation soil samples. The April 2023 Closure Request and email correspondence with NMOCD are included in Appendices A and B, respectively.

Previously collected confirmation soil samples SW38 and SW40 documented removal of impacted soil along the sidewalls of the final excavation. The exposed pipeline was the floor of the final excavation. Wanting to have no further action for this incident number, XTO requested Ensolum return to the Site and attempt to collect additional confirmation samples of soil surrounding the pipeline to verify the absence of impacts and re-request Site closure.

Since the release overlapped the well pad and pipeline right-of-way siting buffers, assessments of cultural properties have already been completed prior to the release and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

Ensolum was on Site on May 12, 2023 to collect two confirmation floor soil samples, FS13 and FS14 (Figure 2) at depths of 4 feet below ground surface (bgs). The two 5-point composite soil samples represented up to 200 square feet from the of the previous excavation and included soil directly around the pipeline. 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.



Photograph 1 – exposed pipeline and confirmation soil sample locations, view southeast.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COC): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and

XTO Energy, Inc.
 Closure Request
 Big Sinks 2-24-30 State Battery

TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for floor soil samples FS14 and FS15 indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement. Table 1 summarized the analytical results of the confirmation samples. The laboratory analytical report is included in Appendix C.

Portions of the release occurred off pad in the pasture and as such, a reclamation requirement of 600 milligrams per kilogram (mg/kg) chloride and 100 mg/kg total petroleum hydrocarbons (TPH) was applied to the top 4 feet of the off pad area that was impacted by the release per Title 19, Chapter 15, Part 29, Section 13.D(1) (19.15.29.13.D (1)) of the New Mexico Administrative Code (NMAC) for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1 foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: shallow medium-grained sand with trace silt from the ground surface to approximately 3 feet bgs. Greater than 3 feet bgs, soil is characterized as caliche made up of sand and gravels with trace silt;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: Sandy with Tall Grass (ST) as described in the NMSLO *Revegetation Guidelines Handbook for Southeastern New Mexico*, dated 2018;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, and/or drill seeding method(s);
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- If necessary, erosion control management will potentially include:
 - The placement of wattles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation will be completed upon approval of this *Closure Request* and prior to reseeding efforts;
- Seeding is anticipated to be completed in the Fall when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess

XTO Energy, Inc.
Closure Request
Big Sinks 2-24-30 State Battery

the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;

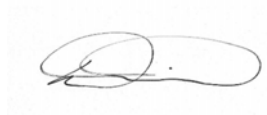
Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release. NMSLO approved the *Closure Request* on August 25, 2023, and documentation is provided in Appendix D.

CLOSURE REQUEST

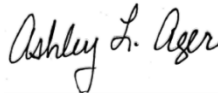
Based on the totality of remedial actions completed at the Site, no further remediation appears warranted at this time. Excavation of impacted soil has mitigated impacts at this Site and soil confirmation samples have documented the absence of impacts, validating all remedial actions completed to-date have been protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAB1913729531.

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

Sincerely,
Ensolum, LLC



Daniel R. Moir, PG
Senior Managing Geologist



Ashley L. Ager, MS, PG
Principal

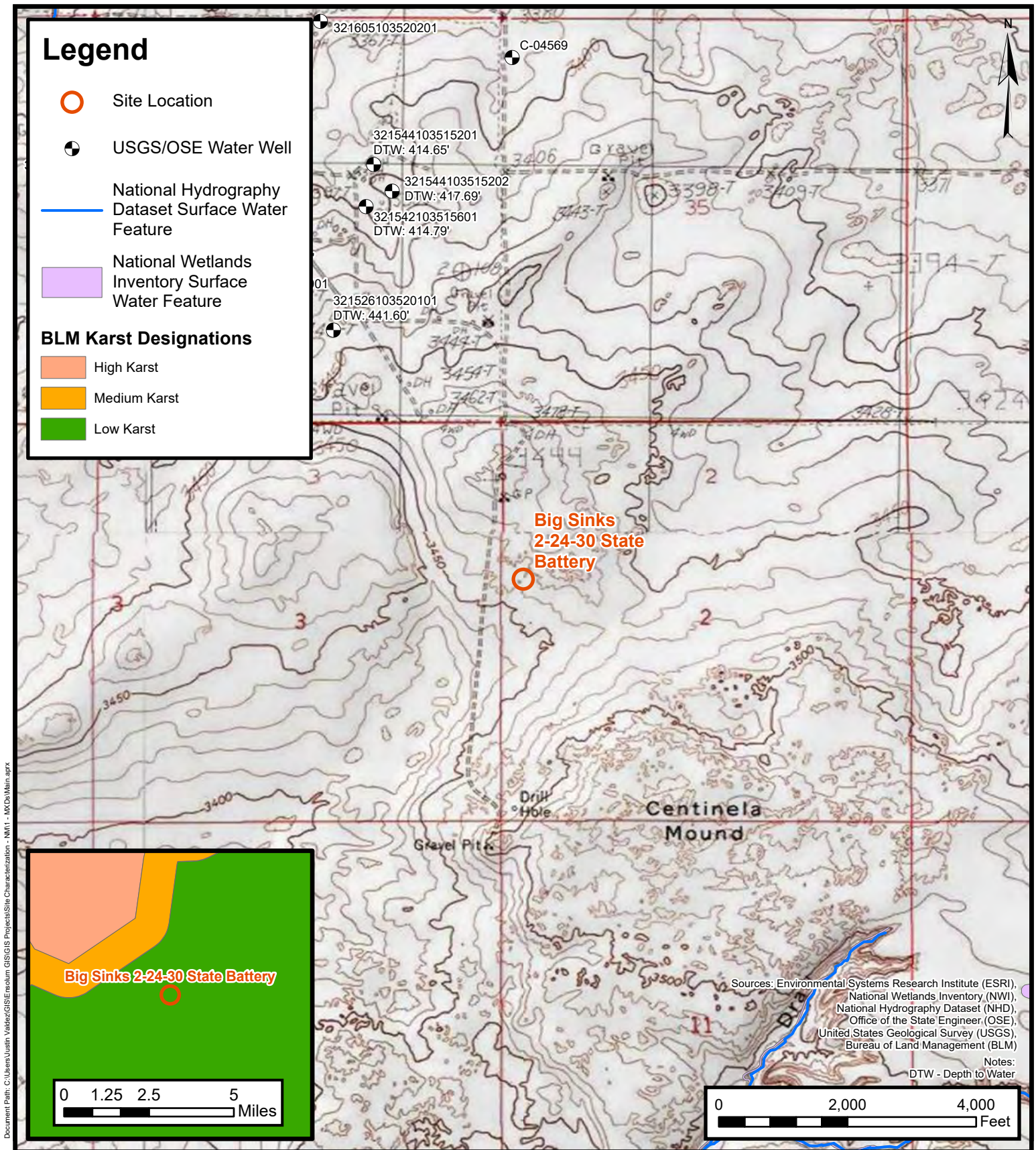
cc: Garrett Green, XTO
Shelby Pennington, XTO
New Mexico State Land Office

