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

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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

)

Page 1 of 188

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		

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)

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

Page	2
1 uge	-

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice 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

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

The source of the release has been stopped.

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:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Spill Calculation - Subsurface Spill - Rectangle

Received by OCD: 7/1/202	74 8-47-39	<u>4M</u>		ũ ST	1000		
Convert Irregular shape nto a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	42.0	10.0	6.0	On-Pad∨	8.00%	37.38	2.99
Rectangle B	20.0	18.0	4.0	On-Pad ∽	8.00%	21.36	1.71
Rectangle C	12.0	16.0	3.0	On-Pad ∽	8.00%	8.54	0.68
Rectangle D	12.0	8.0	3.0	On-Pad ∽	8.00%	4.27	0.34
Rectangle E	10.0	16.0	4.0	On-Pad ∽	8.00%	9.49	0.76
Rectangle F	13.0	8.0	3.0	On-Pad ∽	8.00%	4.63	0.37
Rectangle G	3.0	2.0	3.0	On-Pad ∽	8.00%	0.27	0.02
Rectangle H	8.0	5.0	3.0	On-Pad ∽	8.00%	1.78	0.14
Rectangle I				~		0.00	
Released to Imaging: 7/15	/2024 3.2	4.33 PM		~		0.00	
<u> </u>	Total Subsurface Volume Released: 7.0179						

Remediation Recommendation		
Total Estimated	Page 3 of 188	
Contaminated	Current Rule of Thumb -	
Soil,	RMR Handover Volume,	
uncompacted,	(yd ³ .)	
25% (yd ³ .)		
9.72		
5.56		
2.22		
1.11		
2.47	750	
1.20	150	
0.07		
0.46		
0.00		
0.00		
22.82	BU	

E N S O L U M

June 24, 2024

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

Re: Closure Request Buck Federal CTB Incident Number NAPP2315731307 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Buck Federal CTB (Site), in accordance with an approved *Remediation Work Plan (Work Plan)*, submitted August 29, 2023. The *Work Plan* detailed delineation activities that were completed at the Site and proposed a liner inspection and excavation of impacted soil identified at the Site. Based on assessment and excavation activities completed and laboratory analytical results from the soil sampling events in accordance with the *Work Plan*, COP is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2315731307.

Details regarding the release, Site characterization, and proposed remediation activities can be referenced in the original *Work Plan* submitted on August 29, 2023. The original *Work Plan* is included as Appendix A. On December 28, 2023, the New Mexico Oil Conservation Division (NMOCD) approved the *Work Plan* as written.

BACKGROUND

The Site is located in Unit O, Section 17, Township 26 South, Range 32 East, in Lea County, New Mexico (32.0375°, -103.6966°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 1, 2023, a storage tank was overfilled, resulting in the release of approximately 7.0179 barrels (bbls) of crude oil within the lined storage tank containment berm and onto the surface of the well pad, north of the containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of crude oil were recovered. COP reported the release to the NMOCD immediately via email and subsequently submitted a *Release Notification Form C-141* (Form C-141) on June 6, 2023. The release was assigned Incident Number NAPP2315731307.

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Based on the results of the Site Characterization reported in the August 2023 *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

• Benzene: 10 milligrams per kilogram (mg/kg)

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

LINER INSPECTION ACTIVITIES

A 48-hour advance notice of the liner inspection was submitted on January 11, 2024, to the NMOCD. A liner integrity inspection was conducted by Ensolum personnel on January 16, 2024. Upon inspection, no rips, tears, holes, or damage was observed. The liner was determined to be sufficient, and all released fluids have been removed. Photographic documentation was conducted at the Site. A photographic log is included in Appendix B.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

Between June 6 and June 13, 2024, Ensolum personnel oversaw excavation activities based on field screening activities and laboratory analytical results from delineation activities. Excavation activities were performed via mini excavator, hydrovac, hand shovels, and transport vehicles. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach[®] chloride QuanTab[®] test strips. The excavation was completed to depths ranging from 1-foot to 4 feet bgs. Photographic documentation is included in Appendix B.

Following soil 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 1-foot to 4 feet bgs. Composite soil samples SW01 through SW05 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 3.

