



October 5, 2022

District 1
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Request
Baish B Battery
Incident Number NAPP2211143447
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Baish B Battery (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil at the Site. Based on the excavation activities and laboratory analytical results from soil sampling events, Maverick is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2211143447.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 22, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8177° N, 103.755° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 8, 2022, a gauge failure at the heater treater resulted in the release of approximately 2.2 barrels (bbls) of crude oil into the surrounding pasture. No free-standing fluids were recovered. The previous operator, ConocoPhillips Company, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on April 21, 2022. The release was assigned Incident Number NAPP2211143447.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141 (Appendix A), Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well RA-12521-POD1, located approximately 4,943 feet southwest of the Site. The groundwater well has a reported depth to

groundwater of 92 feet bgs and a total depth of 105 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a intermittent stream, located approximately 8,625 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

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

SITE ASSESMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 30, 2022, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary assessment soil samples (SS01 through SS04) were collected within the release extent at a depth of 0.5 feet bgs, to assess surficial soils within the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The visible release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated TPH-GRO/TPH-DRO and/or TPH concentrations exceeded the Site Closure Criteria and/or reclamation requirement. Based on visible staining in the release area and laboratory analytical results for preliminary soil samples SS01 through SS04, delineation activities appeared to be warranted.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

Between August 12 and August 23, 2022, Ensolum personnel were at the Site to oversee delineation activities. Boreholes BH01 through BH04 were advanced via hand auger within the release extent to assess the vertical extent of impacted soil. The boreholes were advanced at depths ranging from 1-foot to 3 feet bgs. Delineation soil samples were collected from each borehole at depths ranging from 1-foot to 3 feet bgs. Additionally, four lateral delineation soil samples (SS05 through SS08) were collected around the release extent at a depth of 0.5 feet bgs, to assess the lateral extent of the release. Soil from the boreholes and delineation soil samples was field screened for VOCs and chloride. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix C. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix D.

Laboratory analytical results for the delineation soil samples collected around the release extent (SS05 through SS08), indicated concentrations of all COCs were compliant with the Site Closure Criteria and reclamation requirement and successfully defined the lateral extent of the release. Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH04 indicated TPH concentrations exceeded the Site Closure Criteria and reclamation requirement at depths ranging from 1-foot to 2 feet bgs. The terminal depth samples from boreholes BH01 and BH03, collected at 3 feet bgs, were compliant with the reclamation requirement, indicating vertical delineation of impacted and/or waste-containing soil related to the release. The delineation soil sample locations are depicted on Figure 3.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

On August 22, 2022, impacted soil was excavated from the off-pad release area as indicated by visible staining and laboratory analytical results for the delineation soil samples. Excavation activities, completed in the pasture area, were performed using a track-mounted backhoe, hydrovac, and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS08 were collected from the floor of the excavation at depths ranging from 2 feet to 3 feet bgs. Composite soil samples SW01 through SW05 were collected from the sidewalls of the excavation from depths ranging from the ground surface to a maximum 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 4.

Laboratory analytical results for all confirmation soil samples were compliant with the Site Closure Criteria. Laboratory analytical results for excavation soil samples FS05 and FS06 indicated TPH concentrations exceeded the reclamation requirement and additional remediation activities were warranted.

Ensolum personnel returned to the Site on September 23, 2022, to oversee additional excavation activities based on laboratory analytical results for the excavation soil samples. Additional soil was removed from the vicinity of the two confirmation soil sample locations and subsequent excavation soil samples FS05A and FS06A were collected.

Laboratory analytical results for excavation soil samples FS01 through FS04, FS05A, FS06A, FS07 through FS08, and SW01 through SW05, collected from the final excavation extent, indicated



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concentrations of all COCs were compliant with the Site Closure Criteria and reclamation requirements. Laboratory analytical results are provided on Table 1 and laboratory analytical reports are included as Appendix E.

The excavation measured approximately 1,449 square feet in areal extent. A total of approximately 161 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

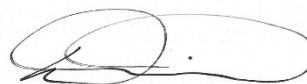
Site assessment and excavation activities were conducted at the Site to address the April 8, 2022, release of crude oil. Laboratory analytical results for the excavation soil samples indicated concentrations of all COCs were compliant with the Site Closure Criteria and reclamation requirement. Based on the laboratory analytical results, no further remediation appears to be required. Maverick will backfill the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be between 51 feet and 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2211143447. If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC



Kalei Jennings
Senior Scientist



Daniel, R. Moir, PG
Senior Managing Geologist

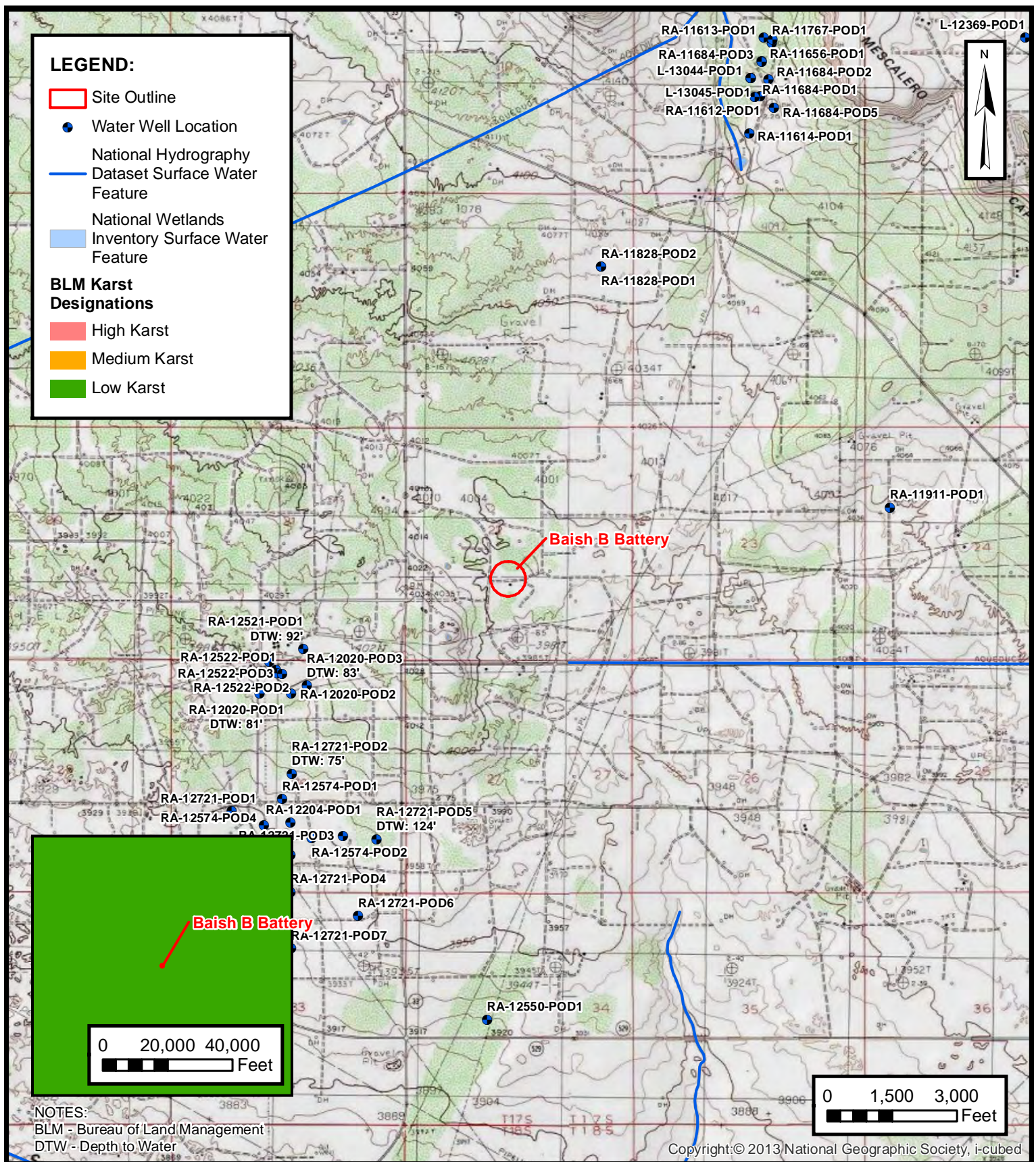
cc: Bryce Wagoner, Maverick Natural Resources
Bureau of Land Management

Attachments:

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



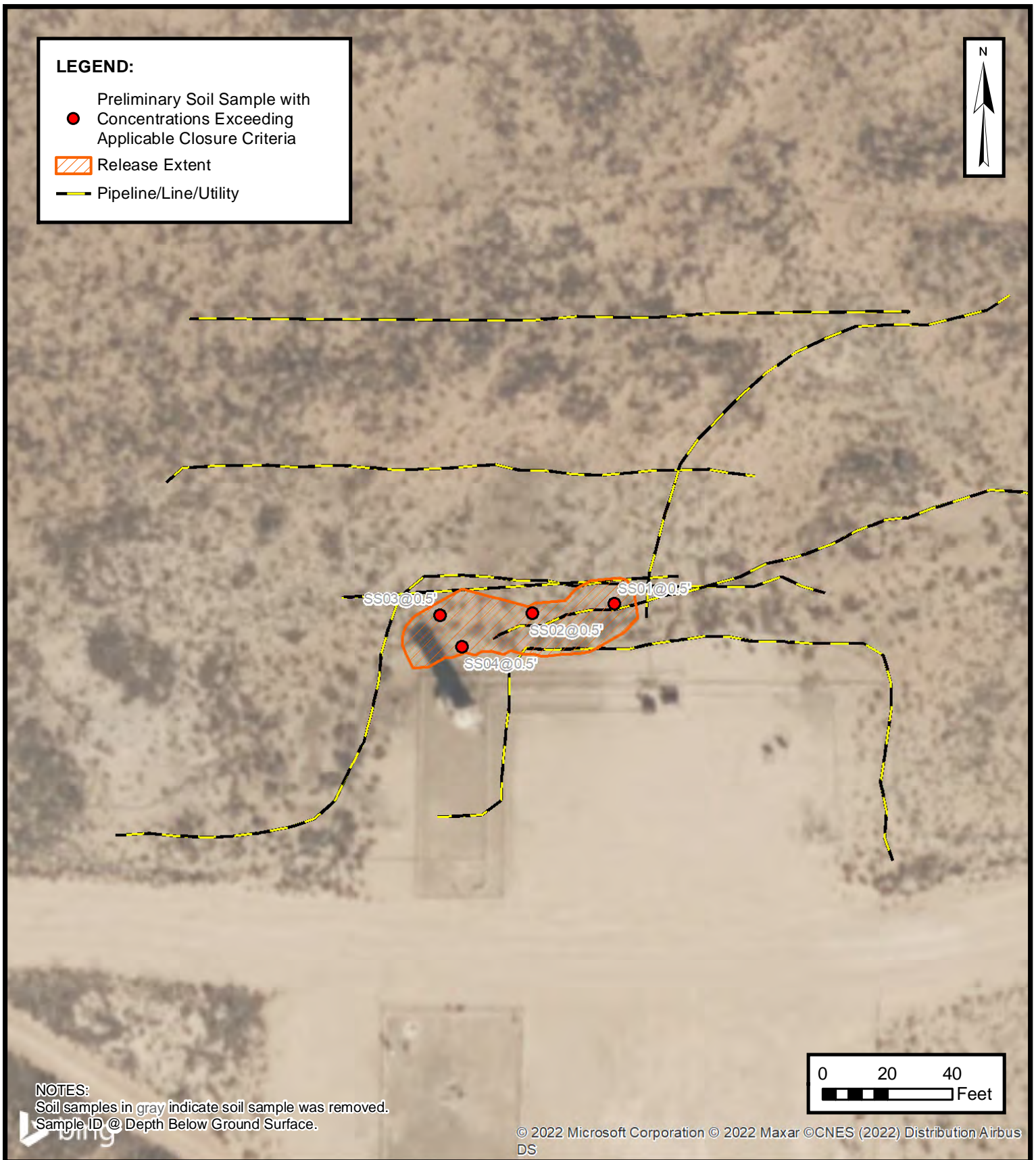
FIGURES

**SITE RECEPTOR MAP**

MAVERICK NATURAL RESOURCES, LLC
 BAISH B BATTERY
 NAPP2211143447
 Unit K, Sec 22, T17S, R32E
 Lea County, New Mexico

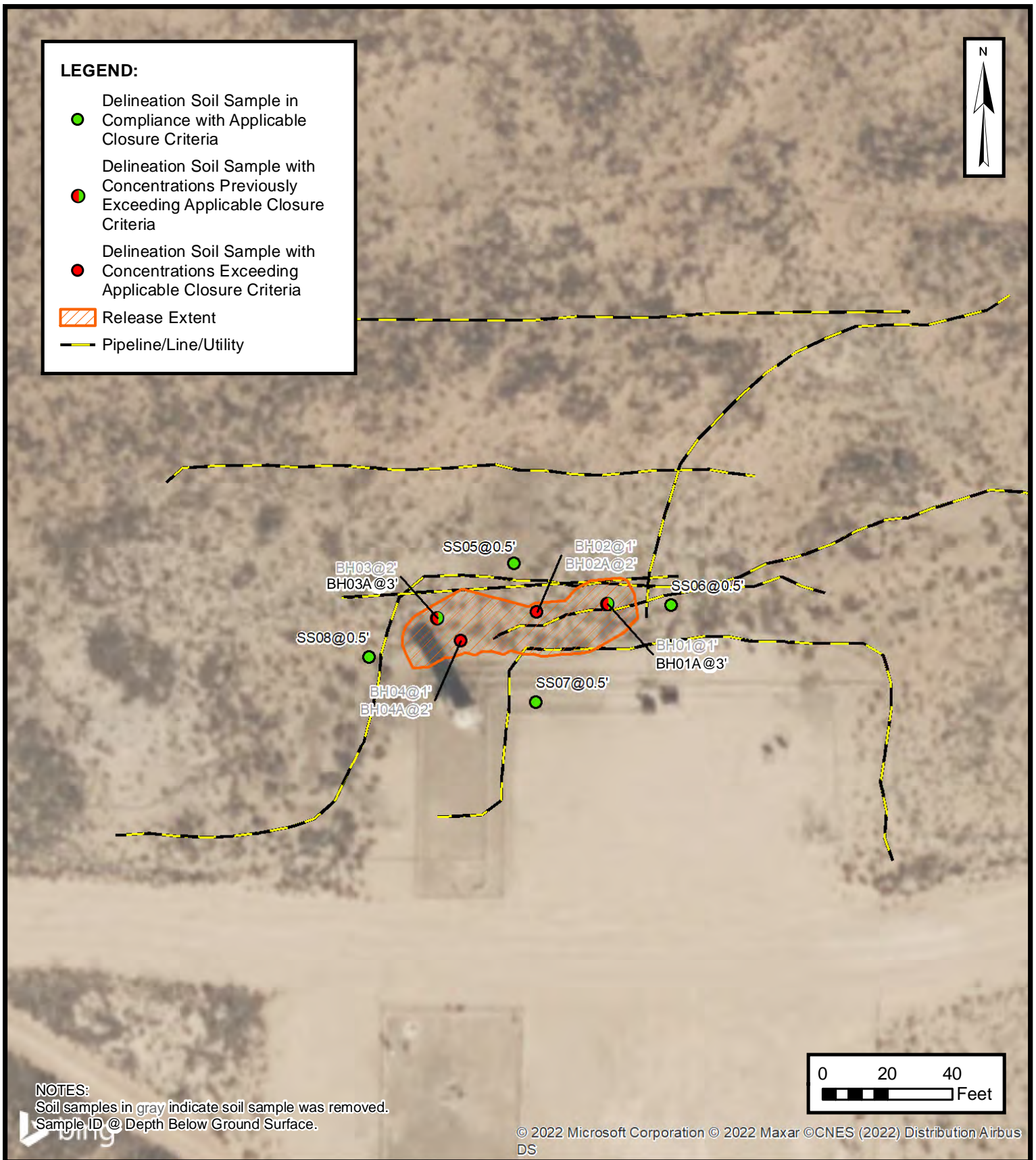
FIGURE**1**

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

**PRELIMINARY SOIL SAMPLE LOCATIONS**

MAVERICK NATURAL RESOURCES, LLC
 BAISH B BATTERY
 NAPP2211143447
 Unit K, Sec 22, T17S, R32E
 Lea County, New Mexico