Appendices:

| | |
|------------|---|
| Figure 1 | Site Receptor Map |
| Figure 2 | Excavation Extent Map |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Closure Request, dated April 13, 2023 |
| Appendix B | NMOCD Denial Correspondence |
| Appendix C | Laboratory Analytical Report and Chain-of-Custody Documentation |
| Appendix D | NMSLO Approval |



Figures



Site Receptor Map

Big Sinks 2-24-30 State Battery
XTO ENERGY, INC

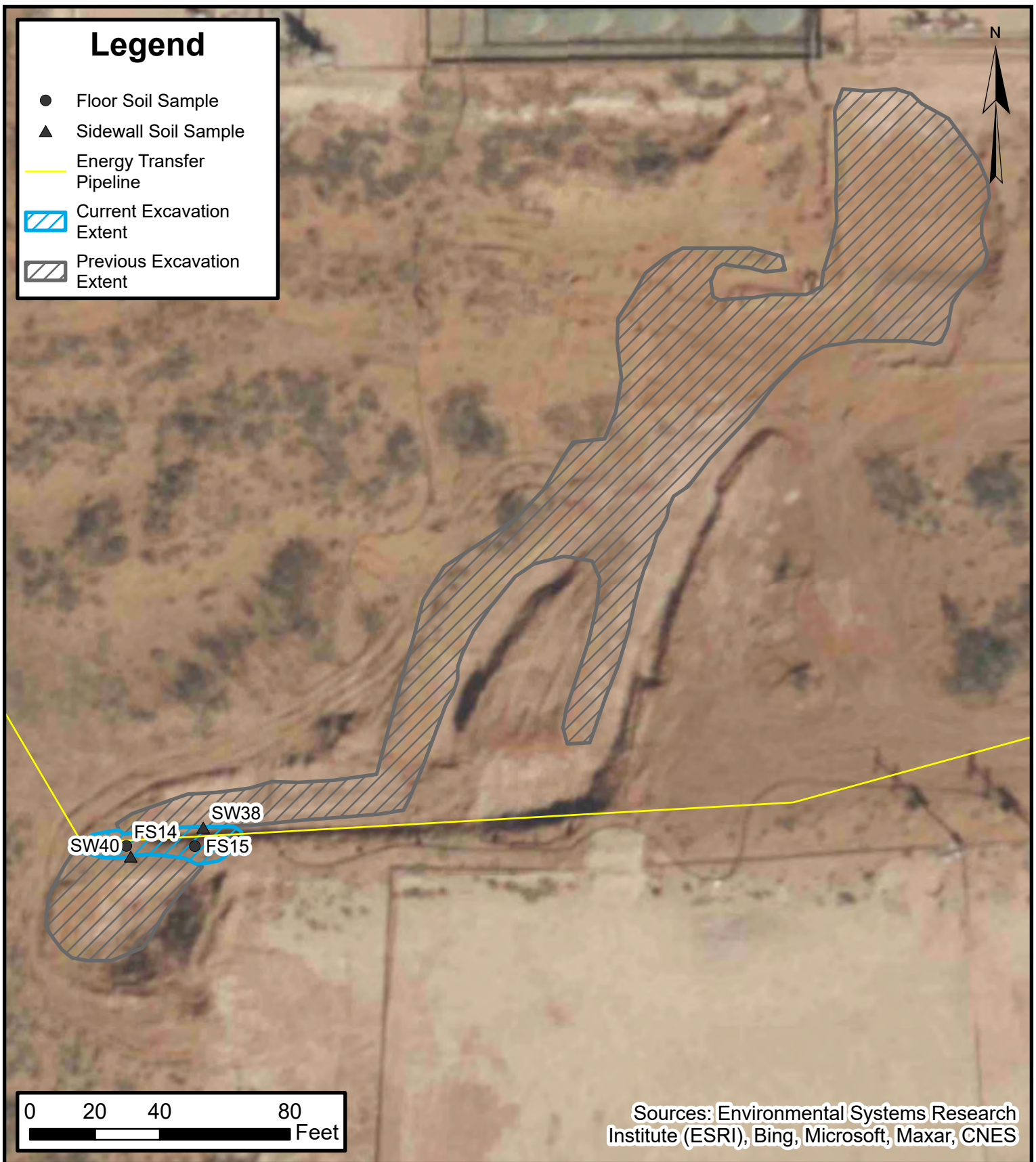
Incident Number: NAB1913729531

Unit E, Section 2, Township 24 South, Range 30 East
Eddy County, New Mexico

FIGURE

1

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



Excavation Extent Map

Big Sinks 2-24-30 State Battery
XTO Energy, Inc.

Incident Number: NAB1913729531
Unit E, Section 2, Township 24 South, Range 30 East
Eddy County, New Mexico

FIGURE
2



Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Site Name
XTO Energy, Inc.
Eddy County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Confirmation Soil Samples | | | | | | | | | | |
| FS14 | 05/12/2023 | 4 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 69.7 |
| FS15 | 05/12/2023 | 4 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 74.9 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A

Closure Request



April 13, 2023

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

**Re: Closure Request
Big Sinks 2-24-30 State Battery
Incident Number NAB1913729531
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document the final excavation of residual soil impacts on top of a third-party pipeline at the Big Sinks 2-24-30 State Battery (Site). Based on removal of all residually impacted soil at the Site, XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further action for Incident Number NAB1913729531.

SITE DESCRIPTION, RELEASE SUMMARY, AND BACKGROUND

The Site is located in Unit E, Section 2, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.248381°, -103.859348°) and is associated with oil and gas exploration and production operations on New Mexico state land (Figure 1).