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 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 all excavation samples (FS01 through FS08 and SW01 through SW05) indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 1,362 square feet in areal extent. A total of approximately 200 cubic yards of impacted soil was removed during the excavation activities. The soil was transported and properly disposed of at the Lea Land Disposal Facility in Jal, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST



ConocoPhillips Company Closure Request Buck Federal CTB

Remediation activities were conducted at the Site to address the June 2023 crude oil release. A liner integrity inspection was conducted by Ensolum personnel on January 16, 2024. Upon inspection, no rips, tears, holes, or damage was observed, and the liner was determined to be sufficient. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil analytical results, no further remediation is required. COP will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions.

Based on initial response efforts, the liner operating as designed, and soil sample laboratory analytical results confirming the removal of impacted soil, these actions appear to have been protective of human health, the environment, and groundwater. As such, COP respectfully requests closure for Incident Number NAPP2315731307.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely, **Ensolum, LLC**

Aadlie Green Project Geologist

Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist

cc: Jacob Laird, ConocoPhillips Company Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 3 Assessment and Delineation Soil Sample Locations
- Figure 2 Excavation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A August 29, 2023, Remediation Work Plan
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation





FIGURES

Received by OCD: 7/1/2024 8:42:39 AM

Page 8 of 188



FIGURE

2



Assessment and Delineation Soil Sample Locations

ConocoPhillips Company Buck Federal CTB Incident Number: NAPP2315731307 Unit O, Sec 17, T26S, R32E Lea County, New Mexico

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Environmental, Engineering and Hydrogeologic Consultants

NSOLUM





TABLES

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ENSOLUM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Buck Federal CTB ConocoPhillips Company Lea County, New Mexico														
Sample Designation														
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000				
Assessment Soil Samples														
SS01	06/07/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	52.4				
SS02	06/07/2023	0.5	<0.00202	0.0153	<49.9	<49.9	<49.9	<49.9	<49.9	63.3				
SS03	06/07/2023	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	73.8				
SS04	06/07/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	52.6				
SS05	06/07/2023	0.5	<0.00201	0.0440	3,900	3,490	<49.9	7,390	7,390	59.0				
SS06	06/07/2023	0.5	<0.0400	13.0	1,450	1,930	<50.0	3,380	3,380	63.9				
SS07	06/07/2023	0.5	0.00258	0.158	6,170	5,220	<49.8	11,400	11,400	2,620				
				Deliı	neation Soil Sam	ples								
BH01A	07/17/2023	1	<0.202	49.4	1,210	1,790	<49.8	3,000	3,000	59.3				
BH01D	07/17/2023	4	<0.00200	0.0429	<49.6	80.2	<49.6	80.2	80.2	115				
BH02A	07/17/2023	1	<0.00198	0.0106	<50.5	59.2	<50.5	59.2	59.2	150				
BH02C	07/17/2023	3	<0.00202	0.00961	<49.7	<49.7	<49.7	<49.7	<49.7	634				
BH03A	07/17/2023	1	<0.499	12.7	1,600	3,210	<49.6	4,810	4,810	4,030				
BH03C	07/17/2023	3	0.662	38.0	14,200	9,840	<50.1	24,040	24,100	5,670				
BH04A	07/17/2023	1	<0.00200	0.0541	150	209	<50.0	359	359	3,600				
BH04B	07/17/2023	2	<0.00200	0.00918	<50.5	<50.5	<50.5	<50.5	<50.5	4,750				
BH04D	07/17/2023	4	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	4,190				

ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Buck Federal CTB ConocoPhillips Company Lea County, New Mexico												
Sample DesignationDepth (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)O													
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000			
	Excavation Soil Samples												
FS01	06/06/2024	4	0.00742	1.12	63.0	408	<49.9	471	471	71.5			
FS02	06/06/2024	4	0.00708	1.39	114	423	<49.9	537	537	117			
FS03	06/06/2024	4	0.0175	1.04	343	651	<50.0	994	994	137			
FS04	06/06/2024	4	<0.00200	0.0166	<49.9	118	<49.9	118	118	150			
FS05	06/06/2024	1	<0.00201	<0.00402	<50.0	103	<50.0	103	103	239			
FS06	06/06/2024	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	228			
FS07	06/13/2024	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	85.6			
FS08	06/13/2024	4	<0.00199	<0.00398	890	<49.9	<49.9	890	890	7.82			
SW01	06/06/2024	0 - 4	<0.00202	<0.00403	<49.8	93.7	<49.8	93.7	93.7	98.9			
SW02	06/13/2024	0 - 4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	11.3			
SW03	06/13/2024	0 - 4	<0.00198	<0.00397	<49.9	53.3	<49.9	53.3	53.3	46.7			
SW04	06/06/2024	0 - 1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	313			
SW05	06/13/2024	0 - 4	<0.00201	<0.00402	<49.9	57.1	<49.9	57.1	57.1	199			