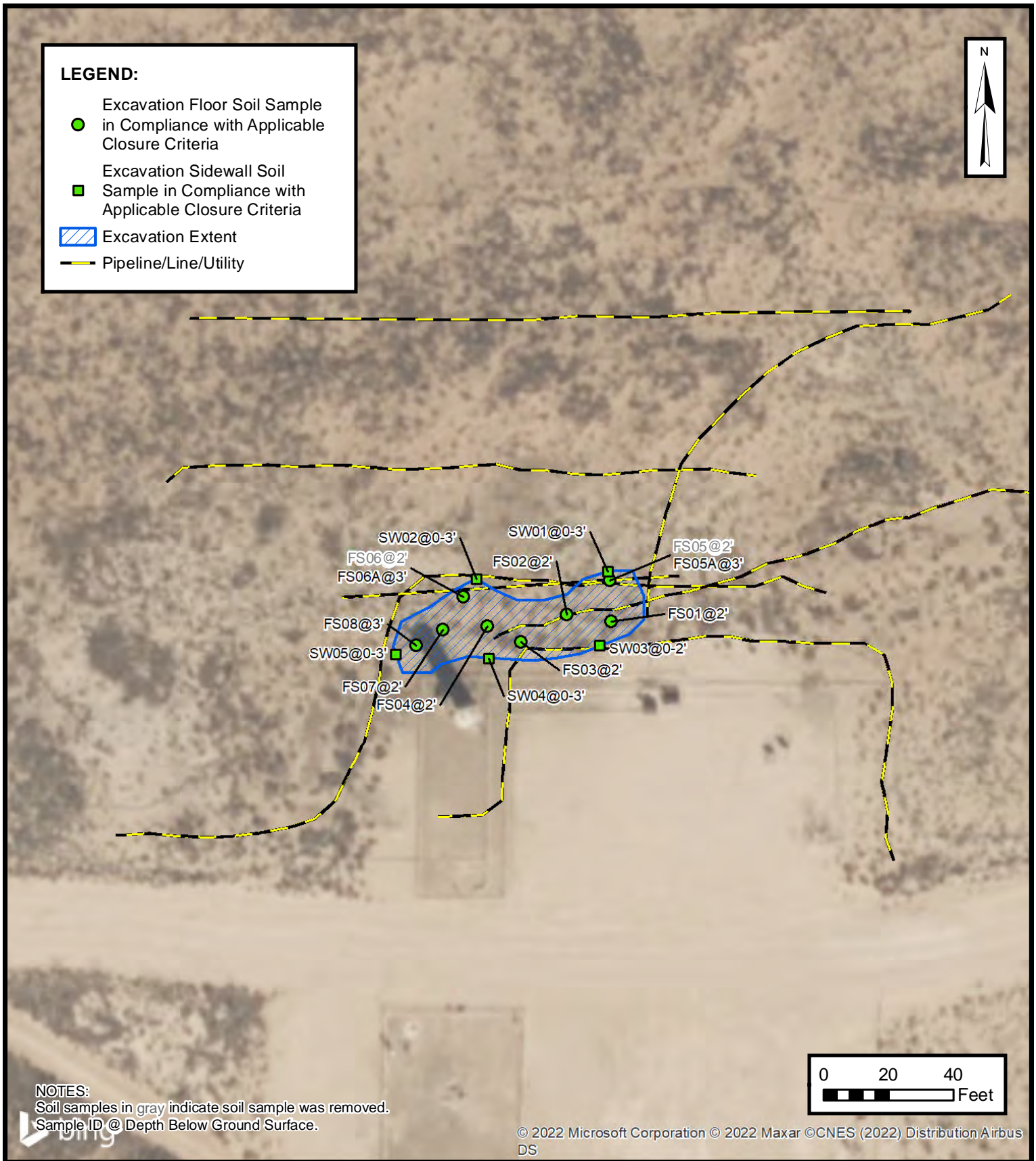
FIGURE**2**



DELINEATION SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
BAISH B BATTERY
NAPP2211143447
Unit K, Sec 22, T17S, R32E
Lea County, New Mexico

FIGURE
3



EXCAVATION SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
BAISH B BATTERY
NAPP2211143447
Unit K, Sec 22, T17S, R32E
Lea County, New Mexico

FIGURE
4



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Baish B Battery
 Maverick Natural Resources, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOC Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Preliminary Assessment Soil Samples										
SS01	06/30/2022	0.5	0.0247	0.0572	449	1,280	718	1,729	2,450	20.0*
SS02	06/30/2022	0.5	0.318	21.0	1,000	8,300	1,240	9,300	10,500	86.9
SS03	06/30/2022	0.5	<0.0996	<0.199	<250	3,590	1,050	<250	4,640	88.3*
SS04	06/30/2022	0.5	<0.00199	<0.00398	<50.0	414	319	<50.0	733	88.4*
Delineation Soil Samples										
BH01	08/12/2022	1	<0.00201	<0.00402	<49.8	115	121	115	236	13.9*
BH01A	08/12/2022	3	<0.00200	<0.00399	<50.0	<50.0	94.2	<50.0	94.2	43.4*
BH02	08/12/2022	1	<0.00199	0.0047	<50.0	124	220	124	344	17.1*
BH02A	08/12/2022	2	<0.00201	<0.00402	<50.0	<50.0	154	<50.0	154	52.2*
BH03	08/12/2022	2	0.0105	14.1	670	3,860	662	4,530	5,190	86.1*
BH03A	08/12/2022	3	<0.00200	<0.00399	<50.0	<50.0	69.2	<50.0	69.2	26.6*
BH04	08/12/2022	1	<0.00199	0.0096	<250	3300	822	3,300	4,120	510*
BH04A	08/12/2022	2	<0.00199	0.0144	140	2040	333	2,180	2,510	186*
SS05	08/23/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	21.1*
SS06	08/23/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	17.2*
SS07	08/23/2022	0.5	<0.00199	<0.00398	<49.8	64.5	12.4	64.5	76.9	14.6
SS08	08/23/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	9.00*
Excavation Floor Soil Samples										
FS01	08/22/2022	2	<0.00201	<0.00402	<49.8	67.3	<49.8	67.3	67.3	13.7*
FS02	08/22/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	15.6*
FS03	08/22/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	20.4*
FS04	08/22/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	25.8*
FS05	08/23/2022	2	<0.00199	<0.00398	<50.0	68.0	110	68.0	178	15.0*
FS05A	09/23/2022	3	<0.00200	0.0829	<50.0	96.4	<50.0	96.4	96.4	20.5*
FS06	08/23/2022	2	<0.00200	<0.00401	<49.9	143	<49.9	143	143	33.0*
FS06A	09/23/2022	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	17.6*
FS07	08/23/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	30.8*
FS08	08/23/2022	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	21.5*
Excavation Sidewall Soil Samples										
SW01	08/22/2022	0-3	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	10.9*
SW02	08/22/2022	0-3	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	16.9*
SW03	08/23/2022	0-2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	14.5*
SW04	09/23/2022	0-3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	15.9
SW05	09/23/2022	0-3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	18.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOC: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated

* indicates sample was collected in area to be reclaimed after remediation complete; reclamation standard for TPH in the top 4 feet is 600 mg/kg



APPENDIX A

Final C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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


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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u></u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>04/21/2022</u>

L48 Spill Volume Estimate Form

NAPP2211143447

*Received by OCD: 10/5/2022 2:24:51 PM**Page 1 of 157*

Release & Number:	Baish B Treater
Asset Area:	Maljamar
Release Discovery Date & Time:	2/8/2022 9:13
Release Type:	Oil
Provide any known details about the event:	Gage Faliure on Heater Treater

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?				See reference table below		
Has it rained at least a half inch in the last 24 hours?				See reference table below		
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	32.0	20.0	0.50	15.16%	4.747	0.720
Rectangle B	28.0	9.0	0.50	15.16%	1.869	0.283
Rectangle C	13.0	15.0	1.00	15.16%	2.893	0.439
Rectangle D	19.0	15.0	0.50	15.16%	2.114	0.320
Rectangle E	28.0	13.0	0.50	15.16%	2.700	0.409
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
<i>Released to Imaging: 10/13/2022 12:38:49 PM</i>					0.000	0.000
Total Volume Release:						2.171

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

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

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

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

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

CONDITIONS

Action 100609

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 100609
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/21/2022

Incident ID	NAPP2211143447
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100</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

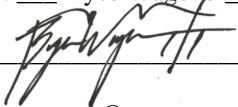
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

Incident ID	NAPP2211143447
District RP	
Facility ID	
Application ID	

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

Printed Name: Bryce Wagoner Title: HSE Specialist
Signature:  Date: 10/05/2022
email: bryce.wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Jocelyn Harimon Date: 10/05/2022

Incident ID	NAPP2211143447
District RP	
Facility ID	
Application ID	

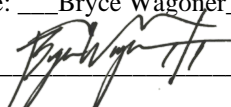
Closure

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

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

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

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

Printed Name: Bryce Wagoner Title: HSE Specialist
Signature:  Date: 10/05/2022
email: bryce.wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Jocelyn Harimon Date: 10/05/2022

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: 10/13/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



APPENDIX B

Referenced Well Records



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 12521 POD1	3	3	4	21	17S	32E	615127	3631271

Driller License:	1456	Driller Company:	WHITE DRILLING COMPANY	
Driller Name:	WHITE, JOHN W			
Drill Start Date:	07/21/2017	Drill Finish Date:	07/26/2017	Plug Date:
Log File Date:	08/22/2017	PCW Rcv Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:
Casing Size:	2.00	Depth Well:	105 feet	Depth Water: 92 feet

Water Bearing Stratifications:	Top	Bottom	Description
	85	101	Sandstone/Gravel/Conglomerate
	101	105	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	75	105

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

7/15/22 8:33 AM

POINT OF DIVERSION SUMMARY

Lea County, New Mexico
Latitude 32°47'33", Longitude 103°39'55" NAD27
Land-surface elevation 4,065.60 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)


[Reselect period](#)


Date	Time	<div>Water-level date-time accuracy</div>	<div>Parameter code</div>	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1976-02-18			D 62610		3945.15	NGVD29	1	Z			A
1976-02-18			D 62611		3946.79	NAVD88	1	Z			A
1976-02-18			D 72019	120.45			1	Z			A
1981-01-28			D 62610		3944.98	NGVD29	1	Z			A
1981-01-28			D 62611		3946.62	NAVD88	1	Z			A
1981-01-28			D 72019	120.62			1	Z			A
1986-03-26			D 62610		3943.84	NGVD29	1	Z			A
1986-03-26			D 62611		3945.48	NAVD88	1	Z			A
1986-03-26			D 72019	121.76			1	Z			A
1990-12-11			D 62610		3944.75	NGVD29	1	Z			A
1990-12-11			D 62611		3946.39	NAVD88	1	Z			A
1990-12-11			D 72019	120.85			1	Z			A





APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 08/12/2022			
								Site Name: Baish B Battery					
								Incident Number: NAPP2211143447					
								Job Number: 03D2057009					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SK		Method: Hand Auger			
Coordinates: 32.82, -103.75								Hole Diameter: 4"		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
						0							
D	<156	71.2	Y			0.5	SP	SAND, brown, poorly graded, fine grain, HC odor, dark staining.					
D	<156	158	Y	BH01	1	1	SP	SAND, brown, very fine to fine grain, HC odor, staining.					
						1.5							
D	<156	18.2	N			2	SP	SAA, no odor or staining.					
						2.5							
D	<156	15.6	N	BH01A	3	3	SP	SAA					
TD @ 3 feet bgs													

								Sample Name: BH02		Date: 08/12/2022					
								Site Name: Baish B Battery							
								Incident Number: NAPP2211143447							
								Job Number: 03D2057009							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SK		Method: Hand Auger					
Coordinates: 32.82, -103.75								Hole Diameter: 4"		Total Depth: 3'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0									
D	<156	81.9	Y	BH02	0.5	0.5	SP	SAND, brown, poorly graded, fine grain, HC odor, dark staining.							
D	<156	68.3	Y			1	SP	SAND, brown, very fine to fine grain, HC odor, staining.							
						1.5									
D	<156	11.8	N			2	SP	SAA, no odor or staining.							
						2.5									
D	<156	7.0	N	BH02A	3	3	SP	SAA							
TD @ 3 feet bgs															

								Sample Name: BH03		Date: 08/12/2022			
								Site Name: Baish B Battery					
								Incident Number: NAPP2211143447					
								Job Number: 03D2057009					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SK		Method: Hand Auger			
Coordinates: 32.82, -103.76								Hole Diameter: 4"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
						0							
D	<156	615.4	Y			0.5	SP	SAND, brown, poorly graded, fine grain, HC odor, dark staining.					
D	<156	1166	Y			1	SP	SAND, brown, very fine to fine grain, HC odor, staining.					
						1.5							
D	<156	1451	Y	BH03	2	2	SP	SAA					
						2.5							
D	<156	689.1	Y	BH03A	3	3	SP	SAA, no staining.					
						3.5							
D	<156	180	N	BH03B	4	4		SAA, no odor.					
TD @ 4 feet bgs													

								Sample Name: BH04		Date: 08/12/2022			
								Site Name: Baish B Battery					
								Incident Number: NAPP2211143447					
								Job Number: 03D2057009					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SK		Method: Hand Auger			
Coordinates: 32.82, -103.76								Hole Diameter: 4"		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
						0							
D	<156	441.8	Y			0.5	SP	SAND, brown, poorly graded, fine grain, HC odor, dark staining.					
D	<156	486.2	Y	BH04	1	1	SP	SAND, brown, very fine to fine grain, HC odor, staining.					
						1.5							
D	<156	20.1	N	BH04A	2	2	SP	SAA, no staining or odor.					
						2.5							
D	<156	16.1	N			3	SP	SAA					
TD @ 3 feet bgs													



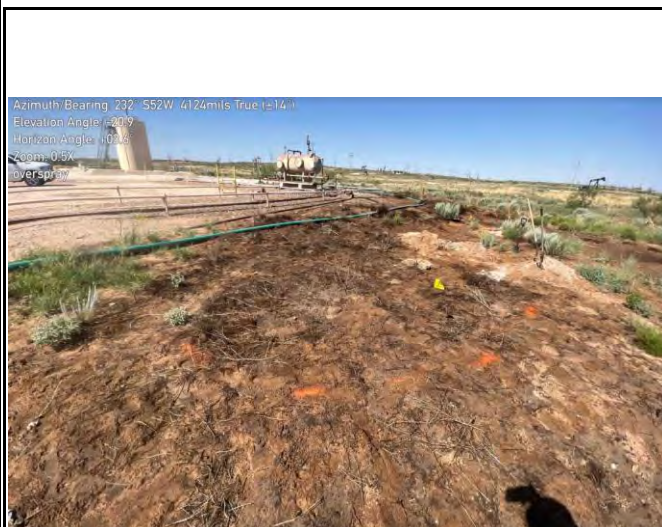
APPENDIX D

Photographic Log



Photographic Log

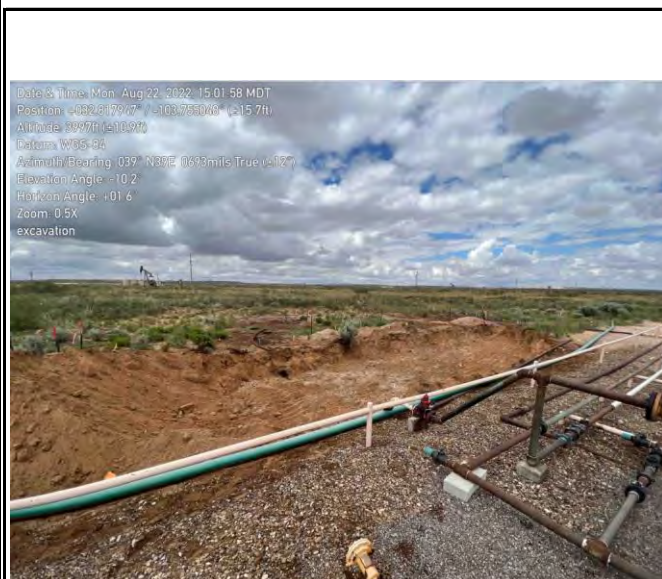
Maverick Natural Resources, LLC
Baish B Battery
Incident Number NAPP2211143447



Photograph 1 Date: 08/12/2022
Description: Photo of release extent taken during delineation activities, facing southwest.



Photograph 2 Date: 08/12/2022
Description: Photo of delineation activities, facing southeast.



Photograph 3 Date: 08/22/2022
Description: Photo of excavation extent, facing southeast.



Photograph 4 Date: 08/22/2022
Description: Photo of excavation extent, facing northwest.



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2492-1

Laboratory Sample Delivery Group: 03d2057009

Client Project/Site: Baish B Battery

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/13/2022 10:18:06 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: Baish B Battery

Laboratory Job ID: 890-2492-1
SDG: 03d2057009

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Definitions/Glossary

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Job ID: 890-2492-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2492-1

Receipt

The samples were received on 7/1/2022 9:03 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 5.4°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-2492-1) and SS04 (890-2492-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-28993 and analytical batch 880-29112 contained Gasoline Range Organics (GRO)-C6-C10 and Total TPH above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Client Sample ID: SS01

Lab Sample ID: 890-2492-1

Date Collected: 06/30/22 10:40

Matrix: Solid

Date Received: 07/01/22 09:03

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0247		0.0201	mg/Kg		07/12/22 08:53	07/12/22 20:14	10
Toluene	0.0325		0.0201	mg/Kg		07/12/22 08:53	07/12/22 20:14	10
Ethylbenzene	<0.0201	U	0.0201	mg/Kg		07/12/22 08:53	07/12/22 20:14	10
m-Xylene & p-Xylene	<0.0402	U	0.0402	mg/Kg		07/12/22 08:53	07/12/22 20:14	10
o-Xylene	<0.0201	U	0.0201	mg/Kg		07/12/22 08:53	07/12/22 20:14	10
Xylenes, Total	<0.0402	U	0.0402	mg/Kg		07/12/22 08:53	07/12/22 20:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130	07/12/22 08:53	07/12/22 20:14	10
1,4-Difluorobenzene (Surr)	128		70 - 130	07/12/22 08:53	07/12/22 20:14	10

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0572		0.0402	mg/Kg			07/13/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2450		249	mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	449		249	mg/Kg		07/05/22 08:59	07/06/22 18:20	5
Diesel Range Organics (Over C10-C28)	1280		249	mg/Kg		07/05/22 08:59	07/06/22 18:20	5
Oil Range Organics (Over C28-C36)	718		249	mg/Kg		07/05/22 08:59	07/06/22 18:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	07/05/22 08:59	07/06/22 18:20	5
o-Terphenyl	95		70 - 130	07/05/22 08:59	07/06/22 18:20	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.0		4.99	mg/Kg			07/08/22 10:52	1

Client Sample ID: SS02

Lab Sample ID: 890-2492-2

Date Collected: 06/30/22 10:50

Matrix: Solid

Date Received: 07/01/22 09:03

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.318		0.0998	mg/Kg		07/12/22 08:53	07/12/22 20:35	50
Toluene	4.51		0.0998	mg/Kg		07/12/22 08:53	07/12/22 20:35	50
Ethylbenzene	3.73		0.0998	mg/Kg		07/12/22 08:53	07/12/22 20:35	50
m-Xylene & p-Xylene	8.07		0.200	mg/Kg		07/12/22 08:53	07/12/22 20:35	50
o-Xylene	4.38		0.0998	mg/Kg		07/12/22 08:53	07/12/22 20:35	50
Xylenes, Total	12.5		0.200	mg/Kg		07/12/22 08:53	07/12/22 20:35	50