On April 25, 2019, an open valve on a circulating pump resulted in the release of approximately 70 barrels (bbls) of crude oil onto the caliche well pad at the Site and into the pasture area south of the well pad. The valve was closed to stop the release of fluid. No fluid was recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 2, 2019. The release was assigned Incident Number NAB1913729531.

Remedial actions were completed at the Site between May 2019 and February 2020. A *Deferral Request* was prepared by LT Environmental, Inc. and submitted to the NMOCD on March 24, 2020. The *Deferral Request* described Site assessment, delineation, excavation, and soil sampling activities. Due to the presence of a third-party high-pressure pipeline, owned and operated by Energy Transfer, within the release extent footprint, excavation of impacted soil immediately adjacent to and on top of the pipeline was not allowed due to safety concerns. As such XTO requested to defer impacted soil present on top of the pipeline and within 2 feet of either side of the pipeline until access around the pipeline was granted or the pipeline was decommissioned. The *Deferral Request* was denied by NMOCD on June 10, 2020 since the deferral area was not located on an active well pad.

Following NMOCD's denial of the *Deferral Request*, XTO contracted with WSP USA, Inc. (WSP) to address residual impacts on top of and adjacent to the high-pressure pipeline. Between July 2020 and

XTO Energy, Inc.
Closure Request
Big Sinks 2-24-30 State Battery

February 2021, WSP oversaw applications of a MicroBlaze® solution along the excavation sidewalls adjacent to the pipeline to promote biodegradation of residual petroleum hydrocarbons. Final confirmation sampling indicated all chemicals of concern (COCs) were compliant with the Site-specific Closure Criteria and reclamation requirement with the exception of total petroleum hydrocarbon (TPH) concentrations in sidewall soil samples SW38 and SW40; however, no further excavation of the residual impacts could take place due to the presence of the pipeline and Energy Transfer's safety policy. With reductions in petroleum hydrocarbons documented as a result of MicroBlaze® applications, XTO requested once again to leave the residual impacts in-place through a *Variance and Closure Request*, dated August 6, 2021. The NMOCD denied the request on November 19, 2021.

Details of previous remediation activities completed at the Site, referenced in the *Deferral Request* as well as the *Variance and Closure Request*, can be found on the NMOCD website.

EXCAVATION ACTIVITIES

Following the November 2021 denial of leaving residual petroleum hydrocarbon impacts on top of the high-pressure pipeline based composite soil samples SW38 and SW40, XTO re-evaluated remedial options to address soil impacts. In late 2022, Energy Transfer's safety policy was revised to allow excavation up to and around their pipelines through non-mechanical means such as the use of a hydrovac and/or hand shoveling. As such, XTO contracted Ensolum to oversee non-mechanical excavation of residual soil impacts on top of the pipeline. Between December 20, 2022 and January 25, 2023, Ensolum oversaw the excavation of soil impacts via hand shoveling. Hand shoveling removed all soil on top of the pipeline within and beyond the release extent. Approximately 30 cubic yards of residual impacted soil was excavated and transported to a New Mexico-approved landfill. Removal of the soil eliminated any remaining interior sidewalls and no additional samples were required. The previous excavation extents and the final excavation area are depicted on Figure 2. Photographic documentation is presented in Appendix A.

CLOSURE REQUEST

Following the April 2019 release of 70 bbls of crude oil, initial excavation activities removed 1,950 cubic yards of impacted soil. Due to the presence of a third-party high-pressure pipeline within the release extent, soil on top of and directly adjacent to the pipeline was requested to be deferred until access to the area was granted by Energy Transfer. Following NMOCD's denial of the *Deferral Request* in June 2020, an additional 85.5 cubic yards of residually impacted soil was removed and multiple applications of MicroBlaze® were applied on top of the pipeline to support natural attenuation of residual petroleum hydrocarbon impacts on top of the pipeline where soil could not be safely removed per Energy Transfer's safety policy. A *Variance and Closure Request* was submitted to NMOCD requesting the approval of leaving in-place a minimal volume of soil containing petroleum hydrocarbons, which was deemed to be equally protective of human health, the environment, and groundwater; however, NMOCD determined the variance was not protective and issued a denial in November 2021. Energy Transfer updated their safety policy in late 2022 to allow non-mechanical means to excavate around their pipelines. As such, all residually impacted soil on top of the pipeline was removed via hand shoveling in December 2022 and January 2023. All impacted soil associated with the April 2019 release has been properly excavated and disposed of at a permitted landfill.

Based on the totality of remedial actions completed at the Site, no further remediation appears warranted at this time. Excavation of impacted soil has mitigated impacts at this Site. XTO believes these remedial actions have been protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAB1913729531.

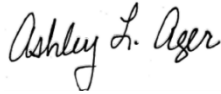
XTO Energy, Inc.
Closure Request
Big Sinks 2-24-30 State Battery