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable. Grey text indicates sample has been excavated.



APPENDIX A

August 29, 2023, Remediation Work Plan

Released to Imaging: 7/15/2024 3:24:33 PM

ENSOLUM

August 29, 2023

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

Re: Remediation Work Plan Buck Federal CTB Incident Number NAPP2315731307 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared this *Remediation Work Plan (Work Plan)* to document assessment and soil sampling activities completed to date and propose additional remedial actions to address impacted soil identified at the Buck Federal CTB (Site), following a crude oil release. The following *Work Plan* proposes lateral and vertical delineation of the release and excavation of impacted soil.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 17, Township 26 South, Range 32 East, in Lea County, New Mexico (32.0375°, -103.6966°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 1, 2023, a storage tank was overfilled, resulting in the release of approximately 7.0179 barrels (bbls) of crude oil within the lined storage tank containment berm and onto the surface of the well pad north of the containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of crude oil were recovered. COP reported the release to the New Mexico Oil Conservation Division (NMOCD) immediately via email and subsequently submitted a *Release Notification Form C-141* (Form C-141) on June 6, 2023. The release was assigned Incident Number NAPP2315731307.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 51 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. The soil boring is located approximately 0.4 miles northeast of the Site and is depicted on Figure 1. The soil boring was drilled during September 2022 to a depth of 55 feet bgs and no groundwater was encountered. The soil

boring was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 8,110 feet east 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 not within a 100-year floodplain or overlying a subsurface mine. The Site is greater than 1,000 feet to a freshwater well or spring. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 7, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four assessment soil samples (SS01 through SS04) were collected around the release extent at a depth of 0.5 feet bgs to assess the lateral extent of the release. Three assessment soil samples (SS05 through SS07) were collected within the release extent at a depth of 0.5 feet bgs, to assess sufficial soil within the release extent. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The visible release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photographic log is included in Appendix B.

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

Laboratory analytical results for assessment soil samples SS01 through SS04 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for assessment soil samples SS05 through SS07 indicated TPH-GRO/TPH-DRO and TPH concentrations exceeded the Site Closure Criteria. The laboratory analytical results are summarized on the attached Table 1. Based on the laboratory analytical results, additional delineation activities were warranted.



DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 17, 2023, delineation activities were conducted at the Site to assess the vertical extent of impacted soil in the release areas outside of the lined containment. Boreholes BH01 through BH04 were advanced via hand auger in the release areas to the north, east, and west of the lined containment. The boreholes were advanced to depths ranging from 3 feet to 4 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations for the boreholes were documented on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from each borehole at depths ranging from 1-foot to 4 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

Laboratory analytical results for the delineation soil samples collected from boreholes BH02 and BH04 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for the delineation soil samples collected from boreholes BH01 and BH03 indicated TPH-GRO/TPH-DRO and TPH concentrations exceeded the Site Closure Criteria at depths ranging from 1-foot to 3 feet. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D. Based on the laboratory analytical results for assessment samples SS05 through SS07 and delineation samples collected from boreholes BH01 and BH03, additional delineation and excavation activities are warranted.