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Client Sample ID: SS02

Lab Sample ID: 890-2492-2

Date Collected: 06/30/22 10:50

Matrix: Solid

Date Received: 07/01/22 09:03

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/12/22 08:53	07/12/22 20:35	50
1,4-Difluorobenzene (Surr)	100		70 - 130	07/12/22 08:53	07/12/22 20:35	50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	21.0		0.200	mg/Kg			07/13/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10500		249	mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1000		249	mg/Kg		07/05/22 08:59	07/06/22 18:42	5
Diesel Range Organics (Over C10-C28)	8300		249	mg/Kg		07/05/22 08:59	07/06/22 18:42	5
Oil Range Organics (Over C28-C36)	1240		249	mg/Kg		07/05/22 08:59	07/06/22 18:42	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/05/22 08:59	07/06/22 18:42	5
o-Terphenyl	107		70 - 130			07/05/22 08:59	07/06/22 18:42	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.9		4.97	mg/Kg			07/08/22 11:02	1

Client Sample ID: SS03

Lab Sample ID: 890-2492-3

Date Collected: 06/30/22 11:10

Matrix: Solid

Date Received: 07/01/22 09:03

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996	mg/Kg		07/12/22 08:53	07/12/22 20:55	50
Toluene	<0.0996	U	0.0996	mg/Kg		07/12/22 08:53	07/12/22 20:55	50
Ethylbenzene	<0.0996	U	0.0996	mg/Kg		07/12/22 08:53	07/12/22 20:55	50
m-Xylene & p-Xylene	<0.199	U	0.199	mg/Kg		07/12/22 08:53	07/12/22 20:55	50
o-Xylene	0.127		0.0996	mg/Kg		07/12/22 08:53	07/12/22 20:55	50
Xylenes, Total	<0.199	U	0.199	mg/Kg		07/12/22 08:53	07/12/22 20:55	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			07/12/22 08:53	07/12/22 20:55	50
1,4-Difluorobenzene (Surr)	98		70 - 130			07/12/22 08:53	07/12/22 20:55	50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.199	U	0.199	mg/Kg			07/13/22 10:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Client Sample ID: SS03

Lab Sample ID: 890-2492-3

Date Collected: 06/30/22 11:10

Matrix: Solid

Date Received: 07/01/22 09:03

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4640		250	mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250	mg/Kg		07/05/22 08:59	07/06/22 19:04	5
Diesel Range Organics (Over C10-C28)	3590		250	mg/Kg		07/05/22 08:59	07/06/22 19:04	5
Oil Range Organics (Over C28-C36)	1050		250	mg/Kg		07/05/22 08:59	07/06/22 19:04	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			07/05/22 08:59	07/06/22 19:04	5
o-Terphenyl	88		70 - 130			07/05/22 08:59	07/06/22 19:04	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.3		5.00	mg/Kg			07/08/22 11:29	1

Client Sample ID: SS04

Lab Sample ID: 890-2492-4

Date Collected: 06/30/22 11:20

Matrix: Solid

Date Received: 07/01/22 09:03

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/12/22 08:53	07/12/22 18:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/12/22 08:53	07/12/22 18:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/12/22 08:53	07/12/22 18:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/12/22 08:53	07/12/22 18:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/12/22 08:53	07/12/22 18:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/12/22 08:53	07/12/22 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			07/12/22 08:53	07/12/22 18:51	1
1,4-Difluorobenzene (Surr)	96		70 - 130			07/12/22 08:53	07/12/22 18:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/13/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	733		50.0	mg/Kg			07/07/22 09:01	1

Method: 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		07/05/22 08:59	07/06/22 19:25	1
Diesel Range Organics (Over C10-C28)	414		50.0	mg/Kg		07/05/22 08:59	07/06/22 19:25	1

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Client Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Client Sample ID: SS04

Lab Sample ID: 890-2492-4

Date Collected: 06/30/22 11:20

Matrix: Solid

Date Received: 07/01/22 09:03

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	319		50.0	mg/Kg		07/05/22 08:59	07/06/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			07/05/22 08:59	07/06/22 19:25	1
o-Terphenyl	90		70 - 130			07/05/22 08:59	07/06/22 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.4		4.97	mg/Kg			07/08/22 11:39	1

Surrogate Summary

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

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)
880-16742-A-1-F MS	Matrix Spike	94	107
880-16742-A-1-G MSD	Matrix Spike Duplicate	116	101
890-2492-1	SS01	175 S1+	128
890-2492-2	SS02	115	100
890-2492-3	SS03	113	98
890-2492-4	SS04	123	96
LCS 880-29509/1-A	Lab Control Sample	103	105
LCSD 880-29509/2-A	Lab Control Sample Dup	92	108
MB 880-29509/5-A	Method Blank	100	104
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)
890-2489-A-1-A MS	Matrix Spike	120	110
890-2489-A-1-A MSD	Matrix Spike Duplicate	122	114
890-2492-1	SS01	99	95
890-2492-2	SS02	120	107
890-2492-3	SS03	96	88
890-2492-4	SS04	100	90
LCS 880-28993/2-A	Lab Control Sample	103	100
LCSD 880-28993/3-A	Lab Control Sample Dup	107	102
MB 880-28993/1-A	Method Blank	113	130
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29509/5-A

Matrix: Solid

Analysis Batch: 29514

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29509

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/12/22 08:53	07/12/22 13:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/12/22 08:53	07/12/22 13:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/12/22 08:53	07/12/22 13:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/12/22 08:53	07/12/22 13:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/12/22 08:53	07/12/22 13:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/12/22 08:53	07/12/22 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/12/22 08:53	07/12/22 13:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/12/22 08:53	07/12/22 13:36	1

Lab Sample ID: LCS 880-29509/1-A

Matrix: Solid

Analysis Batch: 29514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1070		mg/Kg		107	70 - 130
Toluene	0.100	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09190		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1795		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09522		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-29509/2-A

Matrix: Solid

Analysis Batch: 29514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1118		mg/Kg		112	70 - 130	4	35
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	3	35
Ethylbenzene	0.100	0.09670		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1880		mg/Kg		94	70 - 130	5	35
o-Xylene	0.100	0.09814		mg/Kg		98	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-16742-A-1-F MS

Matrix: Solid

Analysis Batch: 29514

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.1173		mg/Kg		117	70 - 130
Toluene	<0.00200	U	0.101	0.1097		mg/Kg		109	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

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

Lab Sample ID: 880-16742-A-1-F MS

Matrix: Solid

Analysis Batch: 29514

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.101	0.09845		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1898		mg/Kg		93	70 - 130
o-Xylene	<0.00200	U	0.101	0.09877		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-16742-A-1-G MSD

Matrix: Solid

Analysis Batch: 29514

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.09189		mg/Kg		92	70 - 130	24	35
Toluene	<0.00200	U	0.0998	0.1146		mg/Kg		115	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0998	0.1180		mg/Kg		118	70 - 130	18	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2405		mg/Kg		119	70 - 130	24	35
o-Xylene	<0.00200	U	0.0998	0.1242		mg/Kg		124	70 - 130	23	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-28993/1-A

Matrix: Solid

Analysis Batch: 29112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28993

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/05/22 08:59	07/06/22 10:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/05/22 08:59	07/06/22 10:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/05/22 08:59	07/06/22 10:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	07/05/22 08:59	07/06/22 10:39	1
o-Terphenyl	130		70 - 130	07/05/22 08:59	07/06/22 10:39	1

Lab Sample ID: LCS 880-28993/2-A

Matrix: Solid

Analysis Batch: 29112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	919.7		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1066		mg/Kg		107	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

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

Lab Sample ID: LCS 880-28993/2-A

Matrix: Solid

Analysis Batch: 29112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28993

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-28993/3-A

Matrix: Solid

Analysis Batch: 29112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	955.0		mg/Kg		95	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1048		mg/Kg		105	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-2489-A-1-A MS

Matrix: Solid

Analysis Batch: 29112

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28993

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-2489-A-1-A MSD

Matrix: Solid

Analysis Batch: 29112

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28993

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	114		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28997/1-A

Matrix: Solid

Analysis Batch: 29213

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			07/08/22 07:48	1

Lab Sample ID: LCS 880-28997/2-A

Matrix: Solid

Analysis Batch: 29213

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.8		mg/Kg		98	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-28997/3-A

Matrix: Solid

Analysis Batch: 29213

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	244.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2491-A-4-F MS

Matrix: Solid

Analysis Batch: 29213

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	35.6		253	314.4		mg/Kg		110	90 - 110		

Lab Sample ID: 890-2491-A-4-G MSD

Matrix: Solid

Analysis Batch: 29213

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	35.6		253	304.1		mg/Kg		106	90 - 110	3	20

QC Association Summary

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

GC VOA

Prep Batch: 29509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Total/NA	Solid	5035	
890-2492-2	SS02	Total/NA	Solid	5035	
890-2492-3	SS03	Total/NA	Solid	5035	
890-2492-4	SS04	Total/NA	Solid	5035	
MB 880-29509/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29509/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29509/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16742-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-16742-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Total/NA	Solid	8021B	29509
890-2492-2	SS02	Total/NA	Solid	8021B	29509
890-2492-3	SS03	Total/NA	Solid	8021B	29509
890-2492-4	SS04	Total/NA	Solid	8021B	29509
MB 880-29509/5-A	Method Blank	Total/NA	Solid	8021B	29509
LCS 880-29509/1-A	Lab Control Sample	Total/NA	Solid	8021B	29509
LCSD 880-29509/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29509
880-16742-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	29509
880-16742-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29509

Analysis Batch: 29647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Total/NA	Solid	Total BTEX	
890-2492-2	SS02	Total/NA	Solid	Total BTEX	
890-2492-3	SS03	Total/NA	Solid	Total BTEX	
890-2492-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 28993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Total/NA	Solid	8015NM Prep	
890-2492-2	SS02	Total/NA	Solid	8015NM Prep	
890-2492-3	SS03	Total/NA	Solid	8015NM Prep	
890-2492-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-28993/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28993/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28993/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2489-A-1-A MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2489-A-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Total/NA	Solid	8015B NM	28993
890-2492-2	SS02	Total/NA	Solid	8015B NM	28993
890-2492-3	SS03	Total/NA	Solid	8015B NM	28993
890-2492-4	SS04	Total/NA	Solid	8015B NM	28993
MB 880-28993/1-A	Method Blank	Total/NA	Solid	8015B NM	28993
LCS 880-28993/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28993

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QC Association Summary

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

GC Semi VOA (Continued)

Analysis Batch: 29112 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-28993/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28993
890-2489-A-1-A MS	Matrix Spike	Total/NA	Solid	8015B NM	28993
890-2489-A-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28993

Analysis Batch: 29178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Total/NA	Solid	8015 NM	
890-2492-2	SS02	Total/NA	Solid	8015 NM	
890-2492-3	SS03	Total/NA	Solid	8015 NM	
890-2492-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 28997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Soluble	Solid	DI Leach	
890-2492-2	SS02	Soluble	Solid	DI Leach	
890-2492-3	SS03	Soluble	Solid	DI Leach	
890-2492-4	SS04	Soluble	Solid	DI Leach	
MB 880-28997/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28997/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28997/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2491-A-4-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2491-A-4-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 29213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2492-1	SS01	Soluble	Solid	300.0	28997
890-2492-2	SS02	Soluble	Solid	300.0	28997
890-2492-3	SS03	Soluble	Solid	300.0	28997
890-2492-4	SS04	Soluble	Solid	300.0	28997
MB 880-28997/1-A	Method Blank	Soluble	Solid	300.0	28997
LCS 880-28997/2-A	Lab Control Sample	Soluble	Solid	300.0	28997
LCSD 880-28997/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28997
890-2491-A-4-F MS	Matrix Spike	Soluble	Solid	300.0	28997
890-2491-A-4-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	28997

Lab Chronicle

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Client Sample ID: SS01

Lab Sample ID: 890-2492-1

Date Collected: 06/30/22 10:40

Matrix: Solid

Date Received: 07/01/22 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 g	29509	07/12/22 08:53	MR	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29514	07/12/22 20:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29647	07/13/22 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29178	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28993	07/05/22 08:59	AM	XEN MID
Total/NA	Analysis	8015B NM		5			29112	07/06/22 18:20	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28997	07/05/22 09:12	CH	XEN MID
Soluble	Analysis	300.0		1			29213	07/08/22 10:52	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-2492-2

Date Collected: 06/30/22 10:50

Matrix: Solid

Date Received: 07/01/22 09:03

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 g	29509	07/12/22 08:53	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	29514	07/12/22 20:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29647	07/13/22 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29178	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	28993	07/05/22 08:59	AM	XEN MID
Total/NA	Analysis	8015B NM		5			29112	07/06/22 18:42	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28997	07/05/22 09:12	CH	XEN MID
Soluble	Analysis	300.0		1			29213	07/08/22 11:02	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-2492-3

Date Collected: 06/30/22 11:10

Matrix: Solid

Date Received: 07/01/22 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 g	29509	07/12/22 08:53	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	29514	07/12/22 20:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29647	07/13/22 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29178	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28993	07/05/22 08:59	AM	XEN MID
Total/NA	Analysis	8015B NM		5			29112	07/06/22 19:04	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28997	07/05/22 09:12	CH	XEN MID
Soluble	Analysis	300.0		1			29213	07/08/22 11:29	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-2492-4

Date Collected: 06/30/22 11:20

Matrix: Solid

Date Received: 07/01/22 09:03

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 g	29509	07/12/22 08:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29514	07/12/22 18:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29647	07/13/22 10:56	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Client Sample ID: SS04

Lab Sample ID: 890-2492-4

Date Collected: 06/30/22 11:20

Matrix: Solid

Date Received: 07/01/22 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29178	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28993	07/05/22 08:59	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/06/22 19:25	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28997	07/05/22 09:12	CH	XEN MID
Soluble	Analysis	300.0		1			29213	07/08/22 11:39	CH	XEN MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Baish B Battery

Job ID: 890-2492-1
SDG: 03d2057009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2492-1	SS01	Solid	06/30/22 10:40	07/01/22 09:03	0.5
890-2492-2	SS02	Solid	06/30/22 10:50	07/01/22 09:03	0.5
890-2492-3	SS03	Solid	06/30/22 11:10	07/01/22 09:03	0.5
890-2492-4	SS04	Solid	06/30/22 11:20	07/01/22 09:03	0.5

Chain of Custody

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

Work Order No: _____

Page _____ of _____

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

Project Manager:	<i>Raelei Jennings</i>	Bill to: (if different)
Company Name:	<i>Ensdahan</i>	Company Name:
Address:	<i>3122 National Parks Hwy</i>	Address:
City, State ZIP:	<i>Carlsbad NM 88220</i>	City, State ZIP:
Phone:	<i>617-283-2503</i>	Email:

ANALYSIS REQUEST



Project Name:	Baish B Battery		Turn Around		Pres. Code	
Project Number:	03D2057009		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush		
Project Location:	Cody Canyon		Due Date:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Chris Brown					
PO #:						
SAMPLE RECEIPT			Temp Blank:		Parameters	
Samples Received Intact:	Yes	No	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Thermometer ID: 71NM007	
Cooler Custody Seals:	Yes	No	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Correction Factor: -0.2	
Sample Custody Seals:	Yes	No	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Temperature Reading: 5.6	
Total Containers:					Corrected Temperature: 5.4	

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	Sample Comments
S501	S	6-30-72	10:40	.5	G	1	<div> <div> <div>TL</div> <div>SL</div> <div>C</div> </div> <div> <div>Free ID</div> <div>NAP 2211143447</div> </div> </div>
S502	S	6-30	10:50	.5	G	1	
S503	S	6-30	11:10	.5	G	1	
S504	S	6-30	11:20	.5	G	1	

	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				
TCIP / SPIP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 2451 / 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 service. Eurofins Xenco shall be liable only for the cost of samples submitted, but not analyzed. These terms will be enforced unless previously negotiated in writing. Samples must be accompanied by a completed request for analysis form. A minimum charge of \$95.00 will be applied to each protocol and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated in writing.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			7-1-22 9:03			
3						

Revised Date: 08/25/2020 Rev. 2020

Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:		Kramer Jessica			890-827 1									
Shipping/Receiving	Phone:	Jessica Kramer@eurofins.com	E-Mail	State of Origin:	Page									
Company	Eurofins Environment Testing South Cent	Accreditations Required (See note)	NEIAP - Texas	New Mexico	Page 1 of 1									
Address	1211 W Florida Ave	Due Date Requested	7/8/2022	Job #	890-2492-1									
City	Midland	TTAT Requested (days)		Analysis Requested										
State Zip	TX 79701	PO #		A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other:										
Phone:	432-704-5440(Tel)	WO #		M. Hexane N. None O. AsNaO2 P. Na2O4S Q. Na2SO3 R. Na2SO3 S. H2SO4 T. TSP Dodecylate U. Acetone V. MCAA W. pH 4-5 Y. Trizma Z. other (specify)										
Email		Project #	89000094											
Project Name:	baish b battery	SSOW#												
Site														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (IC=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Wastefl, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
ss01 (890-2492-1)	6/30/22	10 40	Mountain	Solid		X	X	X	X	X	X	X	1	
ss02 (890-2492-2)	6/30/22	10 50	Mountain	Solid		X	X	X	X	X	X	X	1	
ss03 (890-2492-3)	6/30/22	11 10	Mountain	Solid		X	X	X	X	X	X	X	1	
ss04 (890-2492-4)	6/30/22	11 20	Mountain	Solid		X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2														
Empty Kit Relinquished by: Date: Time: Method of Shipment:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Custody Seals Intact: Custody Seal No														
Cooler Temperature(s) °C and Other Remarks														

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2492-1

SDG Number: 03d2057009

Login Number: 2492

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2492-1

SDG Number: 03d2057009

Login Number: 2492

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 07/05/22 09:17 AM

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2750-1

Laboratory Sample Delivery Group: 03D2057016

Client Project/Site: Biash B Battery

Revision: 2

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

9/30/2022 1:48:26 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: Biash B Battery

Laboratory Job ID: 890-2750-1
SDG: 03D2057016

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Definitions/Glossary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

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.
F2	MS/MSD RPD 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
F1	MS and/or MSD recovery exceeds control limits.
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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Job ID: 890-2750-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2750-1**REVISION

The report being provided is a revision of the original report sent on 8/26/2022. The report (revision 2) is being revised due to Per client email, requesting sample depth correction.