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

Sincerely,
Ensolum, LLC



Daniel R. Moir, PG
Senior Managing Geologist



Ashley L. Ager, MS, PG
Principal

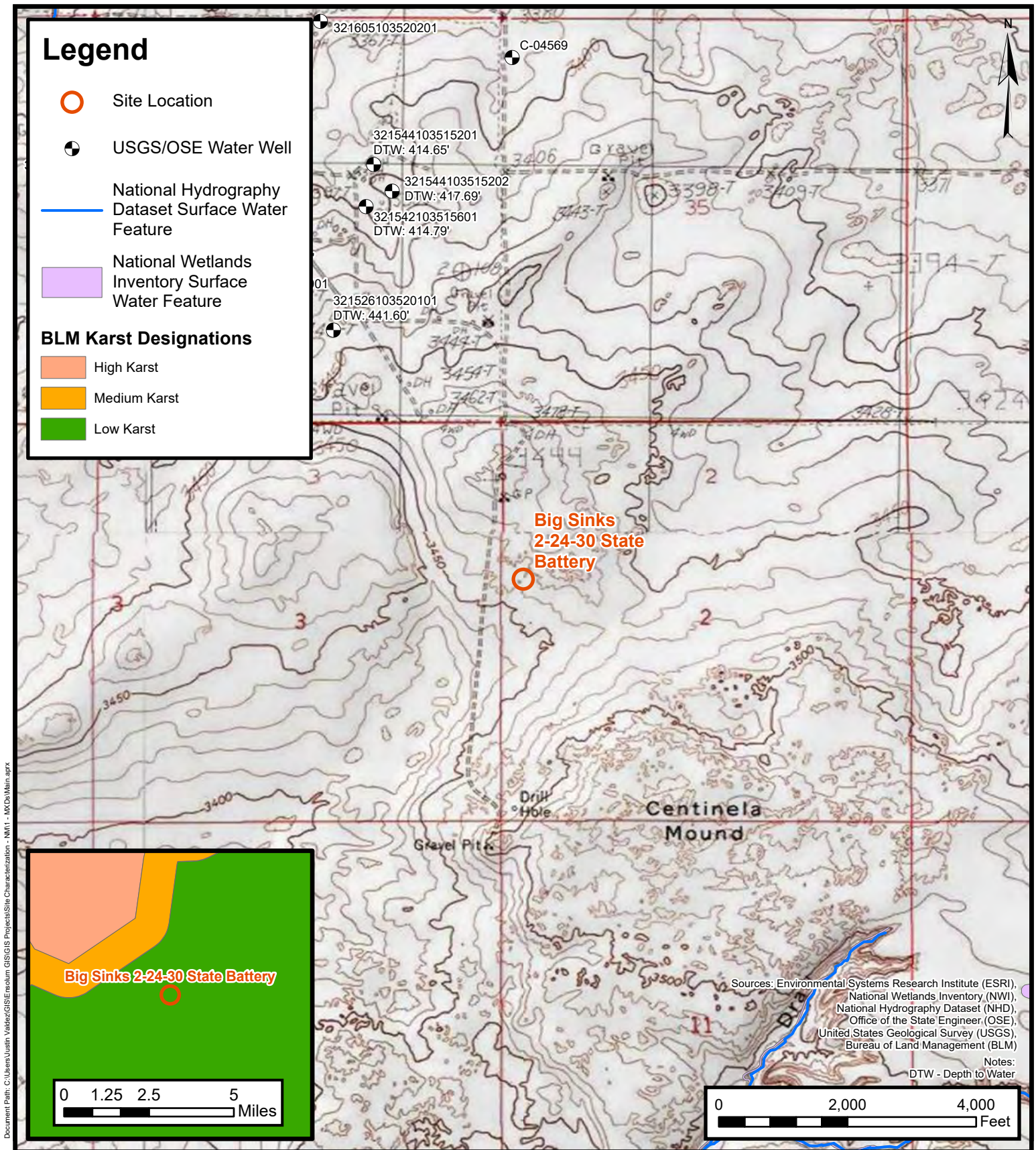
cc: Garrett Green, XTO
Shelby Pennington, XTO
New Mexico State Land Office

Appendices:

| | |
|------------|--------------------------------|
| Figure 1 | Site Receptor Map |
| Figure 2 | Excavation Extent Map |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Photographic Log |
| Appendix B | NMOCD Notifications |



Figures



Site Receptor Map

Big Sinks 2-24-30 State Battery
XTO ENERGY, INC

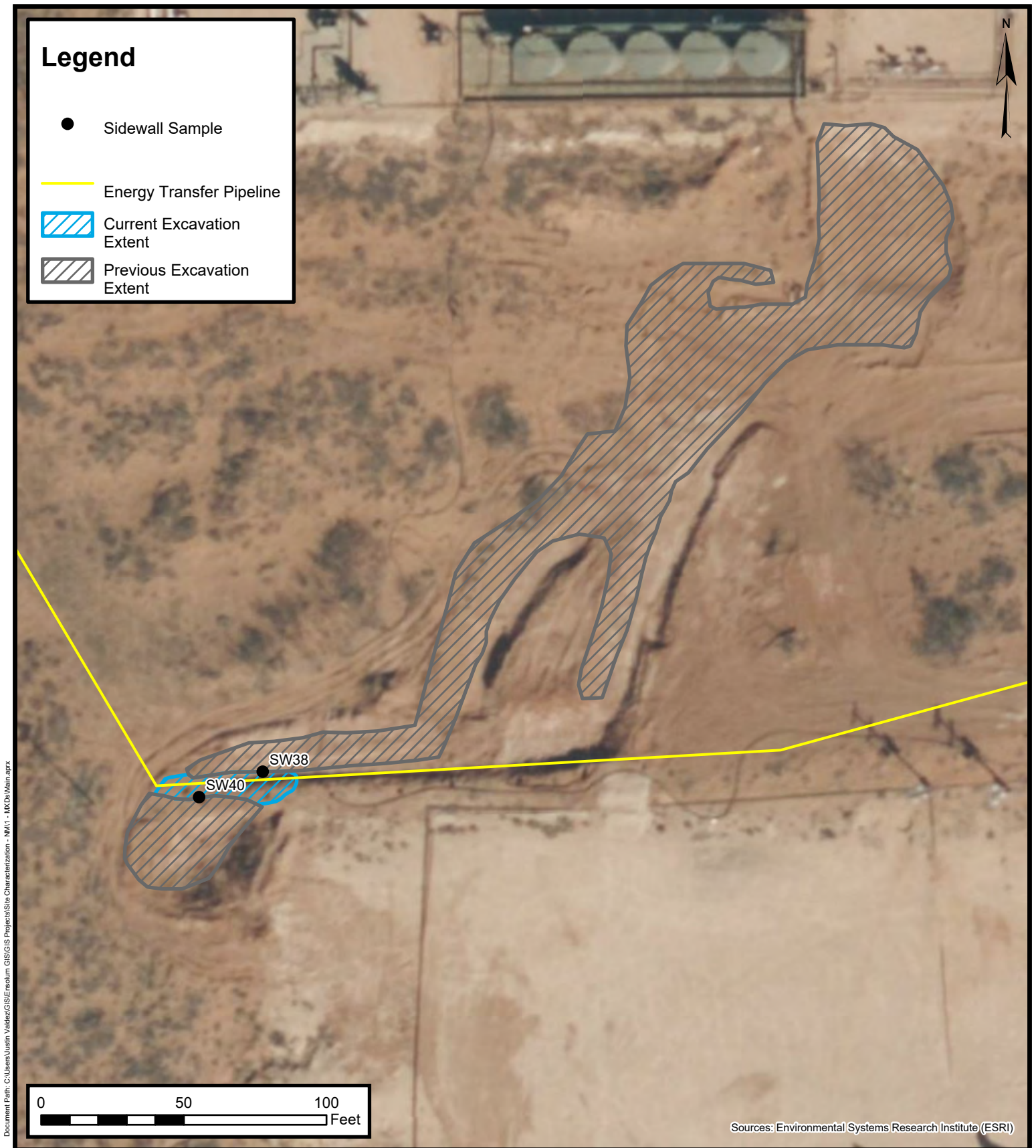
Incident Number: NAB1913729531

Unit E, Section 2, Township 24 South, Range 30 East
Eddy County, New Mexico

FIGURE

1

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



Excavation Extent Map

Big Sinks 2-24-30 State Battery

XTO ENERGY, INC

Incident Number: NAB1913729531

Unit E, Section 2, Township 24 South, Range 30 East
Eddy County, New Mexico

FIGURE

2



APPENDIX A

Photographic Log



Photographic Log

XTO Energy, Inc.