PROPOSED REMEDIAL ACTIONS

Analytical results for the assessment and delineation soil samples indicate TPH impacted soil is present in the vicinity of surface assessment samples SS05 through SS07 and boreholes BH01 and BH03. As such, COP requests approval to complete the following remediation activities:

Release Area Within Lined Containment:

- The lined tank battery containment will be inspected to determine if there are any deficiencies, specifically, tears or holes in the liner that could have allowed released fluids to migrate to the subsurface. Photographic documentation will be completed to confirm the integrity of the liner.
 - If the liner is intact with no tears or holes, no further action will be required within the lined containment area.
 - If the integrity of the liner is compromised, additional delineation activities will be completed to assess for the presence or absence of impacts to soil beneath the liner.
 - If impacts are identified beneath the lined containment, COP will delineate the lateral and vertical extent of impacted soil beneath the lined containment and request deferral of final remediation due to the presence of active production equipment in the lined containment, where remediation would require a major facility deconstruction.

Release Area Outside of Lined Containment:

• TPH impacted soil will be excavated in the accessible areas of the release extent in the vicinity of surface assessment samples SS05 and SS06 and borehole BH01. Excavation will proceed laterally and vertically until sidewall and floor samples are compliant with the Site Closure Criteria. The proposed excavation extent is shown on Figure 3.



- Following removal of the impacted soil, 5-point composite confirmation samples will be collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.
- Impacted soil will be excavated to the extent possible in the area around surface assessment sample SS07 and borehole BH03, located immediately adjacent to the lined containment. Due to the proximity of the lined containment, any impacted soil that cannot be safely excavated will be deferred to reduce the likelihood of compromising the integrity of the containment and active storage tanks. The proposed excavation extent is shown on Figure 3.
 - Any impacted soil left in place immediately adjacent to the storage tank containment will be laterally and vertically delineated to below the Site Closure Criteria.
 - To address hydrocarbon impacts left in place, a 5 percent solution of Micro-Blaze[®] and freshwater will applied to the impacted area to promote degradation of the hydrocarbons.
- The excavation and delineation samples will be submitted for laboratory analysis of BTEX, TPH, and chloride as described above.

COP will complete the delineation and excavation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. A *Deferral Request* detailing the liner inspection results, delineation and excavation activities, and volume of impacted soil left in-place will be submitted within 30 days of receipt of the final laboratory analytical results. COP does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 55 feet bgs and impacted left in-place immediately adjacent to or beneath the liner will be laterally and vertically delineated to below the Site Closure Criteria. As such, COP respectfully requests approval of this *Work Plan* for Incident Number NAPP2315731307. NMOCD notifications are included in Appendix E and the Form C-141 is included in Appendix F.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely, Ensolum, LLC

adie V/reer

Hadlie Green Project Geologist

cc: Jacob Laird, ConocoPhillips Company Bureau of Land Management

Daniel R. Moir, PG Senior Managing Geologist



Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment and Delineation Soil Sample Locations
Figure 3	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results
A 1' A	

- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications
- Appendix F Final C-141

Page 19 of 188







FIGURES

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Received by OCD: 7/1/2024 8:42:39 AM M

Page 21 of 188



FIGURE

2



ENSOLUM Environmental, Engineering and Hydrogeologic Consultants

ConocoPhillips Company Buck Federal CTB Incident Number: NAPP2315731307 Unit O, Sec 17, T26S, R32E Lea County, New Mexico

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TABLES

.

ENSOLUM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Buck Federal CTB ConocoPhillips Company Lea County, New Mexico													
Sample Designation													
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000			
Assessment Soil Samples													
SS01	06/07/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	52.4			
SS02	06/07/2023	0.5	<0.00202	0.0153	<49.9	<49.9	<49.9	<49.9	<49.9	63.3			
SS03	06/07/2023	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	73.8			
SS04	06/07/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	52.6			
SS05	06/07/2023	0.5	<0.00201	0.0440	3,900	3,490	<49.9	7,390	7,390	59.0			
SS06	06/07/2023	0.5	<0.0400	13.0	1,450	1,930	<50.0	3,380	3,380	63.9			
SS07	06/07/2023	0.5	0.00258	0.158	6,170	5,220	<49.8	11,400	11,400	2,620			
				Delir	neation Soil Sam	ples							
BH01A	07/17/2023	1	<0.202	49.4	1,210	1,790	<49.8	3,000	3,000	59.3			
BH01D	07/17/2023	4	<0.00200	0.0429	<49.6	80.2	<49.6	80.2	80.2	115			
BH02A	07/17/2023	1	<0.00198	0.0106	<50.5	59.2	<50.5	59.2	59.2	150			
BH02C	07/17/2023	3	<0.00202	0.00961	<49.7	<49.7	<49.7	<49.7	<49.7	634			
BH03A	07/17/2023	1	<0.499	12.7	1,600	3,210	<49.6	4,810	4,810	4,030			
BH03C	07/17/2023	3	0.662	38.0	14,200	9,840	<50.1	24,040	24,100	5,670			
BH04A	07/17/2023	1	<0.00200	0.0541	150	209	<50.0	359	359	3,600			
BH04B	07/17/2023	2	<0.00200	0.00918	<50.5	<50.5	<50.5	<50.5	<50.5	4,750			
BH04D	07/17/2023	4	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	4,190			