Report revision history

The report being provided is a revision of the original report sent on 8/26/2022. The report (revision 2) is being revised due to Per client email, requesting sample depth correction.

Revision 1 - 9/28/2022 - Reason - Per client email, correcting sample depth.

Receipt

The samples were received on 8/12/2022 4:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 12.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32568 and analytical batch 880-32832 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH04 (890-2750-7) and BH04 (890-2750-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-32931 and analytical batch 880-32832 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32206 and analytical batch 880-32197 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance 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 spiking solution was inadvertently omitted during the extraction process for the laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) associated with preparation batch 880-32319; therefore, percent recoveries are unavailable

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: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH01

Lab Sample ID: 890-2750-1

Date Collected: 08/12/22 11:00

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201	mg/Kg		08/20/22 15:24	08/25/22 11:08	1
Toluene	<0.00201	U F1 F2	0.00201	mg/Kg		08/20/22 15:24	08/25/22 11:08	1
Ethylbenzene	<0.00201	U F1 F2	0.00201	mg/Kg		08/20/22 15:24	08/25/22 11:08	1
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.00402	mg/Kg		08/20/22 15:24	08/25/22 11:08	1
o-Xylene	<0.00201	U F1 F2	0.00201	mg/Kg		08/20/22 15:24	08/25/22 11:08	1
Xylenes, Total	<0.00402	U F1 F2	0.00402	mg/Kg		08/20/22 15:24	08/25/22 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/20/22 15:24	08/25/22 11:08	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/20/22 15:24	08/25/22 11:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/25/22 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	236		49.8	mg/Kg			08/17/22 09:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/16/22 09:10	08/16/22 15:01	1
Diesel Range Organics (Over C10-C28)	115		49.8	mg/Kg		08/16/22 09:10	08/16/22 15:01	1
Oil Range Organics (Over C28-C36)	121		49.8	mg/Kg		08/16/22 09:10	08/16/22 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/16/22 09:10	08/16/22 15:01	1
o-Terphenyl	79		70 - 130	08/16/22 09:10	08/16/22 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9	F1	4.97	mg/Kg			08/22/22 10:27	1

Client Sample ID: BH01

Lab Sample ID: 890-2750-2

Date Collected: 08/12/22 11:10

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 3'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 11:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 11:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 11:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/20/22 15:24	08/25/22 11:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 11:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/20/22 15:24	08/25/22 11:29	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH01

Lab Sample ID: 890-2750-2

Date Collected: 08/12/22 11:10

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 3'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/20/22 15:24	08/25/22 11:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/20/22 15:24	08/25/22 11:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/25/22 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.2		50.0	mg/Kg			08/17/22 09:07	1

Method: 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		08/16/22 09:10	08/16/22 15:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/22 09:10	08/16/22 15:23	1
Oil Range Organics (Over C28-C36)	94.2		50.0	mg/Kg		08/16/22 09:10	08/16/22 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/16/22 09:10	08/16/22 15:23	1
o-Terphenyl	100		70 - 130	08/16/22 09:10	08/16/22 15:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.4		4.95	mg/Kg			08/22/22 10:54	1

Client Sample ID: BH02

Lab Sample ID: 890-2750-3

Date Collected: 08/12/22 11:20

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 11:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 11:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 11:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/20/22 15:24	08/25/22 11:49	1
o-Xylene	0.00470		0.00199	mg/Kg		08/20/22 15:24	08/25/22 11:49	1
Xylenes, Total	0.00470		0.00398	mg/Kg		08/20/22 15:24	08/25/22 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/20/22 15:24	08/25/22 11:49	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/20/22 15:24	08/25/22 11:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00470		0.00398	mg/Kg			08/25/22 11:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH02

Lab Sample ID: 890-2750-3

Date Collected: 08/12/22 11:20

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	344		50.0	mg/Kg			08/17/22 09:07	1

Method: 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		08/16/22 09:10	08/16/22 13:34	1
Diesel Range Organics (Over C10-C28)	124		50.0	mg/Kg		08/16/22 09:10	08/16/22 13:34	1
Oil Range Organics (Over C28-C36)	220		50.0	mg/Kg		08/16/22 09:10	08/16/22 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			08/16/22 09:10	08/16/22 13:34	1
o-Terphenyl	90		70 - 130			08/16/22 09:10	08/16/22 13:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		5.05	mg/Kg			08/22/22 11:03	1

Client Sample ID: BH02

Lab Sample ID: 890-2750-4

Date Collected: 08/12/22 11:30

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 2'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/20/22 15:24	08/25/22 12:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/20/22 15:24	08/25/22 12:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/20/22 15:24	08/25/22 12:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/20/22 15:24	08/25/22 12:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/20/22 15:24	08/25/22 12:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/20/22 15:24	08/25/22 12:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			08/20/22 15:24	08/25/22 12:10	1
1,4-Difluorobenzene (Surr)	74		70 - 130			08/20/22 15:24	08/25/22 12:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/25/22 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	154		50.0	mg/Kg			08/17/22 09:07	1

Method: 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		08/16/22 09:10	08/16/22 13:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/22 09:10	08/16/22 13:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH02

Lab Sample ID: 890-2750-4

Date Collected: 08/12/22 11:30

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	154		50.0	mg/Kg		08/16/22 09:10	08/16/22 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			08/16/22 09:10	08/16/22 13:56	1
o-Terphenyl	87		70 - 130			08/16/22 09:10	08/16/22 13:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.2		5.01	mg/Kg			08/22/22 11:13	1

Client Sample ID: BH03

Lab Sample ID: 890-2750-5

Date Collected: 08/12/22 11:40

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 2'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/20/22 15:24	08/25/22 12:30	1
Toluene	0.0105		0.00202	mg/Kg		08/20/22 15:24	08/25/22 12:30	1
Ethylbenzene	0.158		0.00202	mg/Kg		08/20/22 15:24	08/25/22 12:30	1
m-Xylene & p-Xylene	6.66		0.100	mg/Kg		08/25/22 13:50	08/26/22 00:38	25
o-Xylene	7.30	+	0.0501	mg/Kg		08/25/22 13:50	08/26/22 00:38	25
Xylenes, Total	14.0		0.100	mg/Kg		08/25/22 13:50	08/26/22 00:38	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	286	S1+	70 - 130			08/20/22 15:24	08/25/22 12:30	1
4-Bromofluorobenzene (Surr)	442	S1+	70 - 130			08/25/22 13:50	08/26/22 00:38	25
1,4-Difluorobenzene (Surr)	93		70 - 130			08/20/22 15:24	08/25/22 12:30	1
1,4-Difluorobenzene (Surr)	83		70 - 130			08/25/22 13:50	08/26/22 00:38	25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.1		0.100	mg/Kg			08/25/22 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5190		250	mg/Kg			08/17/22 09:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	670		250	mg/Kg		08/16/22 09:10	08/16/22 14:18	5
Diesel Range Organics (Over C10-C28)	3860		250	mg/Kg		08/16/22 09:10	08/16/22 14:18	5
Oil Range Organics (Over C28-C36)	662		250	mg/Kg		08/16/22 09:10	08/16/22 14:18	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			08/16/22 09:10	08/16/22 14:18	5
o-Terphenyl	101		70 - 130			08/16/22 09:10	08/16/22 14:18	5

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH03

Lab Sample ID: 890-2750-5

Date Collected: 08/12/22 11:40

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 2'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.1		4.98	mg/Kg			08/22/22 11:22	1

Client Sample ID: BH03

Lab Sample ID: 890-2750-6

Date Collected: 08/12/22 11:50

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 3'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 12:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 12:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 12:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/20/22 15:24	08/25/22 12:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 12:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/20/22 15:24	08/25/22 12:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			08/20/22 15:24	08/25/22 12:51	1
1,4-Difluorobenzene (Surr)	82		70 - 130			08/20/22 15:24	08/25/22 12:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/25/22 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.2		50.0	mg/Kg			08/17/22 09:07	1

Method: 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		08/16/22 09:10	08/16/22 16:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/22 09:10	08/16/22 16:07	1
Oil Range Organics (Over C28-C36)	69.2		50.0	mg/Kg		08/16/22 09:10	08/16/22 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			08/16/22 09:10	08/16/22 16:07	1
o-Terphenyl	92		70 - 130			08/16/22 09:10	08/16/22 16:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		4.97	mg/Kg			08/22/22 11:50	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH04

Lab Sample ID: 890-2750-7

Date Collected: 08/12/22 12:00

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:11	1
Ethylbenzene	0.00467		0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:11	1
m-Xylene & p-Xylene	0.00493		0.00398	mg/Kg		08/20/22 15:24	08/25/22 13:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:11	1
Xylenes, Total	0.00493		0.00398	mg/Kg		08/20/22 15:24	08/25/22 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	08/20/22 15:24	08/25/22 13:11	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/20/22 15:24	08/25/22 13:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00960		0.00398	mg/Kg			08/25/22 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4120		250	mg/Kg			08/17/22 09:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250	mg/Kg		08/16/22 09:10	08/16/22 14:39	5
Diesel Range Organics (Over C10-C28)	3300		250	mg/Kg		08/16/22 09:10	08/16/22 14:39	5
Oil Range Organics (Over C28-C36)	822		250	mg/Kg		08/16/22 09:10	08/16/22 14:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/16/22 09:10	08/16/22 14:39	5
o-Terphenyl	97		70 - 130	08/16/22 09:10	08/16/22 14:39	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		5.00	mg/Kg			08/22/22 11:59	1

Client Sample ID: BH04

Lab Sample ID: 890-2750-8

Date Collected: 08/12/22 12:10

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 2'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:31	1
m-Xylene & p-Xylene	0.00424		0.00398	mg/Kg		08/20/22 15:24	08/25/22 13:31	1
o-Xylene	0.0102		0.00199	mg/Kg		08/20/22 15:24	08/25/22 13:31	1
Xylenes, Total	0.0144		0.00398	mg/Kg		08/20/22 15:24	08/25/22 13:31	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH04

Lab Sample ID: 890-2750-8

Date Collected: 08/12/22 12:10

Matrix: Solid

Date Received: 08/12/22 16:52

Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	08/20/22 15:24	08/25/22 13:31	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/20/22 15:24	08/25/22 13:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0144		0.00398	mg/Kg			08/25/22 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2510		49.9	mg/Kg			08/17/22 09:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	140		49.9	mg/Kg		08/16/22 09:10	08/16/22 13:13	1
Diesel Range Organics (Over C10-C28)	2040		49.9	mg/Kg		08/16/22 09:10	08/16/22 13:13	1
Oil Range Organics (Over C28-C36)	333		49.9	mg/Kg		08/16/22 09:10	08/16/22 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/16/22 09:10	08/16/22 13:13	1
o-Terphenyl	101		70 - 130	08/16/22 09:10	08/16/22 13:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		5.02	mg/Kg			08/22/22 12:08	1

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Surrogate Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-2750-1	BH01	92	95
890-2750-1 MS	BH01	119	99
890-2750-1 MSD	BH01	88	90
890-2750-2	BH01	107	92
890-2750-3	BH02	115	89
890-2750-4	BH02	104	74
890-2750-5	BH03	286 S1+	93
890-2750-5	BH03	442 S1+	83
890-2750-6	BH03	110	82
890-2750-7	BH04	146 S1+	87
890-2750-8	BH04	146 S1+	88
LCS 880-32568/1-A	Lab Control Sample	114	118
LCS 880-32931/1-A	Lab Control Sample	143 S1+	104
LCSD 880-32568/2-A	Lab Control Sample Dup	130	103
LCSD 880-32931/2-A	Lab Control Sample Dup	124	103
MB 880-32568/5-A	Method Blank	101	90
MB 880-32931/5-A	Method Blank	100	90
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	OTPH1
		(70-130)	(70-130)
880-18073-A-5-B MS	Matrix Spike	76	71
880-18073-A-5-C MSD	Matrix Spike Duplicate	76	71
890-2750-1	BH01	79	79
890-2750-2	BH01	96	100
890-2750-3	BH02	88	90
890-2750-4	BH02	86	87
890-2750-5	BH03	108	101
890-2750-6	BH03	89	92
890-2750-7	BH04	88	97
890-2750-8	BH04	95	101
LCS 880-32206/2-A	Lab Control Sample	105	108
LCSD 880-32206/3-A	Lab Control Sample Dup	97	99
MB 880-32206/1-A	Method Blank	77	81
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32568/5-A

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32568

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 10:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 10:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 10:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/20/22 15:24	08/25/22 10:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 10:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/22 15:24	08/25/22 10:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/20/22 15:24	08/25/22 10:47	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/20/22 15:24	08/25/22 10:47	1

Lab Sample ID: LCS 880-32568/1-A

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08421		mg/Kg		84	70 - 130
Toluene	0.100	0.08069		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08760		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1782		mg/Kg		89	70 - 130
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: LCSD 880-32568/2-A

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32568

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09160		mg/Kg		92	70 - 130	8	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	12	35
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2090		mg/Kg		105	70 - 130	16	35
o-Xylene	0.100	0.1219		mg/Kg		122	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2750-1 MS

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 32568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.0998	0.05443	F1	mg/Kg		55	70 - 130
Toluene	<0.00201	U F1 F2	0.0998	0.05913	F1	mg/Kg		59	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

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

Lab Sample ID: 890-2750-1 MS

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 32568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.06688	F1	mg/Kg		67	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1288	F1	mg/Kg		65	70 - 130
o-Xylene	<0.00201	U F1 F2	0.0998	0.07445		mg/Kg		75	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2750-1 MSD

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 32568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.0994	0.01901	F1 F2	mg/Kg		19	70 - 130	96	35
Toluene	<0.00201	U F1 F2	0.0994	0.02694	F1 F2	mg/Kg		27	70 - 130	75	35
Ethylbenzene	<0.00201	U F1 F2	0.0994	0.02636	F1 F2	mg/Kg		27	70 - 130	87	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.199	0.04893	F1 F2	mg/Kg		25	70 - 130	90	35
o-Xylene	<0.00201	U F1 F2	0.0994	0.03111	F1 F2	mg/Kg		31	70 - 130	82	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-32931/5-A

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32931

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/22 10:30	08/25/22 21:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/22 10:30	08/25/22 21:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/22 10:30	08/25/22 21:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/25/22 10:30	08/25/22 21:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/25/22 10:30	08/25/22 21:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/25/22 10:30	08/25/22 21:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/25/22 10:30	08/25/22 21:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/25/22 10:30	08/25/22 21:13	1

Lab Sample ID: LCS 880-32931/1-A

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09705		mg/Kg		97	70 - 130
Toluene	0.100	0.09974		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1147		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2467		mg/Kg		123	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

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

Lab Sample ID: LCS 880-32931/1-A

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1435	*+	mg/Kg		144	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-32931/2-A

Matrix: Solid

Analysis Batch: 32832

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32931

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08940		mg/Kg		89	70 - 130	8	35
Toluene	0.100	0.08823		mg/Kg		88	70 - 130	12	35
Ethylbenzene	0.100	0.09537		mg/Kg		95	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.2029		mg/Kg		101	70 - 130	19	35
o-Xylene	0.100	0.1172		mg/Kg		117	70 - 130	20	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-32206/1-A

Matrix: Solid

Analysis Batch: 32197

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32206

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/16/22 09:10	08/16/22 10:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/22 09:10	08/16/22 10:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/22 09:10	08/16/22 10:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/16/22 09:10	08/16/22 10:20	1
o-Terphenyl	81		70 - 130	08/16/22 09:10	08/16/22 10:20	1

Lab Sample ID: LCS 880-32206/2-A

Matrix: Solid

Analysis Batch: 32197

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	923.3		mg/Kg		92	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

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

Lab Sample ID: LCS 880-32206/2-A

Matrix: Solid

Analysis Batch: 32197

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32206

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-32206/3-A

Matrix: Solid

Analysis Batch: 32197

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32206

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	908.1		mg/Kg		91	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	858.8		mg/Kg		86	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-18073-A-5-B MS

Matrix: Solid

Analysis Batch: 32197

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 32206

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	755.4		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	640.0	F1	mg/Kg		64	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 880-18073-A-5-C MSD

Matrix: Solid

Analysis Batch: 32197

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32206

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	<49.9	U	998	776.0		mg/Kg		78	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	635.8	F1	mg/Kg		64	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	71		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32319/1-A

Matrix: Solid

Analysis Batch: 32664

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			08/22/22 08:37	1

Lab Sample ID: LCS 880-32319/2-A

Matrix: Solid

Analysis Batch: 32664

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	227.8		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-32319/3-A

Matrix: Solid

Analysis Batch: 32664

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	230.4		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 890-2750-1 MS

Matrix: Solid

Analysis Batch: 32664

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13.9	F1	249	7.034	F1	mg/Kg		-3	90 - 110

Lab Sample ID: 890-2750-1 MSD

Matrix: Solid

Analysis Batch: 32664

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13.9	F1	249	7.263	F1	mg/Kg		-3	90 - 110	3	20

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QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