Big Sinks 2-24-30 State Battery

Incident Number NAB1913729531



Photograph 1

Date: 12/20/2022

Description: Marked deferral area to be excavated, view west.



Photograph 2

Date: 1/25/2023

Description: Excavation of impacted soil on top of Energy Transfer pipeline, view east.



Photograph 3

Date: 1/25/2023

Description: Exposed Energy pipeline, view west.



Photograph 4

Date: 1/25/2023

Description: Final excavation on top of Energy Transfer pipeline, view east.



APPENDIX B

NMOCD Notification

From: [Green, Garrett J](#)
To: ocd.enviro@emnrd.nm.gov; [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Cc: [Tacoma Morrissey; DelawareSpills /SM](#)
Subject: XTO - Sampling Notification (Week of 12/5/22 - 12/9/22)
Date: Thursday, December 1, 2022 9:49:11 AM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Dec 5, 2022.

- Row 4 Muy Wayno Line/ nAPP2209039217
- Big Sinks 2-24-30 Battery/ NAB1913729531

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



APPENDIX B

NMOCD Denial Response

From: [Green, Garrett J](#)
To: [Tacoma Morrissey](#)
Subject: FW: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 209122
Date: Friday, April 21, 2023 11:47:02 AM
Importance: High

[**EXTERNAL EMAIL**]

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Friday, April 21, 2023 10:39 AM
To: Green, Garrett J <garrett.green@exxonmobil.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 209122

External Email - Think Before You Click

Good morning, Mr. Green

Thank you for reaching out, I have not received a work phone yet as I'm a new employee. Do you have confirmation samples to provide for the final clean-up? I did not see them in the closure report that was provided and cannot confirm that soil is remediated fully without those for closure.

Respectfully,

Mike Buchanan

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Friday, April 21, 2023 9:37 AM
To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 209122
Importance: High

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

Good morning Michael,

I attempted to reach out by phone to discuss this denial but have been unsuccessful. Please provide some clarification for this denial. I have attached the submitted report. In the Closure Request section of the report it states "Energy Transfer updated their safety policy in late 2022 to allow non-

mechanical means to excavate around their pipelines. As such, all residually impacted soil on top of the pipeline was removed via hand shoveling in December 2022 and January 2023. All impacted soil associated with the April 2019 release has been properly excavated and disposed of at a permitted landfill." A letter from Energy Transfer should not be necessary in this case. Please let me know if I am missing something.

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Thursday, April 20, 2023 11:00 AM
To: Green, Garrett J <garrett.green@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>
Cc: Ashley Ager <aager@ensolum.com>
Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 209122

Big Sinks Closure denied –

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, April 20, 2023 10:34 AM
To: Collins, Melanie <melanie.collins@exxonmobil.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 209122

External Email - Think Before You Click

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1913729531, for the following reasons:

The closure report is denied. The OCD requests a letter from Energy Transfer stating that they will not allow remediation next to the high pressure pipeline for safety reasons. The letter will need to go into the incident file with the closure report and Energy Transfer's SOP.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 209122.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Michael Buchanan

505-476-3441

Michael.Buchanan@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505



APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/18/2023 2:58:58 PM

JOB DESCRIPTION

Big Sinks 2-24-30 Battery
SDG NUMBER 03E1558128

JOB NUMBER

890-4663-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/18/2023 2:58:58 PM

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

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Laboratory Job ID: 890-4663-1
SDG: 03E1558128

Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 8 |
| QC Sample Results | 9 |
| QC Association Summary | 13 |
| Lab Chronicle | 15 |
| Certification Summary | 16 |
| Method Summary | 17 |
| Sample Summary | 18 |
| Chain of Custody | 19 |
| Receipt Checklists | 20 |

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Job ID: 890-4663-1

Laboratory: Eurofins Carlsbad

Narrative**Job Narrative
890-4663-1****Receipt**

The samples were received on 5/15/2023 9:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS14 (890-4663-1) and FS15 (890-4663-2).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53588 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS14 (890-4663-1) and FS15 (890-4663-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-53588/2), (CCV 880-53588/20), (CCV 880-53588/33), (CCV 880-53588/51), (LCS 880-53497/1-A) and (LCSD 880-53497/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4660-A-1-I). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-4660-A-1-G MS) and (890-4660-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-53497 and analytical batch 880-53588 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53497 and analytical batch 880-53588 were outside control limits for one or more analytes. These analytes were biased high and were not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53468 and analytical batch 880-53448 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53475 and analytical batch 880-53583 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Client Sample ID: FS14

Lab Sample ID: 890-4663-1

Date Collected: 05/12/23 08:10

Matrix: Solid

Date Received: 05/15/23 09:36

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U ** | 0.00199 | mg/Kg | | 05/16/23 15:29 | 05/18/23 11:56 | 1 |
| Toluene | <0.00199 | U ** | 0.00199 | mg/Kg | | 05/16/23 15:29 | 05/18/23 11:56 | 1 |
| Ethylbenzene | <0.00199 | U ** | 0.00199 | mg/Kg | | 05/16/23 15:29 | 05/18/23 11:56 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U ** | 0.00398 | mg/Kg | | 05/16/23 15:29 | 05/18/23 11:56 | 1 |
| o-Xylene | <0.00199 | U ** | 0.00199 | mg/Kg | | 05/16/23 15:29 | 05/18/23 11:56 | 1 |
| Xylenes, Total | <0.00398 | U ** | 0.00398 | mg/Kg | | 05/16/23 15:29 | 05/18/23 11:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 245 | S1+ | 70 - 130 | 05/16/23 15:29 | 05/18/23 11:56 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | 05/16/23 15:29 | 05/18/23 11:56 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 05/18/23 15:49 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 05/17/23 11:56 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/16/23 11:44 | 05/17/23 03:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 05/16/23 11:44 | 05/17/23 03:58 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/16/23 11:44 | 05/17/23 03:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 124 | | 70 - 130 | 05/16/23 11:44 | 05/17/23 03:58 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | 05/16/23 11:44 | 05/17/23 03:58 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 69.7 | | 5.01 | mg/Kg | | | 05/17/23 17:33 | 1 |