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

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records

Received by OCD: 7/1/2024 8:42:39 (AMM)

	Page 27 of 18	ß
SORING DTW	Page	

Project Name: Buck Federal CTB Release Borehole Location: GPS Coordinates: 32.037733°, -103.695950° Surface Elevation: 3171 ft Borehole Number: DTW Borehole Diameter (in.): 8 Date Started: 9/27/2022	: 9/27/2022						
	: 9/27/2022						
Borehole Number: DTW Borehole Diameter (in): 8 Date Started: 9/27/2022 Date Finished	9/27/2022						
$ \begin{array}{ c c c c c c c c } \hline & & & & & & & & & & & & & & & & & & $	PRY_ft						
Image: Depth of the prime of the prima of the prima of the prime of the prime of the prime	REMARKS						
B 0 Exsite PB 0 2 C SM-SILTY SAND: Light brown, coarse-grained, donse, with poceasional caliche, dry. -5 5 -5 -5 -5 -5 -5 -5 -5 10 -5 -5 -5 -5 -5 -5 -5 -5 10 -5 -5 -5 -5 -5 -5 -5 -5 10 -5 -5 -5 -5 -5 -5 -5 -5 10 -5							
Sampler Types: Split Spoon Acetate Liner Operation Types: Hand Auger Notes: Shelby Vane Shear Mud Rotary Air Rotary Surface elevation is an estimated value based on Google Earth Bulk Sample Discrete Sample Continuous Flight Auger Direct Push Rotary Direct Push Core Barrel Notes: Logger: Coton Bickerstaff Drilling Equipment: Air Rotary Direct Push Notes: Scarborough Drilling							

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USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	✓	New Mexico	✔	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list = • 320134103384101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320134103384101 26S.32E.21.32311

Lea County, New Mexico Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83 Land-surface elevation 3,130 feet above NAVD88 The depth of the well is 405 feet below land surface. The depth of the hole is 405 feet below land surface. This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Dockum Group (231DCKM) local aquifer.

Output formats

Table of data
Tab-separated data
<u>Graph of data</u>
Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum
1993-06-16		D	62610		2723.41
1993-06-16		D	62611		2725.00
1993-06-16		D	72019	405.00	
2013-01-16	19:10 UTC	m	62610		2906.47
2013-01-16	19:10 UTC	m	62611		2908.06
2013-01-16	19:10 UTC	m	72019	221.94	

Explanation											
Section	Code	Description									
Water-level date-time accuracy	D	Date is accurate to the Day									
Water-level date-time accuracy	m	Date is accurate to the Minute									

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Section	Code	Description						
Parameter code	62610	Groundwater level above NGVD 1929, feet						
Parameter code	62611	Groundwater level above NAVD 1988, feet						
Parameter code	72019	Depth to water level, feet below land surface						
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988						
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929						
Status	1	Static						
Status	Р	Pumping						
Method of measurement	L	Interpreted from geophysical logs.						
Method of measurement	S	Steel-tape measurement.						
Measuring agency		Not determined						
Measuring agency	USGS	U.S. Geological Survey						
Source of measurement		Not determined						
Source of measurement	S	Measured by personnel of reporting agency.						
Water-level approval status	A	Approved for publication Processing and review completed.						

Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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USA.gov

Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer



New Mexico Office of the State Engineer Point of Diversion Summary

							NW 2: malles		=SW 4=SI aest)	,	JTM in me	eters)	
Well Tag	Р	OD Number		•••					Rng	•	(Y Y	
-	С	03595 POD1		4	2	3	21	26S	32E	624423	3 3544	045	2
Driller Licens		1654 SIRMAN, JOHN		ler Co	omp	any			ORKINO IRUC	G FOR H	IRESIF	RMAN	
Drill Start Da	te:	09/30/2013	Dril	l Fini	sh C)ate	:	09/	30/2013	B Plu	g Date:		
Log File Date	: :	10/29/2013	PCW Rcv Date: Pipe Discharge Size:						Source:				Shallow
Pump Type:									Est	Estimated Yield:			
Casing Size:		6.00	Depth Well:			280 feet			De	Depth Water:		180 feet	
w	/ate	er Bearing Stratific	atior	ns:	Т	ор	Bott	tom	Descrij	ption			
				160				200 Sandstor		one/Grav	one/Gravel/Conglome		te
		Casing Perfo	ratio	ns:	Т	ор	Bott	tom					
					2	200		240					

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

					-	RECORD												
		Start: 12:39			NO	g	PID READING						SA	MP	LE	RE	REMARKS	
GEOLOGIC UNIT	DEPTH	Finish: 14 DES	4:32 CRIPTION LI	THOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	2 4			12 14	16	18	NUMBER	PID READING	RECOVERY	BACK PID F SOIL :	GROUND READING	
	0	Silty Sar Red, Ver Poorly S with Cali	ry Fine Gra orted,Grai che below , Quartz Sa	White, Fill 6, Yellowish ained Quartz, n Imbedded v 5', White, and, Medium	SM												- - - - - - - - - - - - - - - - - - -	
	20	Very Fin Rounded Reddish Yellowis 20', Dry	e Grained d, Poorly S Brown, 5 h Red, 5Y										2		2	0 12:47		
	35	Indurate Moderate Sandsto Hard at 3	d, 5YR 7/0 ely Hard ne Harder 35'-40', Fir ined Quar), Pink, Below 30',	Sand Stone													
	40 45 50	Red, Ve	ry Fine Gra	2.5YR 4/6, ained, Poorly emented, Dry									3			- 13:19 - 13:39		
	50 55 60 65 65	Thin Sar)' Interbed adstone Be ely Hard, [eds,	Shale								4		6	0 13.39		
	ONE CONTINUOUS AUGER SAMPLER WATER TAB ONE CONTINUOUS AUGER SAMPLE UNDISTURBED SAMPLE WATER TABLE (24 HRS) NR NO RECOVE						HO LO	JOB NUMBER : <u>Chevron/ 20-0107-23</u> HOLE DIAMETER : <u>5</u> " LOCATION : <u>Malestorm 15-1 SWD 103°39'35.87"</u> LAI GEOLOGIST : <u>M. Larson</u>							°2'28.43"N,			
Aarson & ssociates, T Environmental Consulta	nc.	\sim	DRILL DATE : 10/12	2/2022		NUMBER : 1-1					NTR THO						igh Drilling	

						PID READING						A N 4 -			REMARKS	
		Start: 12	2:39		l oi	8 L		PID	REA	DIN	G	S	AMF			
GEOLOGIC	DEPTH	Finish: 14	4:32		SCS	2	PPN	νм	(_ ~	PID READING	RECOVERY	BAC	
UNIT			CRIPTION LITHO		DESCRIPTION USCS	GRAPHIC LOG	2 4 6 8 10 12 14 16 18					NUMBER	EAL			READING
		DLSC		LUGIC	DE	GR/							DR	ŬЦ	L SOIL:-	
	70	Sandstor	ne, 2.5YR 5/9,	Reddish		··· · ··		+			+					
	_		ery Fine Grair		Sand											
			and,Poorly Sc		Stone											
	75—		oderate, Well		<u> </u>											
	_	Cemente		/	(· ·										
	_	Shale (R	ed Bed), 2.5Y	R 4/6 to		· ·										
	80 —	5/6, Red	to Reddish Br	own,		· ·						5			13:	56
	_		y Fine Graine	d Quartz		· ·						5				
	_	Sand, Dr	у		Shale	· ·										
	85 —					· ·										
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	115					<u> </u>										
	_		TD: 115'													
	120—															
	_															
	125															
	_															
	130															
	_															
	_															
												Che	Vro	$\frac{1}{n/2}$	 20_01	07-23
					BLE (TIME	OF BORING)		JOB NUMBER : Chevron/ 20-0107-23 HOLE DIAMETER : 5"								
STANDARD PENETRATION TEST						OCATION		32°2'28.43"N								
	UNDISTURBED SAMPLE + PENETROMET							LOCATION : <u>Malestorm 15-1 SWD 103°39'35.87"</u> LAI GEOLOGIST : <u>M. Larson</u>								
	DISTURBE			WATER TABLE (24 HRS) NR NO RECOVERY						-		N / I	C			
			NR DRILL DATE :	NO RECOV	ERY											ough Drill