GC VOA

Prep Batch: 32568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Total/NA	Solid	5035	
890-2750-2	BH01	Total/NA	Solid	5035	
890-2750-3	BH02	Total/NA	Solid	5035	
890-2750-4	BH02	Total/NA	Solid	5035	
890-2750-5	BH03	Total/NA	Solid	5035	
890-2750-6	BH03	Total/NA	Solid	5035	
890-2750-7	BH04	Total/NA	Solid	5035	
890-2750-8	BH04	Total/NA	Solid	5035	
MB 880-32568/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32568/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32568/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2750-1 MS	BH01	Total/NA	Solid	5035	
890-2750-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 32832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Total/NA	Solid	8021B	32568
890-2750-2	BH01	Total/NA	Solid	8021B	32568
890-2750-3	BH02	Total/NA	Solid	8021B	32568
890-2750-4	BH02	Total/NA	Solid	8021B	32568
890-2750-5	BH03	Total/NA	Solid	8021B	32568
890-2750-5	BH03	Total/NA	Solid	8021B	32931
890-2750-6	BH03	Total/NA	Solid	8021B	32568
890-2750-7	BH04	Total/NA	Solid	8021B	32568
890-2750-8	BH04	Total/NA	Solid	8021B	32568
MB 880-32568/5-A	Method Blank	Total/NA	Solid	8021B	32568
MB 880-32931/5-A	Method Blank	Total/NA	Solid	8021B	32931
LCS 880-32568/1-A	Lab Control Sample	Total/NA	Solid	8021B	32568
LCS 880-32931/1-A	Lab Control Sample	Total/NA	Solid	8021B	32931
LCSD 880-32568/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32568
LCSD 880-32931/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32931
890-2750-1 MS	BH01	Total/NA	Solid	8021B	32568
890-2750-1 MSD	BH01	Total/NA	Solid	8021B	32568

Prep Batch: 32931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-5	BH03	Total/NA	Solid	5035	
MB 880-32931/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32931/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32931/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 32940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Total/NA	Solid	Total BTEX	
890-2750-2	BH01	Total/NA	Solid	Total BTEX	
890-2750-3	BH02	Total/NA	Solid	Total BTEX	
890-2750-4	BH02	Total/NA	Solid	Total BTEX	
890-2750-5	BH03	Total/NA	Solid	Total BTEX	
890-2750-6	BH03	Total/NA	Solid	Total BTEX	
890-2750-7	BH04	Total/NA	Solid	Total BTEX	
890-2750-8	BH04	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

GC Semi VOA

Analysis Batch: 32197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Total/NA	Solid	8015B NM	32206
890-2750-2	BH01	Total/NA	Solid	8015B NM	32206
890-2750-3	BH02	Total/NA	Solid	8015B NM	32206
890-2750-4	BH02	Total/NA	Solid	8015B NM	32206
890-2750-5	BH03	Total/NA	Solid	8015B NM	32206
890-2750-6	BH03	Total/NA	Solid	8015B NM	32206
890-2750-7	BH04	Total/NA	Solid	8015B NM	32206
890-2750-8	BH04	Total/NA	Solid	8015B NM	32206
MB 880-32206/1-A	Method Blank	Total/NA	Solid	8015B NM	32206
LCS 880-32206/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32206
LCSD 880-32206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32206
880-18073-A-5-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32206
880-18073-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32206

Prep Batch: 32206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Total/NA	Solid	8015NM Prep	
890-2750-2	BH01	Total/NA	Solid	8015NM Prep	
890-2750-3	BH02	Total/NA	Solid	8015NM Prep	
890-2750-4	BH02	Total/NA	Solid	8015NM Prep	
890-2750-5	BH03	Total/NA	Solid	8015NM Prep	
890-2750-6	BH03	Total/NA	Solid	8015NM Prep	
890-2750-7	BH04	Total/NA	Solid	8015NM Prep	
890-2750-8	BH04	Total/NA	Solid	8015NM Prep	
MB 880-32206/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32206/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18073-A-5-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18073-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Total/NA	Solid	8015 NM	
890-2750-2	BH01	Total/NA	Solid	8015 NM	
890-2750-3	BH02	Total/NA	Solid	8015 NM	
890-2750-4	BH02	Total/NA	Solid	8015 NM	
890-2750-5	BH03	Total/NA	Solid	8015 NM	
890-2750-6	BH03	Total/NA	Solid	8015 NM	
890-2750-7	BH04	Total/NA	Solid	8015 NM	
890-2750-8	BH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Soluble	Solid	DI Leach	
890-2750-2	BH01	Soluble	Solid	DI Leach	
890-2750-3	BH02	Soluble	Solid	DI Leach	
890-2750-4	BH02	Soluble	Solid	DI Leach	
890-2750-5	BH03	Soluble	Solid	DI Leach	
890-2750-6	BH03	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

HPLC/IC (Continued)

Leach Batch: 32319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-7	BH04	Soluble	Solid	DI Leach	
890-2750-8	BH04	Soluble	Solid	DI Leach	
MB 880-32319/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32319/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32319/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2750-1 MS	BH01	Soluble	Solid	DI Leach	
890-2750-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 32664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2750-1	BH01	Soluble	Solid	300.0	32319
890-2750-2	BH01	Soluble	Solid	300.0	32319
890-2750-3	BH02	Soluble	Solid	300.0	32319
890-2750-4	BH02	Soluble	Solid	300.0	32319
890-2750-5	BH03	Soluble	Solid	300.0	32319
890-2750-6	BH03	Soluble	Solid	300.0	32319
890-2750-7	BH04	Soluble	Solid	300.0	32319
890-2750-8	BH04	Soluble	Solid	300.0	32319
MB 880-32319/1-A	Method Blank	Soluble	Solid	300.0	32319
LCS 880-32319/2-A	Lab Control Sample	Soluble	Solid	300.0	32319
LCSD 880-32319/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32319
890-2750-1 MS	BH01	Soluble	Solid	300.0	32319
890-2750-1 MSD	BH01	Soluble	Solid	300.0	32319

Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH01

Lab Sample ID: 890-2750-1

Date Collected: 08/12/22 11:00

Matrix: Solid

Date Received: 08/12/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 11:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 15:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 10:27	CH	EET MID

Client Sample ID: BH01

Lab Sample ID: 890-2750-2

Date Collected: 08/12/22 11:10

Matrix: Solid

Date Received: 08/12/22 16:52

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	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 11:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 15:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 10:54	CH	EET MID

Client Sample ID: BH02

Lab Sample ID: 890-2750-3

Date Collected: 08/12/22 11:20

Matrix: Solid

Date Received: 08/12/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 13:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 11:03	CH	EET MID

Client Sample ID: BH02

Lab Sample ID: 890-2750-4

Date Collected: 08/12/22 11:30

Matrix: Solid

Date Received: 08/12/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 12:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH02

Lab Sample ID: 890-2750-4

Date Collected: 08/12/22 11:30

Matrix: Solid

Date Received: 08/12/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 13:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 11:13	CH	EET MID

Client Sample ID: BH03

Lab Sample ID: 890-2750-5

Date Collected: 08/12/22 11:40

Matrix: Solid

Date Received: 08/12/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 12:30	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	32931	08/25/22 13:50	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	32832	08/26/22 00:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		5			32197	08/16/22 14:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 11:22	CH	EET MID

Client Sample ID: BH03

Lab Sample ID: 890-2750-6

Date Collected: 08/12/22 11:50

Matrix: Solid

Date Received: 08/12/22 16:52

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	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 16:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 11:50	CH	EET MID

Client Sample ID: BH04

Lab Sample ID: 890-2750-7

Date Collected: 08/12/22 12:00

Matrix: Solid

Date Received: 08/12/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Client Sample ID: BH04

Lab Sample ID: 890-2750-7

Date Collected: 08/12/22 12:00

Matrix: Solid

Date Received: 08/12/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		5			32197	08/16/22 14:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 11:59	CH	EET MID

Client Sample ID: BH04

Lab Sample ID: 890-2750-8

Date Collected: 08/12/22 12:10

Matrix: Solid

Date Received: 08/12/22 16:52

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	32568	08/20/22 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			32940	08/25/22 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			32314	08/17/22 09:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 13:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32319	08/17/22 09:18	CH	EET MID
Soluble	Analysis	300.0		1			32664	08/22/22 12:08	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: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2750-1
SDG: 03D2057016

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2750-1	BH01	Solid	08/12/22 11:00	08/12/22 16:52	1'
890-2750-2	BH01	Solid	08/12/22 11:10	08/12/22 16:52	3'
890-2750-3	BH02	Solid	08/12/22 11:20	08/12/22 16:52	1
890-2750-4	BH02	Solid	08/12/22 11:30	08/12/22 16:52	2'
890-2750-5	BH03	Solid	08/12/22 11:40	08/12/22 16:52	2'
890-2750-6	BH03	Solid	08/12/22 11:50	08/12/22 16:52	3'
890-2750-7	BH04	Solid	08/12/22 12:00	08/12/22 16:52	1'
890-2750-8	BH04	Solid	08/12/22 12:10	08/12/22 16:52	2'



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: _____

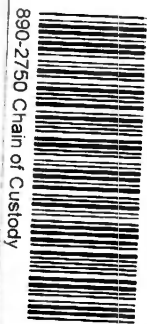
www.xenco.com Page ____ of ____

Project Manager:	Katei Jennings	Bill to: (if different)	Katei Jennings
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks HWY	Address:	3122 National Parks HWY
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com, jadams@ensolum.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:	Blash B Battery	<input checked="" type="checkbox"/> Turn Around	Pres. Code	
Project Number:	03D2057016	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		
Project Location:	Lea County, NM	Due Date:	5 Day TAT	
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm		
CC #:				
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Samples Received Inact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID:	1111-051	
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor:	-0.0	
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temperature Reading:	12.2	
Total Containers:		Corrected Temperature:	12.2	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST										Preservative Codes	Sample Comments
BH01	S	8.12.22	11:00	1'	Grab/	1	X	X	X									None: NO	DI Water: H ₂ O		
BH01	S	8.12.22	11:10	3'	Grab/	1	X	X	X									Cool: Cool	MeOH: Me		
BH02	S	8.12.22	11:20	0.5'	Grab/	1	X	X	X									HCL: HC	HNO ₃ : HN		
BH02	S	8.12.22	11:30	3'	Grab/	1	X	X	X									H ₂ SO ₄ : H ₂	NaOH: Na		
BH03	S	8.12.22	11:40	2'	Grab/	1	X	X	X									H ₃ PO ₄ : HP			
BH03	S	8.12.22	11:50	3'	Grab/	1	X	X	X									NaHSO ₄ : NABIS			
BH04	S	8.12.22	12:00	1'	Grab/	1	X	X	X									Na ₂ S ₂ O ₃ : NaSO ₃			
BH04	S	8.12.22	12:10	3'	Grab/	1	X	X	X									Zn Acetate+NaOH: Zn			
																		NaOH+Ascorbic Acid: SAPC			



890-2750 Chain of Custody

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	V	Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA		Sb As Ba Be Cd Cr Co Cu Fe 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
		8.12.22 (1632)			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2750-1

SDG Number: 03D2057016

Login Number: 2750

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2750-1

SDG Number: 03D2057016

Login Number: 2750**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 08/16/22 10:42 AM**

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2816-1

Laboratory Sample Delivery Group: 03D2057016

Client Project/Site: Biash B Battery

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

Authorized for release by:

9/6/2022 8:38:21 AM

Jessica Kramer, Project Manager
(432)704-5440

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: Biash B Battery

Laboratory Job ID: 890-2816-1
SDG: 03D2057016

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Definitions/Glossary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
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, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Job ID: 890-2816-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2816-1

Receipt

The samples were received on 8/23/2022 4:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS07 (890-2816-7). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS04 (890-2816-4). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS01

Lab Sample ID: 890-2816-1

Date Collected: 08/22/22 11:00

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/01/22 09:48	09/04/22 10:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/01/22 09:48	09/04/22 10:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/01/22 09:48	09/04/22 10:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/01/22 09:48	09/04/22 10:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/01/22 09:48	09/04/22 10:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/01/22 09:48	09/04/22 10:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	09/01/22 09:48	09/04/22 10:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/01/22 09:48	09/04/22 10:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/04/22 20:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.3		49.8	mg/Kg			08/29/22 10:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/25/22 16:27	08/27/22 05:22	1
Diesel Range Organics (Over C10-C28)	67.3		49.8	mg/Kg		08/25/22 16:27	08/27/22 05:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/25/22 16:27	08/27/22 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/25/22 16:27	08/27/22 05:22	1
o-Terphenyl	74		70 - 130	08/25/22 16:27	08/27/22 05:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.7		4.98	mg/Kg			08/30/22 21:36	1

Client Sample ID: FS02

Lab Sample ID: 890-2816-2

Date Collected: 08/22/22 11:10

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/01/22 09:48	09/04/22 11:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/01/22 09:48	09/04/22 11:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/01/22 09:48	09/04/22 11:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/01/22 09:48	09/04/22 11:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/01/22 09:48	09/04/22 11:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/01/22 09:48	09/04/22 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	09/01/22 09:48	09/04/22 11:19	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS02

Lab Sample ID: 890-2816-2

Date Collected: 08/22/22 11:10

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	09/01/22 09:48	09/04/22 11:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

Method: 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		08/25/22 16:27	08/27/22 05:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/25/22 16:27	08/27/22 05:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/25/22 16:27	08/27/22 05:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			08/25/22 16:27	08/27/22 05:00	1
o-Terphenyl	97		70 - 130			08/25/22 16:27	08/27/22 05:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		5.00	mg/Kg			08/30/22 21:43	1

Client Sample ID: FS03

Lab Sample ID: 890-2816-3

Date Collected: 08/22/22 11:20

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 11:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/01/22 09:48	09/04/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 11:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/01/22 09:48	09/04/22 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	09/01/22 09:48	09/04/22 11:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/22 09:48	09/04/22 11:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS03

Lab Sample ID: 890-2816-3

Date Collected: 08/22/22 11:20

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 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		08/25/22 16:27	08/27/22 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/25/22 16:27	08/27/22 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/25/22 16:27	08/27/22 03:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			08/25/22 16:27	08/27/22 03:33	1
o-Terphenyl	89		70 - 130			08/25/22 16:27	08/27/22 03:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		5.01	mg/Kg			08/30/22 22:04	1

Client Sample ID: FS04

Lab Sample ID: 890-2816-4

Date Collected: 08/22/22 11:30

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/01/22 09:48	09/04/22 12:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/01/22 09:48	09/04/22 12:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/01/22 09:48	09/04/22 12:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/01/22 09:48	09/04/22 12:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/01/22 09:48	09/04/22 12:00	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/01/22 09:48	09/04/22 12:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			09/01/22 09:48	09/04/22 12:00	1
1,4-Difluorobenzene (Surr)	110		70 - 130			09/01/22 09:48	09/04/22 12:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

Method: 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		08/25/22 16:27	08/27/22 05:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/25/22 16:27	08/27/22 05:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/25/22 16:27	08/27/22 05:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			08/25/22 16:27	08/27/22 05:43	1
o-Terphenyl	69	S1-	70 - 130			08/25/22 16:27	08/27/22 05:43	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS04

Lab Sample ID: 890-2816-4

Date Collected: 08/22/22 11:30

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.8		5.02	mg/Kg			08/30/22 22:11	1

Client Sample ID: FS05

Lab Sample ID: 890-2816-5

Date Collected: 08/23/22 09:30

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 21:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 21:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 21:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 21:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 21:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/02/22 15:33	09/05/22 21:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/02/22 15:33	09/05/22 21:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/22 20:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	178		50.0	mg/Kg			08/29/22 10:06	1

Method: 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		08/26/22 15:42	08/29/22 00:32	1
Diesel Range Organics (Over C10-C28)	68.0		50.0	mg/Kg		08/26/22 15:42	08/29/22 00:32	1
Oil Range Organics (Over C28-C36)	110		50.0	mg/Kg		08/26/22 15:42	08/29/22 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/26/22 15:42	08/29/22 00:32	1
o-Terphenyl	90		70 - 130			08/26/22 15:42	08/29/22 00:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		4.95	mg/Kg			08/30/22 22:31	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS06

Lab Sample ID: 890-2816-6

Date Collected: 08/23/22 09:35

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/02/22 15:33	09/05/22 22:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:13	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/02/22 15:33	09/05/22 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/02/22 15:33	09/05/22 22:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/02/22 15:33	09/05/22 22:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/04/22 20:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	143		49.9	mg/Kg			08/29/22 10:06	1

Method: 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		08/26/22 14:19	08/28/22 23:55	1
Diesel Range Organics (Over C10-C28)	143		49.9	mg/Kg		08/26/22 14:19	08/28/22 23:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/26/22 14:19	08/28/22 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	08/26/22 14:19	08/28/22 23:55	1
o-Terphenyl	116		70 - 130	08/26/22 14:19	08/28/22 23:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		4.97	mg/Kg			08/30/22 22:38	1

Client Sample ID: FS07

Lab Sample ID: 890-2816-7

Date Collected: 08/23/22 09:40

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 22:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 22:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/02/22 15:33	09/05/22 22:34	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS07

Lab Sample ID: 890-2816-7

Date Collected: 08/23/22 09:40

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	09/02/22 15:33	09/05/22 22:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

Method: 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		08/26/22 14:19	08/29/22 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/26/22 14:19	08/29/22 00:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 14:19	08/29/22 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			08/26/22 14:19	08/29/22 00:16	1
o-Terphenyl	131	S1+	70 - 130			08/26/22 14:19	08/29/22 00:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.8		4.98	mg/Kg			08/30/22 22:45	1

Client Sample ID: FS08

Lab Sample ID: 890-2816-8

Date Collected: 08/23/22 09:45

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 22:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 22:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 22:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 22:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 22:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/02/22 15:33	09/05/22 22:54	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/02/22 15:33	09/05/22 22:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/22 20:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/29/22 10:06	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS08