Client Sample ID: FS15

Lab Sample ID: 890-4663-2

Date Collected: 05/12/23 08:15

Matrix: Solid

Date Received: 05/15/23 09:36

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U ** | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 12:22 | 1 |
| Toluene | <0.00200 | U ** | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 12:22 | 1 |
| Ethylbenzene | <0.00200 | U ** | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 12:22 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U ** | 0.00399 | mg/Kg | | 05/16/23 15:29 | 05/18/23 12:22 | 1 |
| o-Xylene | <0.00200 | U ** | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 12:22 | 1 |
| Xylenes, Total | <0.00399 | U ** | 0.00399 | mg/Kg | | 05/16/23 15:29 | 05/18/23 12:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 207 | S1+ | 70 - 130 | 05/16/23 15:29 | 05/18/23 12:22 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Client Sample ID: FS15

Lab Sample ID: 890-4663-2

Date Collected: 05/12/23 08:15

Matrix: Solid

Date Received: 05/15/23 09:36

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 78 | | 70 - 130 | 05/16/23 15:29 | 05/18/23 12:22 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 05/18/23 15:49 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 05/17/23 11:56 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/16/23 11:44 | 05/17/23 04:20 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/16/23 11:44 | 05/17/23 04:20 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/16/23 11:44 | 05/17/23 04:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 05/16/23 11:44 | 05/17/23 04:20 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | | | 05/16/23 11:44 | 05/17/23 04:20 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 74.9 | | 4.97 | mg/Kg | | | 05/17/23 17:39 | 1 |

Surrogate Summary

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-4660-A-1-G MS | Matrix Spike | 203 S1+ | 103 |
| 890-4660-A-1-H MSD | Matrix Spike Duplicate | 173 S1+ | 91 |
| 890-4663-1 | FS14 | 245 S1+ | 83 |
| 890-4663-2 | FS15 | 207 S1+ | 78 |
| LCS 880-53497/1-A | Lab Control Sample | 196 S1+ | 93 |
| LCSD 880-53497/2-A | Lab Control Sample Dup | 198 S1+ | 88 |
| MB 880-53497/5-A | Method Blank | 106 | 76 |
| MB 880-53508/5-A | Method Blank | 102 | 80 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-4660-A-1-B MS | Matrix Spike | 119 | 82 |
| 890-4660-A-1-C MSD | Matrix Spike Duplicate | 118 | 82 |
| 890-4663-1 | FS14 | 124 | 93 |
| 890-4663-2 | FS15 | 122 | 90 |
| LCS 880-53468/2-A | Lab Control Sample | 104 | 83 |
| LCSD 880-53468/3-A | Lab Control Sample Dup | 103 | 79 |
| MB 880-53468/1-A | Method Blank | 191 S1+ | 156 S1+ |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53497/5-A

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53497

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 04:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 04:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 04:11 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/16/23 15:29 | 05/18/23 04:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 15:29 | 05/18/23 04:11 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/16/23 15:29 | 05/18/23 04:11 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | 05/16/23 15:29 | 05/18/23 04:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 76 | | 70 - 130 | 05/16/23 15:29 | 05/18/23 04:11 | 1 |

Lab Sample ID: LCS 880-53497/1-A

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53497

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.1501 | *+ | mg/Kg | | 150 | 70 - 130 |
| Toluene | 0.100 | 0.1589 | *+ | mg/Kg | | 159 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1429 | *+ | mg/Kg | | 143 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.3204 | *+ | mg/Kg | | 160 | 70 - 130 |
| o-Xylene | 0.100 | 0.1494 | *+ | mg/Kg | | 149 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 196 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 |

Lab Sample ID: LCSD 880-53497/2-A

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53497

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.1376 | *+ | mg/Kg | | 138 | 70 - 130 | 9 | 35 |
| Toluene | 0.100 | 0.1387 | *+ | mg/Kg | | 139 | 70 - 130 | 14 | 35 |
| Ethylbenzene | 0.100 | 0.1324 | *+ | mg/Kg | | 132 | 70 - 130 | 8 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2988 | *+ | mg/Kg | | 149 | 70 - 130 | 7 | 35 |
| o-Xylene | 0.100 | 0.1354 | *+ | mg/Kg | | 135 | 70 - 130 | 10 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 198 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 |

Lab Sample ID: 890-4660-A-1-G MS

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53497

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00202 | U ** F1 | 0.0998 | 0.1372 | F1 | mg/Kg | | 137 | 70 - 130 |
| Toluene | <0.00202 | U ** F1 | 0.0998 | 0.1371 | F1 | mg/Kg | | 137 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

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

Lab Sample ID: 890-4660-A-1-G MS

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53497

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00202 | U *+ | 0.0998 | 0.1191 | | mg/Kg | | 119 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00404 | U *+ F1 | 0.200 | 0.2887 | F1 | mg/Kg | | 145 | 70 - 130 |
| o-Xylene | <0.00202 | U *+ F1 | 0.0998 | 0.1356 | F1 | mg/Kg | | 136 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|--------------|--------------|-----------|
| 4-Bromofluorobenzene (Surr) | 203 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

Lab Sample ID: 890-4660-A-1-H MSD

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53497

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00202 | U *+ F1 | 0.0990 | 0.1284 | | mg/Kg | | 130 | 70 - 130 | 7 | 35 |
| Toluene | <0.00202 | U *+ F1 | 0.0990 | 0.1357 | F1 | mg/Kg | | 137 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00202 | U *+ | 0.0990 | 0.1188 | | mg/Kg | | 120 | 70 - 130 | 0 | 35 |
| m-Xylene & p-Xylene | <0.00404 | U *+ F1 | 0.198 | 0.2600 | F1 | mg/Kg | | 131 | 70 - 130 | 10 | 35 |
| o-Xylene | <0.00202 | U *+ F1 | 0.0990 | 0.1225 | | mg/Kg | | 124 | 70 - 130 | 10 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|-----------------------------|---------------|---------------|------------|
| 4-Bromofluorobenzene (Surr) | 173 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 |