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APPENDIX B

Photographic Log




APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 7/17/2023
				C				Site Name: Buck Federal CTB	,
			N	2	OL			Incident Number: NAPP2315731	307
								Job Number: 03D2024199	
	I	ITHOL	OGIO	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
Coordir	nates: 32							Hole Diameter:	Total Depth: 4'
Comme	ents: Field	d screeni	ng co	nducted wi	ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respe	ctively. Chloride test
perform	ned with	1:4 dilut	ion fa	actor of soil	to distilled	water. No co	orrection	factors included. ND: Non Detect	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Damp Damp		2764 2619	N	BH01A				Caliche: gray, tan, some gr SAA (same as above)	avel, hydrocarbon odor
Damp	ND	946	N			3	SP-SM	Sand: orange - brown, fine graded, few subround grav hydrocarbon odor	grain, poorly vel, some caliche,
Damp	ND	510	Ν	BH01D	4	4	SP-SM	SAA	
						TD (refus	al) at 4	feet bgs	

								Sample Name: BH02	Date: 7/17/2023
				C				Site Name: Buck Federal CTB	
				3	ΟΙ			Incident Number: NAPP23157313	307
								Job Number: 03D2024199	
		LITHOL	OGI	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
		2.037601,						Hole Diameter:	Total Depth: 3'
			-					ID for chloride and vapor, respect actors included. ND: Non Detect	ively. Chloride test
Moisture	Chloride (nnm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
≥ C Dam Dam	p ND p ND	0 0 0	N N	вно2а вно2с			CHHE SP-SM	Caliche: tan, dark tan, some Sand: orange - brown, med graded, few subround grav odor <u>SAA (same as above)</u> TD at 3 feet bgs	lium to fine grain, poorly
						- - - - - - - - - - - - - - - - - - -			

	_							Sample Name: BH03	Date: 7/17/2023
			NI	C	ΟΙ		N	Site Name: Buck Federal CTB	
				2				Incident Number: NAPP2315731	307
								Job Number: 03D2024199	
		LITHOL	DGIC	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
	ates: 32.							Hole Diameter:	Total Depth: 3'
			-					PID for chloride and vapor, respect actors included. ND: Non Detect	tively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Damp Damp	ND	2805 2593 2485	Z Z Z	вноза			СННЕ	Caliche: gray, tan, some gr Caliche: tan, yellowish tan, <u>SAA (same as above)</u> TD (refusal) at 3 feet bgs	

								Sample Name: BH04	Date: 7/17/2023
				C				Site Name: Buck Federal CTB	
				3	ΟΙ			Incident Number: NAPP23157313	07
								Job Number: 03D2024199	
		LITHOL	OGIC	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
Coordir	nates: 32.	037505,-	-103.6	696655				Hole Diameter:	Total Depth: 4'
			-					PID for chloride and vapor, respecti actors included. ND: Non Detect	ively. Chloride test
periorii		1.4 unuti			to distilled v				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
					Ţ	0			
					-	-			
Damp	ND	39.8	Ν	BH04A	1	- 1 -	СННЕ	Caliche: gray, tan, some gra	vel, hydrocarbon odor
Damp	ND	1.9	N	BH04B	2	2	SP-SM	Sand: orange - redish brown poorly graded, few subroun slight hydorcarbon odor	n, medium to fine grain, nd gravel, some caliche,
Damp	ND	3.1	Ν		•	3	CHHE	Caliche: tan, vellowish tan, s odor	slight hydorcarbon
Damp	ND	1.2	Z	BH04D	4		CHHE	SAA (same as above) TD (refusal) at 4 feet bgs	