Lab Sample ID: 890-2816-8

Date Collected: 08/23/22 09:45

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/26/22 14:19	08/29/22 00:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/26/22 14:19	08/29/22 00:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/26/22 14:19	08/29/22 00:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			08/26/22 14:19	08/29/22 00:37	1
o-Terphenyl	109		70 - 130			08/26/22 14:19	08/29/22 00:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		5.00	mg/Kg			08/30/22 22:52	1

Client Sample ID: SW01

Lab Sample ID: 890-2816-9

Date Collected: 08/22/22 11:40

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/01/22 09:48	09/04/22 12:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/01/22 09:48	09/04/22 12:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/01/22 09:48	09/04/22 12:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/01/22 09:48	09/04/22 12:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/01/22 09:48	09/04/22 12:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/01/22 09:48	09/04/22 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			09/01/22 09:48	09/04/22 12:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/01/22 09:48	09/04/22 12:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

Method: 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		08/25/22 16:27	08/27/22 04:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/25/22 16:27	08/27/22 04:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/25/22 16:27	08/27/22 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			08/25/22 16:27	08/27/22 04:17	1
o-Terphenyl	79		70 - 130			08/25/22 16:27	08/27/22 04:17	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: SW01

Lab Sample ID: 890-2816-9

Date Collected: 08/22/22 11:40

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0 - 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		4.95	mg/Kg			08/30/22 22:59	1

Client Sample ID: SW02

Lab Sample ID: 890-2816-10

Date Collected: 08/22/22 11:50

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 12:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 12:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 12:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/01/22 09:48	09/04/22 12:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 12:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/01/22 09:48	09/04/22 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			09/01/22 09:48	09/04/22 12:41	1
1,4-Difluorobenzene (Surr)	109		70 - 130			09/01/22 09:48	09/04/22 12:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/04/22 20:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/29/22 10:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/25/22 16:27	08/27/22 03:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/25/22 16:27	08/27/22 03:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/25/22 16:27	08/27/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			08/25/22 16:27	08/27/22 03:55	1
o-Terphenyl	116		70 - 130			08/25/22 16:27	08/27/22 03:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		5.01	mg/Kg			08/30/22 23:05	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: SW03

Lab Sample ID: 890-2816-11

Date Collected: 08/23/22 12:30

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/02/22 15:33	09/05/22 23:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/02/22 15:33	09/05/22 23:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/02/22 15:33	09/05/22 23:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/02/22 15:33	09/05/22 23:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/02/22 15:33	09/05/22 23:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/02/22 15:33	09/05/22 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/02/22 15:33	09/05/22 23:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/02/22 15:33	09/05/22 23:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

Method: 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		08/26/22 14:19	08/29/22 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/26/22 14:19	08/29/22 00:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/26/22 14:19	08/29/22 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	08/26/22 14:19	08/29/22 00:58	1
o-Terphenyl	116		70 - 130	08/26/22 14:19	08/29/22 00:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5		4.99	mg/Kg			08/30/22 23:12	1

Client Sample ID: SS05

Lab Sample ID: 890-2816-12

Date Collected: 08/23/22 11:00

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 23:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 23:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 23:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/02/22 15:33	09/05/22 23:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 23:35	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/02/22 15:33	09/05/22 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/02/22 15:33	09/05/22 23:35	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: SS05

Lab Sample ID: 890-2816-12

Date Collected: 08/23/22 11:00

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130	09/02/22 15:33	09/05/22 23:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

Method: 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		08/26/22 13:06	08/27/22 02:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 02:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 02:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/26/22 13:06	08/27/22 02:03	1
o-Terphenyl	104		70 - 130			08/26/22 13:06	08/27/22 02:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.1		5.02	mg/Kg			09/01/22 08:44	1

Client Sample ID: SS06

Lab Sample ID: 890-2816-13

Date Collected: 08/23/22 11:10

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 23:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 23:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 23:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 23:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 23:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/02/22 15:33	09/05/22 23:56	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	09/02/22 15:33	09/05/22 23:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: SS06

Lab Sample ID: 890-2816-13

Date Collected: 08/23/22 11:10

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0.5

Method: 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		08/26/22 13:06	08/27/22 02:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 02:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			08/26/22 13:06	08/27/22 02:24	1
o-Terphenyl	85		70 - 130			08/26/22 13:06	08/27/22 02:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		4.95	mg/Kg			09/01/22 08:51	1

Client Sample ID: SS07

Lab Sample ID: 890-2816-14

Date Collected: 08/23/22 11:20

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/06/22 00:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/06/22 00:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/06/22 00:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/06/22 00:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/06/22 00:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/06/22 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/02/22 15:33	09/06/22 00:16	1
1,4-Difluorobenzene (Surr)	90		70 - 130			09/02/22 15:33	09/06/22 00:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/04/22 20:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	189		49.8	mg/Kg			08/29/22 10:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/26/22 13:06	08/27/22 03:06	1
Diesel Range Organics (Over C10-C28)	64.5		49.8	mg/Kg		08/26/22 13:06	08/27/22 03:06	1
Oil Range Organics (Over C28-C36)	12.4		49.8	mg/Kg		08/26/22 13:06	08/27/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			08/26/22 13:06	08/27/22 03:06	1
o-Terphenyl	88		70 - 130			08/26/22 13:06	08/27/22 03:06	1

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Client Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: SS07

Lab Sample ID: 890-2816-14

Date Collected: 08/23/22 11:20

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		5.02	mg/Kg			09/01/22 08:58	1

Client Sample ID: SS08

Lab Sample ID: 890-2816-15

Date Collected: 08/23/22 11:30

Matrix: Solid

Date Received: 08/23/22 16:32

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/06/22 00:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/06/22 00:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/06/22 00:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/02/22 15:33	09/06/22 00:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/06/22 00:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/02/22 15:33	09/06/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			09/02/22 15:33	09/06/22 00:36	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/02/22 15:33	09/06/22 00:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/04/22 20:06	1

Method: 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			08/29/22 10:06	1

Method: 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		08/26/22 13:06	08/27/22 02:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/26/22 13:06	08/27/22 02:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/26/22 13:06	08/27/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			08/26/22 13:06	08/27/22 02:45	1
o-Terphenyl	90		70 - 130			08/26/22 13:06	08/27/22 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.00		4.97	mg/Kg			09/01/22 09:06	1

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Surrogate Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-18420-A-1-B MS	Matrix Spike	92	102				
880-18420-A-1-C MSD	Matrix Spike Duplicate	99	98				
890-2809-A-1-E MS	Matrix Spike	141 S1+	103				
890-2809-A-1-F MSD	Matrix Spike Duplicate	110	110				
890-2816-1	FS01	86	106				
890-2816-2	FS02	89	106				
890-2816-3	FS03	86	105				
890-2816-4	FS04	91	110				
890-2816-5	FS05	113	96				
890-2816-6	FS06	113	84				
890-2816-7	FS07	113	91				
890-2816-8	FS08	111	74				
890-2816-9	SW01	86	102				
890-2816-10	SW02	86	109				
890-2816-11	SW03	122	89				
890-2816-12	SS05	118	80				
890-2816-13	SS06	104	69 S1-				
890-2816-14	SS07	122	90				
890-2816-15	SS08	125	92				
LCS 880-33517/1-A	Lab Control Sample	89	104				
LCS 880-33660/1-A	Lab Control Sample	128	101				
LCSD 880-33517/2-A	Lab Control Sample Dup	94	100				
LCSD 880-33660/2-A	Lab Control Sample Dup	128	102				
MB 880-33067/5-A	Method Blank	79	116				
MB 880-33517/5-A	Method Blank	80	115				
MB 880-33660/5-A	Method Blank	108	94				
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	OTPH1				
		(70-130)	(70-130)				
890-2812-A-1-C MS	Matrix Spike	90	84				
890-2812-A-1-D MSD	Matrix Spike Duplicate	93	85				
890-2816-1	FS01	78	74				
890-2816-2	FS02	95	97				
890-2816-3	FS03	88	89				
890-2816-4	FS04	71	69 S1-				
890-2816-5	FS05	92	90				
890-2816-6	FS06	127	116				
890-2816-7	FS07	136 S1+	131 S1+				
890-2816-8	FS08	113	109				
890-2816-9	SW01	82	79				
890-2816-10	SW02	113	116				
890-2816-11	SW03	127	116				

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Surrogate Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2816-12	SS05	94	104
890-2816-13	SS06	77	85
890-2816-14	SS07	85	88
890-2816-15	SS08	82	90
890-2842-A-1-C MS	Matrix Spike	81	78
890-2842-A-1-D MSD	Matrix Spike Duplicate	88	82
LCS 880-33061/2-A	Lab Control Sample	93	106
LCS 880-33084/2-A	Lab Control Sample	105	114
LCSD 880-33061/3-A	Lab Control Sample Dup	92	103
LCSD 880-33084/3-A	Lab Control Sample Dup	108	119
MB 880-33061/1-A	Method Blank	80	94
MB 880-33084/1-A	Method Blank	73	79

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33067/5-A

Matrix: Solid

Analysis Batch: 33694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33067

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/26/22 13:58	09/03/22 16:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/26/22 13:58	09/03/22 16:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/26/22 13:58	09/03/22 16:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/26/22 13:58	09/03/22 16:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/26/22 13:58	09/03/22 16:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/26/22 13:58	09/03/22 16:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/26/22 13:58	09/03/22 16:29	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/26/22 13:58	09/03/22 16:29	1

Lab Sample ID: MB 880-33517/5-A

Matrix: Solid

Analysis Batch: 33694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33517

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 04:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 04:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 04:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/01/22 09:48	09/04/22 04:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/01/22 09:48	09/04/22 04:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/01/22 09:48	09/04/22 04:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	09/01/22 09:48	09/04/22 04:56	1
1,4-Difluorobenzene (Surr)	115		70 - 130	09/01/22 09:48	09/04/22 04:56	1

Lab Sample ID: LCS 880-33517/1-A

Matrix: Solid

Analysis Batch: 33694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1118		mg/Kg		112	70 - 130
Toluene	0.100	0.1053		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.1826		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09566		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-33517/2-A

Matrix: Solid

Analysis Batch: 33694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	6	35

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Lab Sample ID: LCSD 880-33517/2-A

Matrix: Solid

Analysis Batch: 33694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	4	35
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2002		mg/Kg		100	70 - 130	9	35
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-18420-A-1-B MS

Matrix: Solid

Analysis Batch: 33694

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08123		mg/Kg		81	70 - 130
Toluene	<0.00199	U F1	0.0998	0.06569	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.04828	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.08446	F1	mg/Kg		42	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.04561	F1	mg/Kg		46	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-18420-A-1-C MSD

Matrix: Solid

Analysis Batch: 33694

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07476		mg/Kg		74	70 - 130	8	35
Toluene	<0.00199	U F1	0.100	0.06471	F1	mg/Kg		64	70 - 130	2	35
Ethylbenzene	<0.00199	U F1	0.100	0.04660	F1	mg/Kg		46	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.08240	F1	mg/Kg		41	70 - 130	2	35
o-Xylene	<0.00199	U F1	0.100	0.04473	F1	mg/Kg		45	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-33660/5-A

Matrix: Solid

Analysis Batch: 33741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33660

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/02/22 15:33	09/05/22 17:03	1

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Lab Sample ID: MB 880-33660/5-A

Matrix: Solid

Analysis Batch: 33741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33660

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/02/22 15:33	09/05/22 17:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/02/22 15:33	09/05/22 17:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/02/22 15:33	09/05/22 17:03	1

Lab Sample ID: LCS 880-33660/1-A

Matrix: Solid

Analysis Batch: 33741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09189		mg/Kg		92	70 - 130
Toluene	0.100	0.08925		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09337		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-33660/2-A

Matrix: Solid

Analysis Batch: 33741

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33660

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09911		mg/Kg		99	70 - 130	8	35
Toluene	0.100	0.09836		mg/Kg		98	70 - 130	10	35
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2226		mg/Kg		111	70 - 130	10	35
o-Xylene	0.100	0.1281		mg/Kg		128	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2809-A-1-E MS

Matrix: Solid

Analysis Batch: 33741

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33660

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0998	0.05599	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1	0.0998	0.05008	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.04944	F1	mg/Kg		50	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1012	F1	mg/Kg		51	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.05800	F1	mg/Kg		58	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Lab Sample ID: 890-2809-A-1-E MS

Matrix: Solid

Analysis Batch: 33741

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33660

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2809-A-1-F MSD

Matrix: Solid

Analysis Batch: 33741

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.07600		mg/Kg		76	70 - 130	30	35
Toluene	<0.00199	U F1	0.100	0.06048	F1	mg/Kg		60	70 - 130	19	35
Ethylbenzene	<0.00199	U F1	0.100	0.04987	F1	mg/Kg		50	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.09832	F1	mg/Kg		49	70 - 130	3	35
o-Xylene	<0.00199	U F1	0.100	0.05860	F1	mg/Kg		58	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-33061/1-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33061

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/26/22 20:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/26/22 20:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/26/22 20:32	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	80		70 - 130	08/26/22 13:06	08/26/22 20:32	1		
o-Terphenyl	94		70 - 130	08/26/22 13:06	08/26/22 20:32	1		

Lab Sample ID: LCS 880-33061/2-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	896.9		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	884.2		mg/Kg		88	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	106		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Lab Sample ID: LCSD 880-33061/3-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33061

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	921.3		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	899.8		mg/Kg		90	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-2842-A-1-C MS

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	811.4		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	733.7		mg/Kg		73	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	81		70 - 130								
o-Terphenyl	78		70 - 130								

Lab Sample ID: 890-2842-A-1-D MSD

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33061

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	<49.9	U	998	875.8		mg/Kg		88	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	805.7		mg/Kg		81	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: MB 880-33084/1-A

Matrix: Solid

Analysis Batch: 33127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33084

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/26/22 15:42	08/28/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/26/22 15:42	08/28/22 17:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 15:42	08/28/22 17:32	1

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Lab Sample ID: MB 880-33084/1-A

Matrix: Solid

Analysis Batch: 33127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33084

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	08/26/22 15:42	08/28/22 17:32	1
o-Terphenyl	79		70 - 130	08/26/22 15:42	08/28/22 17:32	1

Lab Sample ID: LCS 880-33084/2-A

Matrix: Solid

Analysis Batch: 33127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	882.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	963.8		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-33084/3-A

Matrix: Solid

Analysis Batch: 33127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33084

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	914.9		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1028		mg/Kg		103	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 890-2812-A-1-C MS

Matrix: Solid

Analysis Batch: 33127

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	906.5		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	728.3		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	84		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Lab Sample ID: 890-2812-A-1-D MSD

Matrix: Solid

Analysis Batch: 33127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33084

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	<49.9	U	998	955.4		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	749.7		mg/Kg		75	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	85		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33072/1-A

Matrix: Solid

Analysis Batch: 33348

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			08/30/22 19:48	1

Lab Sample ID: LCS 880-33072/2-A

Matrix: Solid

Analysis Batch: 33348

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.6		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-33072/3-A

Matrix: Solid

Analysis Batch: 33348

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	228.6		mg/Kg		91	90 - 110	3	20

Lab Sample ID: 890-2816-2 MS

Matrix: Solid

Analysis Batch: 33348

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.6		250	280.0		mg/Kg		106	90 - 110

Lab Sample ID: 890-2816-2 MSD

Matrix: Solid

Analysis Batch: 33348

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.6		250	278.7		mg/Kg		105	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-33073/1-A

Matrix: Solid

Analysis Batch: 33435

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			09/01/22 05:46	1

Lab Sample ID: LCS 880-33073/2-A

Matrix: Solid

Analysis Batch: 33435

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-33073/3-A

Matrix: Solid

Analysis Batch: 33435

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	247.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-18462-A-11-C MS

Matrix: Solid

Analysis Batch: 33435

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	4260		1260	5594		mg/Kg		106	90 - 110

Lab Sample ID: 880-18462-A-11-D MSD

Matrix: Solid

Analysis Batch: 33435

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4260		1260	5594		mg/Kg		106	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

GC VOA

Prep Batch: 33067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33067/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 33517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Total/NA	Solid	5035	
890-2816-2	FS02	Total/NA	Solid	5035	
890-2816-3	FS03	Total/NA	Solid	5035	
890-2816-4	FS04	Total/NA	Solid	5035	
890-2816-9	SW01	Total/NA	Solid	5035	
890-2816-10	SW02	Total/NA	Solid	5035	
MB 880-33517/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33517/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33517/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18420-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-18420-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 33660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-5	FS05	Total/NA	Solid	5035	
890-2816-6	FS06	Total/NA	Solid	5035	
890-2816-7	FS07	Total/NA	Solid	5035	
890-2816-8	FS08	Total/NA	Solid	5035	
890-2816-11	SW03	Total/NA	Solid	5035	
890-2816-12	SS05	Total/NA	Solid	5035	
890-2816-13	SS06	Total/NA	Solid	5035	
890-2816-14	SS07	Total/NA	Solid	5035	
890-2816-15	SS08	Total/NA	Solid	5035	
MB 880-33660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2809-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2809-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Total/NA	Solid	8021B	33517
890-2816-2	FS02	Total/NA	Solid	8021B	33517
890-2816-3	FS03	Total/NA	Solid	8021B	33517
890-2816-4	FS04	Total/NA	Solid	8021B	33517
890-2816-9	SW01	Total/NA	Solid	8021B	33517
890-2816-10	SW02	Total/NA	Solid	8021B	33517
MB 880-33067/5-A	Method Blank	Total/NA	Solid	8021B	33067
MB 880-33517/5-A	Method Blank	Total/NA	Solid	8021B	33517
LCS 880-33517/1-A	Lab Control Sample	Total/NA	Solid	8021B	33517
LCSD 880-33517/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33517
880-18420-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	33517
880-18420-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33517

Analysis Batch: 33715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

GC VOA (Continued)