Lab Sample ID: MB 880-53508/5-A

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53508

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 16:07 | 05/17/23 14:52 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 16:07 | 05/17/23 14:52 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 16:07 | 05/17/23 14:52 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 05/16/23 16:07 | 05/17/23 14:52 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 05/16/23 16:07 | 05/17/23 14:52 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 05/16/23 16:07 | 05/17/23 14:52 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|-----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | 05/16/23 16:07 | 05/17/23 14:52 | 1 |
| 1,4-Difluorobenzene (Surr) | 80 | | 70 - 130 | 05/16/23 16:07 | 05/17/23 14:52 | 1 |

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

Lab Sample ID: MB 880-53468/1-A

Matrix: Solid

Analysis Batch: 53448

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53468

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 05/16/23 11:44 | 05/16/23 19:50 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

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

Lab Sample ID: MB 880-53468/1-A

Matrix: Solid

Analysis Batch: 53448

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53468

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 05/16/23 11:44 | 05/16/23 19:50 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 05/16/23 11:44 | 05/16/23 19:50 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 191 | S1+ | 70 - 130 | | | 05/16/23 11:44 | 05/16/23 19:50 | 1 |
| o-Terphenyl | 156 | S1+ | 70 - 130 | | | 05/16/23 11:44 | 05/16/23 19:50 | 1 |

Lab Sample ID: LCS 880-53468/2-A

Matrix: Solid

Analysis Batch: 53448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53468

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 900.4 | | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 949.6 | | mg/Kg | | 95 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1-Chlorooctane | 104 | | 70 - 130 | | | | |
| o-Terphenyl | 83 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-53468/3-A

Matrix: Solid

Analysis Batch: 53448

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53468

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 999 | 843.8 | | mg/Kg | | 84 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | 999 | 890.3 | | mg/Kg | | 89 | 70 - 130 | 6 | 20 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 103 | | 70 - 130 | | | | | | |
| o-Terphenyl | 79 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-4660-A-1-B MS

Matrix: Solid

Analysis Batch: 53448

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53468

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 1043 | | mg/Kg | | 102 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 900.3 | | mg/Kg | | 90 | 70 - 130 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 119 | | 70 - 130 | | | | | | |
| o-Terphenyl | 82 | | 70 - 130 | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

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

Lab Sample ID: 890-4660-A-1-C MSD

Matrix: Solid

Analysis Batch: 53448

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53468

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 1006 | | mg/Kg | | 99 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 891.8 | | mg/Kg | | 89 | 70 - 130 | 1 | 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 118 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 82 | | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53475/1-A

Matrix: Solid

Analysis Batch: 53583

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 05/17/23 15:46 | 1 |

Lab Sample ID: LCS 880-53475/2-A

Matrix: Solid

Analysis Batch: 53583

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250 | 255.6 | | mg/Kg | | 102 | 90 - 110 |

Lab Sample ID: LCSD 880-53475/3-A

Matrix: Solid

Analysis Batch: 53583

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250 | 257.4 | | mg/Kg | | 103 | 90 - 110 | 1 | 20 |

Lab Sample ID: 880-28465-A-3-F MS

Matrix: Solid

Analysis Batch: 53583

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 606 | F1 | 252 | 820.2 | F1 | mg/Kg | | 85 | 90 - 110 |

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QC Association Summary

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

GC VOA

Prep Batch: 53497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4663-1 | FS14 | Total/NA | Solid | 5035 | |
| 890-4663-2 | FS15 | Total/NA | Solid | 5035 | |
| MB 880-53497/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-53497/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-53497/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-4660-A-1-G MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-4660-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 53508

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-53508/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 53588

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4663-1 | FS14 | Total/NA | Solid | 8021B | 53497 |
| 890-4663-2 | FS15 | Total/NA | Solid | 8021B | 53497 |
| MB 880-53497/5-A | Method Blank | Total/NA | Solid | 8021B | 53497 |
| MB 880-53508/5-A | Method Blank | Total/NA | Solid | 8021B | 53508 |
| LCS 880-53497/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 53497 |
| LCSD 880-53497/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 53497 |
| 890-4660-A-1-G MS | Matrix Spike | Total/NA | Solid | 8021B | 53497 |
| 890-4660-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 53497 |

Analysis Batch: 53697

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4663-1 | FS14 | Total/NA | Solid | Total BTEX | |
| 890-4663-2 | FS15 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 53448

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4663-1 | FS14 | Total/NA | Solid | 8015B NM | 53468 |
| 890-4663-2 | FS15 | Total/NA | Solid | 8015B NM | 53468 |
| MB 880-53468/1-A | Method Blank | Total/NA | Solid | 8015B NM | 53468 |
| LCS 880-53468/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 53468 |
| LCSD 880-53468/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 53468 |
| 890-4660-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 53468 |
| 890-4660-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 53468 |

Prep Batch: 53468

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-4663-1 | FS14 | Total/NA | Solid | 8015NM Prep | |
| 890-4663-2 | FS15 | Total/NA | Solid | 8015NM Prep | |
| MB 880-53468/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-53468/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-53468/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-4660-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-4660-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

GC Semi VOA

Analysis Batch: 53592

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4663-1 | FS14 | Total/NA | Solid | 8015 NM | |
| 890-4663-2 | FS15 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 53475

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-4663-1 | FS14 | Soluble | Solid | DI Leach | |
| 890-4663-2 | FS15 | Soluble | Solid | DI Leach | |
| MB 880-53475/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-53475/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-53475/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-28465-A-3-F MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-28465-A-3-F MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 53583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4663-1 | FS14 | Soluble | Solid | 300.0 | 53475 |
| 890-4663-2 | FS15 | Soluble | Solid | 300.0 | 53475 |
| MB 880-53475/1-A | Method Blank | Soluble | Solid | 300.0 | 53475 |
| LCS 880-53475/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 53475 |
| LCSD 880-53475/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 53475 |
| 880-28465-A-3-F MS | Matrix Spike | Soluble | Solid | 300.0 | 53475 |
| 880-28465-A-3-F MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 53475 |