Analysis Batch: 33715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-2	FS02	Total/NA	Solid	Total BTEX	
890-2816-3	FS03	Total/NA	Solid	Total BTEX	
890-2816-4	FS04	Total/NA	Solid	Total BTEX	
890-2816-5	FS05	Total/NA	Solid	Total BTEX	
890-2816-6	FS06	Total/NA	Solid	Total BTEX	
890-2816-7	FS07	Total/NA	Solid	Total BTEX	
890-2816-8	FS08	Total/NA	Solid	Total BTEX	
890-2816-9	SW01	Total/NA	Solid	Total BTEX	
890-2816-10	SW02	Total/NA	Solid	Total BTEX	
890-2816-11	SW03	Total/NA	Solid	Total BTEX	
890-2816-12	SS05	Total/NA	Solid	Total BTEX	
890-2816-13	SS06	Total/NA	Solid	Total BTEX	
890-2816-14	SS07	Total/NA	Solid	Total BTEX	
890-2816-15	SS08	Total/NA	Solid	Total BTEX	

Analysis Batch: 33741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-5	FS05	Total/NA	Solid	8021B	33660
890-2816-6	FS06	Total/NA	Solid	8021B	33660
890-2816-7	FS07	Total/NA	Solid	8021B	33660
890-2816-8	FS08	Total/NA	Solid	8021B	33660
890-2816-11	SW03	Total/NA	Solid	8021B	33660
890-2816-12	SS05	Total/NA	Solid	8021B	33660
890-2816-13	SS06	Total/NA	Solid	8021B	33660
890-2816-14	SS07	Total/NA	Solid	8021B	33660
890-2816-15	SS08	Total/NA	Solid	8021B	33660
MB 880-33660/5-A	Method Blank	Total/NA	Solid	8021B	33660
LCS 880-33660/1-A	Lab Control Sample	Total/NA	Solid	8021B	33660
LCSD 880-33660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33660
890-2809-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	33660
890-2809-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33660

GC Semi VOA

Prep Batch: 33000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Total/NA	Solid	8015NM Prep	
890-2816-2	FS02	Total/NA	Solid	8015NM Prep	
890-2816-3	FS03	Total/NA	Solid	8015NM Prep	
890-2816-4	FS04	Total/NA	Solid	8015NM Prep	
890-2816-9	SW01	Total/NA	Solid	8015NM Prep	
890-2816-10	SW02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Total/NA	Solid	8015B NM	33000
890-2816-2	FS02	Total/NA	Solid	8015B NM	33000
890-2816-3	FS03	Total/NA	Solid	8015B NM	33000
890-2816-4	FS04	Total/NA	Solid	8015B NM	33000
890-2816-9	SW01	Total/NA	Solid	8015B NM	33000
890-2816-10	SW02	Total/NA	Solid	8015B NM	33000

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QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

GC Semi VOA

Analysis Batch: 33016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-12	SS05	Total/NA	Solid	8015B NM	33061
890-2816-13	SS06	Total/NA	Solid	8015B NM	33061
890-2816-14	SS07	Total/NA	Solid	8015B NM	33061
890-2816-15	SS08	Total/NA	Solid	8015B NM	33061
MB 880-33061/1-A	Method Blank	Total/NA	Solid	8015B NM	33061
LCS 880-33061/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33061
LCSD 880-33061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33061
890-2842-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	33061
890-2842-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	33061

Prep Batch: 33061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-12	SS05	Total/NA	Solid	8015NM Prep	
890-2816-13	SS06	Total/NA	Solid	8015NM Prep	
890-2816-14	SS07	Total/NA	Solid	8015NM Prep	
890-2816-15	SS08	Total/NA	Solid	8015NM Prep	
MB 880-33061/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33061/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2842-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2842-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 33071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-6	FS06	Total/NA	Solid	8015NM Prep	
890-2816-7	FS07	Total/NA	Solid	8015NM Prep	
890-2816-8	FS08	Total/NA	Solid	8015NM Prep	
890-2816-11	SW03	Total/NA	Solid	8015NM Prep	

Prep Batch: 33084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-33084/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33084/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33084/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2812-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2812-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-5	FS05	Total/NA	Solid	8015B NM	33084
MB 880-33084/1-A	Method Blank	Total/NA	Solid	8015B NM	33084
LCS 880-33084/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33084
LCSD 880-33084/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33084
890-2812-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	33084
890-2812-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	33084

Analysis Batch: 33131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-6	FS06	Total/NA	Solid	8015B NM	33071
890-2816-7	FS07	Total/NA	Solid	8015B NM	33071

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QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

GC Semi VOA (Continued)

Analysis Batch: 33131 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-8	FS08	Total/NA	Solid	8015B NM	33071
890-2816-11	SW03	Total/NA	Solid	8015B NM	33071

Analysis Batch: 33176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Total/NA	Solid	8015 NM	
890-2816-2	FS02	Total/NA	Solid	8015 NM	
890-2816-3	FS03	Total/NA	Solid	8015 NM	
890-2816-4	FS04	Total/NA	Solid	8015 NM	
890-2816-5	FS05	Total/NA	Solid	8015 NM	
890-2816-6	FS06	Total/NA	Solid	8015 NM	
890-2816-7	FS07	Total/NA	Solid	8015 NM	
890-2816-8	FS08	Total/NA	Solid	8015 NM	
890-2816-9	SW01	Total/NA	Solid	8015 NM	
890-2816-10	SW02	Total/NA	Solid	8015 NM	
890-2816-11	SW03	Total/NA	Solid	8015 NM	
890-2816-12	SS05	Total/NA	Solid	8015 NM	
890-2816-13	SS06	Total/NA	Solid	8015 NM	
890-2816-14	SS07	Total/NA	Solid	8015 NM	
890-2816-15	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 33072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Soluble	Solid	DI Leach	
890-2816-2	FS02	Soluble	Solid	DI Leach	
890-2816-3	FS03	Soluble	Solid	DI Leach	
890-2816-4	FS04	Soluble	Solid	DI Leach	
890-2816-5	FS05	Soluble	Solid	DI Leach	
890-2816-6	FS06	Soluble	Solid	DI Leach	
890-2816-7	FS07	Soluble	Solid	DI Leach	
890-2816-8	FS08	Soluble	Solid	DI Leach	
890-2816-9	SW01	Soluble	Solid	DI Leach	
890-2816-10	SW02	Soluble	Solid	DI Leach	
890-2816-11	SW03	Soluble	Solid	DI Leach	
MB 880-33072/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33072/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33072/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2816-2 MS	FS02	Soluble	Solid	DI Leach	
890-2816-2 MSD	FS02	Soluble	Solid	DI Leach	

Leach Batch: 33073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-12	SS05	Soluble	Solid	DI Leach	
890-2816-13	SS06	Soluble	Solid	DI Leach	
890-2816-14	SS07	Soluble	Solid	DI Leach	
890-2816-15	SS08	Soluble	Solid	DI Leach	
MB 880-33073/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33073/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33073/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

HPLC/IC (Continued)

Leach Batch: 33073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18462-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-18462-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 33348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-1	FS01	Soluble	Solid	300.0	33072
890-2816-2	FS02	Soluble	Solid	300.0	33072
890-2816-3	FS03	Soluble	Solid	300.0	33072
890-2816-4	FS04	Soluble	Solid	300.0	33072
890-2816-5	FS05	Soluble	Solid	300.0	33072
890-2816-6	FS06	Soluble	Solid	300.0	33072
890-2816-7	FS07	Soluble	Solid	300.0	33072
890-2816-8	FS08	Soluble	Solid	300.0	33072
890-2816-9	SW01	Soluble	Solid	300.0	33072
890-2816-10	SW02	Soluble	Solid	300.0	33072
890-2816-11	SW03	Soluble	Solid	300.0	33072
MB 880-33072/1-A	Method Blank	Soluble	Solid	300.0	33072
LCS 880-33072/2-A	Lab Control Sample	Soluble	Solid	300.0	33072
LCSD 880-33072/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33072
890-2816-2 MS	FS02	Soluble	Solid	300.0	33072
890-2816-2 MSD	FS02	Soluble	Solid	300.0	33072

Analysis Batch: 33435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2816-12	SS05	Soluble	Solid	300.0	33073
890-2816-13	SS06	Soluble	Solid	300.0	33073
890-2816-14	SS07	Soluble	Solid	300.0	33073
890-2816-15	SS08	Soluble	Solid	300.0	33073
MB 880-33073/1-A	Method Blank	Soluble	Solid	300.0	33073
LCS 880-33073/2-A	Lab Control Sample	Soluble	Solid	300.0	33073
LCSD 880-33073/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33073
880-18462-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	33073
880-18462-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	33073

Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS01

Lab Sample ID: 890-2816-1

Date Collected: 08/22/22 11:00

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33517	09/01/22 09:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33694	09/04/22 10:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33000	08/25/22 16:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33012	08/27/22 05:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 21:36	CH	EET MID

Client Sample ID: FS02

Lab Sample ID: 890-2816-2

Date Collected: 08/22/22 11:10

Matrix: Solid

Date Received: 08/23/22 16:32

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	33517	09/01/22 09:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33694	09/04/22 11:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33000	08/25/22 16:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33012	08/27/22 05:00	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 21:43	CH	EET MID

Client Sample ID: FS03

Lab Sample ID: 890-2816-3

Date Collected: 08/22/22 11:20

Matrix: Solid

Date Received: 08/23/22 16:32

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	33517	09/01/22 09:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33694	09/04/22 11:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33000	08/25/22 16:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33012	08/27/22 03:33	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 22:04	CH	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-2816-4

Date Collected: 08/22/22 11:30

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33517	09/01/22 09:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33694	09/04/22 12:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS04

Lab Sample ID: 890-2816-4

Date Collected: 08/22/22 11:30

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33000	08/25/22 16:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33012	08/27/22 05:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 22:11	CH	EET MID

Client Sample ID: FS05

Lab Sample ID: 890-2816-5

Date Collected: 08/23/22 09:30

Matrix: Solid

Date Received: 08/23/22 16:32

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	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 21:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33084	08/26/22 15:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33127	08/29/22 00:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 22:31	CH	EET MID

Client Sample ID: FS06

Lab Sample ID: 890-2816-6

Date Collected: 08/23/22 09:35

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 22:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33071	08/26/22 14:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33131	08/28/22 23:55	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 22:38	CH	EET MID

Client Sample ID: FS07

Lab Sample ID: 890-2816-7

Date Collected: 08/23/22 09:40

Matrix: Solid

Date Received: 08/23/22 16:32

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	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 22:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33071	08/26/22 14:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33131	08/29/22 00:16	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: FS07

Lab Sample ID: 890-2816-7

Date Collected: 08/23/22 09:40

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 22:45	CH	EET MID

Client Sample ID: FS08

Lab Sample ID: 890-2816-8

Date Collected: 08/23/22 09:45

Matrix: Solid

Date Received: 08/23/22 16:32

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	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 22:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33071	08/26/22 14:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33131	08/29/22 00:37	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 22:52	CH	EET MID

Client Sample ID: SW01

Lab Sample ID: 890-2816-9

Date Collected: 08/22/22 11:40

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33517	09/01/22 09:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33694	09/04/22 12:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33000	08/25/22 16:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33012	08/27/22 04:17	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 22:59	CH	EET MID

Client Sample ID: SW02

Lab Sample ID: 890-2816-10

Date Collected: 08/22/22 11:50

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33517	09/01/22 09:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33694	09/04/22 12:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33000	08/25/22 16:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33012	08/27/22 03:55	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 23:05	CH	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: SW03

Lab Sample ID: 890-2816-11

Date Collected: 08/23/22 12:30

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 23:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33071	08/26/22 14:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33131	08/29/22 00:58	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33072	08/26/22 14:46	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33348	08/30/22 23:12	CH	EET MID

Client Sample ID: SS05

Lab Sample ID: 890-2816-12

Date Collected: 08/23/22 11:00

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 23:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 02:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33073	08/26/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33435	09/01/22 08:44	CH	EET MID

Client Sample ID: SS06

Lab Sample ID: 890-2816-13

Date Collected: 08/23/22 11:10

Matrix: Solid

Date Received: 08/23/22 16:32

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	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 23:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 02:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33073	08/26/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33435	09/01/22 08:51	CH	EET MID

Client Sample ID: SS07

Lab Sample ID: 890-2816-14

Date Collected: 08/23/22 11:20

Matrix: Solid

Date Received: 08/23/22 16:32

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	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/06/22 00:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Client Sample ID: SS07

Lab Sample ID: 890-2816-14

Date Collected: 08/23/22 11:20

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 03:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33073	08/26/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33435	09/01/22 08:58	CH	EET MID

Client Sample ID: SS08

Lab Sample ID: 890-2816-15

Date Collected: 08/23/22 11:30

Matrix: Solid

Date Received: 08/23/22 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/06/22 00:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33715	09/04/22 20:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33176	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 02:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33073	08/26/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33435	09/01/22 09:06	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: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

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

Method Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Biash B Battery

Job ID: 890-2816-1
SDG: 03D2057016

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2816-1	FS01	Solid	08/22/22 11:00	08/23/22 16:32	2
890-2816-2	FS02	Solid	08/22/22 11:10	08/23/22 16:32	2
890-2816-3	FS03	Solid	08/22/22 11:20	08/23/22 16:32	2
890-2816-4	FS04	Solid	08/22/22 11:30	08/23/22 16:32	2
890-2816-5	FS05	Solid	08/23/22 09:30	08/23/22 16:32	2
890-2816-6	FS06	Solid	08/23/22 09:35	08/23/22 16:32	2
890-2816-7	FS07	Solid	08/23/22 09:40	08/23/22 16:32	2
890-2816-8	FS08	Solid	08/23/22 09:45	08/23/22 16:32	3
890-2816-9	SW01	Solid	08/22/22 11:40	08/23/22 16:32	0 - 3
890-2816-10	SW02	Solid	08/22/22 11:50	08/23/22 16:32	0 - 3
890-2816-11	SW03	Solid	08/23/22 12:30	08/23/22 16:32	0 - 2
890-2816-12	SS05	Solid	08/23/22 11:00	08/23/22 16:32	0.5
890-2816-13	SS06	Solid	08/23/22 11:10	08/23/22 16:32	0.5
890-2816-14	SS07	Solid	08/23/22 11:20	08/23/22 16:32	0.5
890-2816-15	SS08	Solid	08/23/22 11:30	08/23/22 16:32	0.5



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 2

Project Manager:	Katei Jennings	Bill to: (if different)	Katei Jennings
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks HWY	Address:	3122 National Parks HWY
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com, jadams@ensolum.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:	Blash B Bailey	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	03D2057016	Due Date:	5 Day TAT		
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Gilbert Moreno				
CC #:					
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No			
Samples Received Intact:	Yes No	Thermometer ID:	NW.007		
Cooler Custody Seals:	Yes No	Correction Factor:	-0.0		
Sample Custody Seals:	Yes No	Temperature Reading:	5.4		
Total Containers:		Corrected Temperature:	5.2		



890-2816 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS01	S	8.22.22	11:00	2'	Comp	1	X	X	X		None: NO	DI Water: H ₂ O
FS02	S	8.22.22	11:10	2'	Comp	1	X	X	X		Cool: Cool	MeOH: Me
FS03	S	8.22.22	11:20	2'	Comp	1	X	X	X		HCL: HC	HNO ₃ : HN
FS04	S	8.22.22	11:30	2'	Comp	1	X	X	X		H ₂ SO ₄ : H ₂	NaOH: Na
FS05	S	8.23.22	9:30	2'	Comp	1	X	X	X		H ₃ PO ₄ : HP	
FS06	S	8.23.22	9:35	2'	Comp	1	X	X	X		NaHSO ₄ : NABIS	
FS07	S	8.23.22	9:40	2'	Comp	1	X	X	X		Na ₂ S ₂ O ₃ : NaSO ₃	
FS08	S	8.23.22	9:45	3'	Comp	1	X	X	X		Zn Acetate+NaOH: Zn	
SW01	S	8.22.22	11:40	0-3'	Comp	1	X	X	X		NaOH+Ascorbic Acid: SAPC	
SW02	S	8.22.22	11:50	0-3'	Comp	1	X	X	X			

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	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 \$86.00 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
		8.23.22 16:32			



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Katei Jennings	Bill to: (if different)	Katei Jennings
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks HWY	Address:	3122 National Parks HWY
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com, jadams@ensolum.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:	Blash B Battery	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes		
Project Number:	03D2057016	Due Date:	5 Day TAT																None: NO	DI Water: H ₂ O			
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm																	Cool: Cool	MeOH: Me			
Sample's Name:	Gilbert Moreno																		HCL: HC	HNO ₃ : HN			
CC #:																			H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No																	H ₃ PO ₄ : HP				
Samples Received Intact:	Yes No	Thermometer ID:																	NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes No	Correction Factor:																	Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes No	Temperature Reading:																	Zn Acetate+NaOH: Zn				
Total Containers:		Corrected Temperature:																	NaOH+Ascorbic Acid: SACP				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters																Sample Comments
							CHLORIDES (EPA: 300.0)																
							TPH (8015)																
							BTEX (8021)																
SW03	S	8.23.22	12:30	0-2'	Comp	1	X	X	X														
SS05	S	8.23.22	11:00	0.5'	Comp	1	X	X	X														
SS06	S	8.23.22	11:10	0.5'	Comp	1	X	X	X														
SS07	S	8.23.22	11:20	0.5'	Comp	1	X	X	X														
SS08	S	8.23.22	11:30	0.5'	Comp	1	X	X	X														
Incident Numbers																							
NAPP221143447																							

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA		Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg: 1631 / 245.1 / 7470 / 7471													

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	8.23.22			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2816-1

SDG Number: 03D2057016

Login Number: 2816

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2816-1

SDG Number: 03D2057016

Login Number: 2816

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/25/22 10:42 AM

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3064-1

Laboratory Sample Delivery Group: 03D2057004

Client Project/Site: Baish B

Revision: 1

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Josh Adams

Authorized for release by:

10/4/2022 12:06:55 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: Baish B

Laboratory Job ID: 890-3064-1
SDG: 03D2057004

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Definitions/Glossary

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Job ID: 890-3064-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3064-1

REVISION

The report being provided is a revision of the original report sent on 9/30/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID names changed.