Lab Chronicle

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Client Sample ID: FS14
Date Collected: 05/12/23 08:10
Date Received: 05/15/23 09:36

Lab Sample ID: 890-4663-1
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 53497 | 05/16/23 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 53588 | 05/18/23 11:56 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 53697 | 05/18/23 15:49 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 53592 | 05/17/23 11:56 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 53468 | 05/16/23 11:44 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 53448 | 05/17/23 03:58 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 53475 | 05/16/23 12:01 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 53583 | 05/17/23 17:33 | CH | EET MID |

Client Sample ID: FS15
Date Collected: 05/12/23 08:15
Date Received: 05/15/23 09:36

Lab Sample ID: 890-4663-2
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 53497 | 05/16/23 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 53588 | 05/18/23 12:22 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 53697 | 05/18/23 15:49 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 53592 | 05/17/23 11:56 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 53468 | 05/16/23 11:44 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 53448 | 05/17/23 04:20 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 53475 | 05/16/23 12:01 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 53583 | 05/17/23 17:39 | CH | EET MID |

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-22-25 | 06-30-23 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Big Sinks 2-24-30 Battery

Job ID: 890-4663-1
SDG: 03E1558128

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-4663-1 | FS14 | Solid | 05/12/23 08:10 | 05/15/23 09:36 | 4' |
| 890-4663-2 | FS15 | Solid | 05/12/23 08:15 | 05/15/23 09:36 | 4' |

- 1
- 2
- 3
- 4
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- 11
- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199


Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

| | | | |
|------------------|-------------------------|-------------------------|-----------------------------|
| Project Manager: | Tacoma Morrissey | Bill to: (if different) | Garret Green |
| Company Name: | Ensolum | Company Name: | XTO Energy |
| Address: | 3122 National Parks Hwy | Address: | 3104 E. Green St. |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 303-887-2946 | Email: | Garret.Green@ExxonMobil.com |

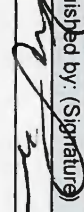
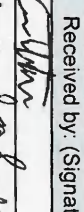
| | |
|--|--|
| Work Order Comments | |
| Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> | |
| State of Project: | |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> | |
| Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: | |

| | | | | | |
|---|---|---|---|------------|---|
| Project Name: | Big Sinks 2-24-30 Battery | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Number: | 03E1558128 | Due Date: | | | |
| Project Location: | 32,248381, -103,859348 | TAT starts the day received by the lab, if received by 4:30pm | | | |
| Sampler's Name: | Kase Parker | | | | |
| PO #: | | | | | |
| SAMPLE RECEIPT | | | | | |
| Samples Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temp Blank: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | TMA-027 | | |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | -0.2 | | |
| Total Containers: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temperature Reading: | 2.2 | | |
| | | Corrected Temperature: | 2.0 | | |
| Parameters | | | | | |
| CHLORIDES (EPA: 300.0) | | | | | |
| TPH (8015) | | | | | |
| BTX (8021) | | | | | |
|  | | | | | |
| 890-4663 Chain of Custody | | | | | |
| ANALYSIS REQUEST | | | | | |
| Preservative Codes | | | | | |
| None: NO | DI Water: H ₂ O | | | | |
| Cool: Cool | MeOH: Me | | | | |
| HCL: HC | HNO ₃ : HN | | | | |
| H ₂ SO ₄ : H ₂ | NaOH: Na | | | | |
| H ₃ PO ₄ : HP | | | | | |
| NaHSO ₄ : NABIS | | | | | |
| Na ₂ S ₂ O ₃ : NaSO ₃ | | | | | |
| Zn Acetate+NaOH: Zn | | | | | |
| NaOH+Ascorbic Acid: SAPC | | | | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTX (8021) | ANALYSIS REQUEST | Preservative Codes |
|---|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|------------|------------------|--------------------|
| FS14 | S | 5/12/2023 | 8:10 | 4' | Comp | 1 | X | X | X | | |
| FS15 | S | 5/12/2023 | 8:15 | 4' | Comp | 1 | X | X | X | | |
| <div>Incident ID: NAB1913729531</div> <div>Cost Center: 1080751001</div> <div>A/E: EW.2020.02955.EXP.01</div> <div>tmorrissey@ensolum.com</div> | | | | | | | | | | | |

| | | | | |
|--|---------------|--|----------|---|
| Total 200.7 / 6010 | 200.8 / 6020: | 8RCRA 13PPM | Texas 11 | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | | TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | | Hg: 1631 / 245, 1 / 7470 / 7471 |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | | | | | |
|---|---|----------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|  |  | 5/15/23 8:30am | | | 2 |
| | | 5/15/23 0936 | | | 6 |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4663-1

SDG Number: 03E1558128

Login Number: 4663

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4663-1

SDG Number: 03E1558128

Login Number: 4663

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/16/23 10:43 AM

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |



APPENDIX D

NMSLO Approval

From: [Knight, Tami C.](#)
To: [Melanie Collins](#); [Garrett J Green](#)
Cc: [Ashley Ager](#); [Tacoma Morrissey](#)
Subject: Closure Report_Big Sinks 2-24-30_NAB1913729531_04252019
Date: Friday, August 25, 2023 1:10:13 PM

You don't often get email from tknight@slo.state.nm.us. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Melanie,

It looks like this remediation has been satisfied, after much go around with NMOCD. I did see that NMOCD rejected the subject closure report submittal, but I do not see why. ECO believes that 19.15.29.12 NMAC has been satisfied; however, we would need an addendum to show that the off pad area has been reclaimed/reseeded per 19.15.29.13 NMAC.

Please provide a quick follow up that the reclamation has been completed. The CPP Rule was not in effect at the time of the initial response and the pipeline is considered a previously disturbed area, so CPP Rule compliance documentation is not applicable to this closure report.

Tami Knight, CHMM

Environmental Specialist

SRD-Environmental

Compliance Office (ECO)

505.670.1638

New Mexico State Land Office

1300 W. Broadway Avenue, Suite A

Bloomfield, NM 87413

tknight@slo.state.nm.us

nmstatelands.org

.....

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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 270764

CONDITIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 270764 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| rhamlet | We have received your Remediation Closure Report for Incident #NAB1913729531 BIG SINKS 2 24 30 STATE #001H, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc..., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete". | 2/15/2024 |