Report revision history

Receipt

The samples were received on 9/26/2022 12:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-19347-A-7-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW05 (890-3064-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Client Sample ID: FS05A

Lab Sample ID: 890-3064-1

Date Collected: 09/23/22 12:00

Matrix: Solid

Date Received: 09/26/22 12:43

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/22 07:58	09/30/22 13:08	1
o-Xylene	0.0829		0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:08	1
Xylenes, Total	0.0829		0.00401	mg/Kg		09/30/22 07:58	09/30/22 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/30/22 07:58	09/30/22 13:08	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/30/22 07:58	09/30/22 13:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0829		0.00401	mg/Kg			09/30/22 13:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.4		50.0	mg/Kg			09/28/22 09:15	1

Method: 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		09/27/22 11:43	09/28/22 05:28	1
Diesel Range Organics (Over C10-C28)	96.4		50.0	mg/Kg		09/27/22 11:43	09/28/22 05:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/22 11:43	09/28/22 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	09/27/22 11:43	09/28/22 05:28	1
o-Terphenyl	119		70 - 130	09/27/22 11:43	09/28/22 05:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		5.00	mg/Kg			09/27/22 23:12	1

Client Sample ID: FS06A

Lab Sample ID: 890-3064-2

Date Collected: 09/23/22 12:05

Matrix: Solid

Date Received: 09/26/22 12:43

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/22 07:58	09/30/22 13:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 13:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/22 07:58	09/30/22 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/30/22 07:58	09/30/22 13:29	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Client Sample ID: FS06A

Lab Sample ID: 890-3064-2

Date Collected: 09/23/22 12:05

Matrix: Solid

Date Received: 09/26/22 12:43

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	09/30/22 07:58	09/30/22 13:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/30/22 13:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/28/22 09:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/27/22 11:43	09/28/22 05:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/27/22 11:43	09/28/22 05:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/27/22 11:43	09/28/22 05:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			09/27/22 11:43	09/28/22 05:49	1
o-Terphenyl	112		70 - 130			09/27/22 11:43	09/28/22 05:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		4.97	mg/Kg			09/27/22 23:26	1

Client Sample ID: SW04

Lab Sample ID: 890-3064-3

Date Collected: 09/23/22 12:10

Matrix: Solid

Date Received: 09/26/22 12:43

Sample Depth: 0 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/22 07:58	09/30/22 13:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/22 07:58	09/30/22 13:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/30/22 07:58	09/30/22 13:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/22 07:58	09/30/22 13:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/30/22 07:58	09/30/22 13:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/22 07:58	09/30/22 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/30/22 07:58	09/30/22 13:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/30/22 07:58	09/30/22 13:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/30/22 13:51	1

Method: 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			09/28/22 09:15	1

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Client Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Client Sample ID: SW04

Lab Sample ID: 890-3064-3

Date Collected: 09/23/22 12:10

Matrix: Solid

Date Received: 09/26/22 12:43

Sample Depth: 0 - 3

Method: 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		09/27/22 11:43	09/28/22 04:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/22 11:43	09/28/22 04:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/22 11:43	09/28/22 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			09/27/22 11:43	09/28/22 04:45	1
o-Terphenyl	111		70 - 130			09/27/22 11:43	09/28/22 04:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		4.98	mg/Kg			09/27/22 23:31	1

Client Sample ID: SW05

Lab Sample ID: 890-3064-4

Date Collected: 09/23/22 12:15

Matrix: Solid

Date Received: 09/26/22 12:43

Sample Depth: 0 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/22 07:58	09/30/22 15:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/22 07:58	09/30/22 15:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/22 07:58	09/30/22 15:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/22 07:58	09/30/22 15:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/22 07:58	09/30/22 15:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/22 07:58	09/30/22 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/30/22 07:58	09/30/22 15:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/30/22 07:58	09/30/22 15:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/30/22 13:51	1

Method: 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			09/28/22 09:15	1

Method: 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		09/27/22 11:43	09/28/22 05:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/27/22 11:43	09/28/22 05:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/27/22 11:43	09/28/22 05:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			09/27/22 11:43	09/28/22 05:07	1
o-Terphenyl	131	S1+	70 - 130			09/27/22 11:43	09/28/22 05:07	1

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Client Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Client Sample ID: SW05
Date Collected: 09/23/22 12:15
Date Received: 09/26/22 12:43
Sample Depth: 0 - 3

Lab Sample ID: 890-3064-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	18.0		5.02	mg/Kg			09/27/22 23:36	1	

Surrogate Summary

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

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)
880-19347-A-7-F MS	Matrix Spike	118	105
880-19347-A-7-G MSD	Matrix Spike Duplicate	133 S1+	102
890-3064-1	FS05A	105	79
890-3064-2	FS06A	116	95
890-3064-3	SW04	109	92
890-3064-4	SW05	105	100
LCS 880-35745/1-A	Lab Control Sample	120	102
LCSD 880-35745/2-A	Lab Control Sample Dup	128	95
MB 880-35745/5-A	Method Blank	104	87

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)
890-3046-A-1-E MS	Matrix Spike	106	99
890-3046-A-1-F MSD	Matrix Spike Duplicate	95	89
890-3064-1	FS05A	114	119
890-3064-2	FS06A	106	112
890-3064-3	SW04	109	111
890-3064-4	SW05	122	131 S1+
LCS 880-35513/2-A	Lab Control Sample	98	102
LCSD 880-35513/3-A	Lab Control Sample Dup	114	124
MB 880-35513/1-A	Method Blank	109	112

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35745/5-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35745

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 10:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/22 07:58	09/30/22 10:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/22 07:58	09/30/22 10:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/30/22 07:58	09/30/22 10:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/30/22 07:58	09/30/22 10:23	1

Lab Sample ID: LCS 880-35745/1-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08346		mg/Kg		83	70 - 130
Toluene	0.100	0.07921		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08765		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-35745/2-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07504		mg/Kg		75	70 - 130	11	35
Toluene	0.100	0.08078		mg/Kg		81	70 - 130	2	35
Ethylbenzene	0.100	0.08938		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.1078		mg/Kg		108	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-19347-A-7-F MS

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.08818		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.0998	0.08271		mg/Kg		83	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

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

Lab Sample ID: 880-19347-A-7-F MS

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.08821		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1806		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1019		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-19347-A-7-G MSD

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.08390		mg/Kg		84	70 - 130	5	35
Toluene	<0.00200	U	0.0996	0.08269		mg/Kg		83	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.09357		mg/Kg		94	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1984		mg/Kg		100	70 - 130	9	35
o-Xylene	<0.00200	U	0.0996	0.1133		mg/Kg		114	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-35513/1-A

Matrix: Solid

Analysis Batch: 35458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35513

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/27/22 11:43	09/27/22 20:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/27/22 11:43	09/27/22 20:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/27/22 11:43	09/27/22 20:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	09/27/22 11:43	09/27/22 20:58	1
o-Terphenyl	112		70 - 130	09/27/22 11:43	09/27/22 20:58	1

Lab Sample ID: LCS 880-35513/2-A

Matrix: Solid

Analysis Batch: 35458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	820.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1005		mg/Kg		100	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

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

Lab Sample ID: LCS 880-35513/2-A

Matrix: Solid

Analysis Batch: 35458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35513

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-35513/3-A

Matrix: Solid

Analysis Batch: 35458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35513

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	897.0		mg/Kg		90	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1217		mg/Kg		122	70 - 130	19	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 890-3046-A-1-E MS

Matrix: Solid

Analysis Batch: 35458

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35513

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	914.1		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1142		mg/Kg		114	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-3046-A-1-F MSD

Matrix: Solid

Analysis Batch: 35458

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35513

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	999	849.3		mg/Kg		85	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1043		mg/Kg		104	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	89		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35474/1-A

Matrix: Solid

Analysis Batch: 35539

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			09/27/22 22:57	1

Lab Sample ID: LCS 880-35474/2-A

Matrix: Solid

Analysis Batch: 35539

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.8		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-35474/3-A

Matrix: Solid

Analysis Batch: 35539

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	238.6		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-3064-1 MS

Matrix: Solid

Analysis Batch: 35539

Client Sample ID: FS05A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.5		250	246.1		mg/Kg		90	90 - 110

Lab Sample ID: 890-3064-1 MSD

Matrix: Solid

Analysis Batch: 35539

Client Sample ID: FS05A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.5		250	247.3		mg/Kg		91	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

GC VOA

Analysis Batch: 35744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Total/NA	Solid	8021B	35745
890-3064-2	FS06A	Total/NA	Solid	8021B	35745
890-3064-3	SW04	Total/NA	Solid	8021B	35745
890-3064-4	SW05	Total/NA	Solid	8021B	35745
MB 880-35745/5-A	Method Blank	Total/NA	Solid	8021B	35745
LCS 880-35745/1-A	Lab Control Sample	Total/NA	Solid	8021B	35745
LCSD 880-35745/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35745
880-19347-A-7-F MS	Matrix Spike	Total/NA	Solid	8021B	35745
880-19347-A-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35745

Prep Batch: 35745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Total/NA	Solid	5035	
890-3064-2	FS06A	Total/NA	Solid	5035	
890-3064-3	SW04	Total/NA	Solid	5035	
890-3064-4	SW05	Total/NA	Solid	5035	
MB 880-35745/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35745/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35745/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19347-A-7-F MS	Matrix Spike	Total/NA	Solid	5035	
880-19347-A-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Total/NA	Solid	Total BTEX	
890-3064-2	FS06A	Total/NA	Solid	Total BTEX	
890-3064-3	SW04	Total/NA	Solid	Total BTEX	
890-3064-4	SW05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Total/NA	Solid	8015B NM	35513
890-3064-2	FS06A	Total/NA	Solid	8015B NM	35513
890-3064-3	SW04	Total/NA	Solid	8015B NM	35513
890-3064-4	SW05	Total/NA	Solid	8015B NM	35513
MB 880-35513/1-A	Method Blank	Total/NA	Solid	8015B NM	35513
LCS 880-35513/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35513
LCSD 880-35513/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35513
890-3046-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	35513
890-3046-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35513

Prep Batch: 35513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Total/NA	Solid	8015NM Prep	
890-3064-2	FS06A	Total/NA	Solid	8015NM Prep	
890-3064-3	SW04	Total/NA	Solid	8015NM Prep	
890-3064-4	SW05	Total/NA	Solid	8015NM Prep	
MB 880-35513/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35513/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

GC Semi VOA (Continued)

Prep Batch: 35513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-35513/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3046-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3046-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Total/NA	Solid	8015 NM	
890-3064-2	FS06A	Total/NA	Solid	8015 NM	
890-3064-3	SW04	Total/NA	Solid	8015 NM	
890-3064-4	SW05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Soluble	Solid	DI Leach	
890-3064-2	FS06A	Soluble	Solid	DI Leach	
890-3064-3	SW04	Soluble	Solid	DI Leach	
890-3064-4	SW05	Soluble	Solid	DI Leach	
MB 880-35474/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35474/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35474/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3064-1 MS	FS05A	Soluble	Solid	DI Leach	
890-3064-1 MSD	FS05A	Soluble	Solid	DI Leach	

Analysis Batch: 35539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3064-1	FS05A	Soluble	Solid	300.0	35474
890-3064-2	FS06A	Soluble	Solid	300.0	35474
890-3064-3	SW04	Soluble	Solid	300.0	35474
890-3064-4	SW05	Soluble	Solid	300.0	35474
MB 880-35474/1-A	Method Blank	Soluble	Solid	300.0	35474
LCS 880-35474/2-A	Lab Control Sample	Soluble	Solid	300.0	35474
LCSD 880-35474/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35474
890-3064-1 MS	FS05A	Soluble	Solid	300.0	35474
890-3064-1 MSD	FS05A	Soluble	Solid	300.0	35474

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Client Sample ID: FS05A

Lab Sample ID: 890-3064-1

Date Collected: 09/23/22 12:00

Matrix: Solid

Date Received: 09/26/22 12:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35745	09/30/22 07:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	09/30/22 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35818	09/30/22 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			35565	09/28/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35513	09/27/22 11:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35458	09/28/22 05:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35474	09/27/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35539	09/27/22 23:12	CH	EET MID

Client Sample ID: FS06A

Lab Sample ID: 890-3064-2

Date Collected: 09/23/22 12:05

Matrix: Solid

Date Received: 09/26/22 12:43

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	35745	09/30/22 07:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	09/30/22 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35818	09/30/22 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			35565	09/28/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35513	09/27/22 11:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35458	09/28/22 05:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35474	09/27/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35539	09/27/22 23:26	CH	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-3064-3

Date Collected: 09/23/22 12:10

Matrix: Solid

Date Received: 09/26/22 12:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35745	09/30/22 07:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	09/30/22 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35818	09/30/22 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			35565	09/28/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35513	09/27/22 11:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35458	09/28/22 04:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35474	09/27/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35539	09/27/22 23:31	CH	EET MID

Client Sample ID: SW05

Lab Sample ID: 890-3064-4

Date Collected: 09/23/22 12:15

Matrix: Solid

Date Received: 09/26/22 12:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35745	09/30/22 07:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	09/30/22 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35818	09/30/22 13:51	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Client Sample ID: SW05**Date Collected: 09/23/22 12:15****Date Received: 09/26/22 12:43****Lab Sample ID: 890-3064-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35565	09/28/22 09:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35513	09/27/22 11:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35458	09/28/22 05:07	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35474	09/27/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35539	09/27/22 23:36	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: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: Baish B

Job ID: 890-3064-1
SDG: 03D2057004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3064-1	FS05A	Solid	09/23/22 12:00	09/26/22 12:43	3
890-3064-2	FS06A	Solid	09/23/22 12:05	09/26/22 12:43	3
890-3064-3	SW04	Solid	09/23/22 12:10	09/26/22 12:43	0 - 3
890-3064-4	SW05	Solid	09/23/22 12:15	09/26/22 12:43	0 - 3

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- 12
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- 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: _____

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Project Manager:	<i>Josh Adams</i>	Bill to: (if different)	
Company Name:	<i>Enselva</i>	Company Name:	
Address:	<i>3122 Natural Parks</i>	Address:	
City, State ZIP:	<i>Carlsbad, NM 88220</i>	City, State ZIP:	
Phone:	<i>703-517-8437</i>	Email:	

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:	<i>Paish B</i>	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	<i>03P2057009</i>	Due Date:	<i>2 Day</i>		
Project Location:	<i>Lea Co</i>	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	<i>CS</i>				
PO #:					
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Parameters		
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	<i>TMW007</i>		
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	<i>-0.2</i>		
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	<i>5.0</i>		
Total Containers:		Corrected Temperature:	<i>4.8</i>		



890-3064 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
<i>ES05</i>	<i>S</i>	<i>9-23</i>	<i>12:00</i>	<i>34</i>	<i>C</i>	<i>1</i>	<i>CHL</i>	None: NO DI Water: H ₂ O	
<i>ES06</i>	<i>S</i>	<i>9-23</i>	<i>12:05</i>	<i>34</i>	<i>C</i>	<i>1</i>	<i>BTX</i>	Cool: Cool MeOH: Me	
							<i>TPH</i>	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: SPC	

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 SiO₂ 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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	<i>9-26-22 12:43</i>			



Environment Testing

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: _____



Page 2 of 2

Project Manager:			Bill to: (if different)	
Company Name:			Company Name:	
Address:			Address:	
City, State ZIP:			City, State ZIP:	
Phone:		Email:		

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PPR <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: _____

[illegible]

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	5b	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg:	1631 / 245.1	7470 / 7471					

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/26/22 1245			



Environment Testing

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 7 of 7



Project Manager:			Bill to: (if different)	
Company Name:			Company Name:	
Address:			Address:	
City, State ZIP:			City, State ZIP:	
Phone:		Email:		

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:	

[illegible]

Total 2002/7/6010	2003/8/6020:	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 11 Sn U V Zr	Hg: 1631/245.1/7470/7471
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of sale. Eurofins Xeno will be liable only for the costs 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9-26-2012 4:30			

Revised Date: 08/25/2010 Rev: 2010.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3064-1

SDG Number: 03D2057004

Login Number: 3064**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3064-1

SDG Number: 03D2057004

Login Number: 3064**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 09/27/22 10:56 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 F

NMOCD Notifications

From: [Nobui, Jennifer, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Mike, EMNRD](#); [Harimon, Jocelyn, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: FW: [EXTERNAL] Maverick- Sampling Notification (Week of 08/08/22-08/12/22)
Date: Thursday, August 4, 2022 10:44:03 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Kalei

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

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, August 4, 2022 9:21 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] Maverick- Sampling Notification (Week of 08/08/22-08/12/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, August 4, 2022 9:20 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Thomas Haigood <Thomas.Haigood@mavresources.com>; Cody Chesshire <Cody.Chesshire@mavresources.com>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 08/08/22-08/12/22)

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

All,

Maverick Natural Resources plans to complete final sampling activities at the following sites the week of August 8, 2022.

Monday:

Tuesday:

Wednesday:

- EVGSAU 3202-385 / NAPP2207331663

Thursday:

- Baish B Battery / NAPP2211143447

Friday:

- Baish B Battery / NAPP2211143447

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



From: [Nobui, Jennifer, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: FW: [EXTERNAL] Maverick- Sampling Notification (Week of 09/19/22-09/23/22)
Date: Tuesday, September 20, 2022 10:25:51 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Kalei

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

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, September 20, 2022 8:01 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] Maverick- Sampling Notification (Week of 09/19/22-09/23/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Monday, September 19, 2022 8:26 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 09/19/22-09/23/22)

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

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of September 19, 2022.

Wednesday (9/21/2022)

- Baish B Battery/ NAPP2211143447

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



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

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

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

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

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

CONDITIONS

Action 149120

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 149120
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/13/2022