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 7/1/2024 8:42:39 (AMM)



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 6/20/2023 3:10:09 PM

JOB DESCRIPTION

Buck Federal CTB SDG NUMBER 03D2024199

JOB NUMBER

890-4795-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



5 6

Eurofins Carlsbad

Job Notes

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

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

Authorization

AMER

Generated 6/20/2023 3:10:09 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-4795-1 SDG: 03D2024199

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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	19
Lab Chronicle	22
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

	Definitions/Glossary	
Client: Ensolur Project/Site: Bi	m Job ID: 890-4795 uck Federal CTB SDG: 03D202419	
Qualifiers		2
GC VOA		
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
F1	MS and/or MSD recovery exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low 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		- 1
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	7
%R	Percent Recovery	
CFL	Contains Free Liquid	1
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)	

- MDC Minimum Detectable Concentration (Radiochemistry)
- Method Detection Limit MDL
- ML Minimum Level (Dioxin) MPN Most Probable Number
- Method Quantitation Limit MQL Not Calculated NC
 - Not Detected at the reporting limit (or MDL or EDL if shown)
- ND 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)
- Toxicity Equivalent Quotient (Dioxin) TEQ
- TNTC Too Numerous To Count

Job ID: 890-4795-1 SDG: 03D2024199

Job ID: 890-4795-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4795-1

Receipt

The samples were received on 6/8/2023 8:29 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4795-1), SS02 (890-4795-2), SS03 (890-4795-3), SS04 (890-4795-4), SS05 (890-4795-5), SS06 (890-4795-6) and SS07 (890-4795-7).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-55146 and analytical batch 880-55553 recovered outside control limits for the following analytes: Benzene and Toluene. These analytes were acceptable in the LCS, therefore, the data was qualified and reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-55146 and analytical batch 880-55553 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-55739 and analytical batch 880-55778 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-55739/5-A). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-55159/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4795-1), SS02 (890-4795-2), SS04 (890-4795-4), SS05 (890-4795-5), SS06 (890-4795-6), SS07 (890-4795-7), (890-4794-A-5-C), (890-4794-A-5-D MS) and (890-4794-A-5-E MSD). 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.

Job ID: 890-4795-1 SDG: 03D2024199

Project/Site: Buck Federal CTB **Client Sample ID: SS01**

Date Collected: 06/07/23 13:25 Date Received: 06/08/23 08:29

Sample Depth: 0.5

Client: Ensolum

Lab Sample ID: 890-4795-1

Matrix: Solid

obluene 0.00199 U*+ 0.00199 mg/kg 0603/23 13.04 06/15/23 16.58 1 Kylene & -0.00199 U 0.00199 mg/kg 0603/23 13.04 06/15/23 16.58 1 Kylene & -0.00190 U 0.00199 mg/kg 0603/23 13.04 06/15/23 16.58 1 Kylene & -0.00190 U 0.00398 U 0.00398 mg/kg 0603/23 13.04 06/15/23 16.58 1 Kylene & -0.00398 U 0.00398 mg/kg 0603/23 13.04 06/15/23 16.58 1 Kurcovery Qualifier Limits Prepared Analyzed DIF Ac Addituorobenzene (Surr) 96 70.130 0.00398 mg/kg 06/09/23 13.04 06/15/23 16.58 1 Hethod: TAL SOP Total BTEX - Total BTEX Calculation Result Qualifier RL Unit D Prepared Analyzed DIF Ac otal BTEX <0.00398 U 0.00398 mg/kg 06/19/23 14.05 0/11 Fac otal BTEX <0.00398 U	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzane <0.00199	Benzene	< 0.00199	U *+	0.00199	mg/Kg		06/09/23 13:04	06/15/23 16:58	1
Mylene & p-Xylene <0.00398 U 0.00398 mg/kg 06/09/23 13.04 06/15/23 16:58 1 o-Xylene <0.00398	Toluene	<0.00199	U *+	0.00199	mg/Kg		06/09/23 13:04	06/15/23 16:58	1
o-Xylene <0.00199 U 0.00199 mg/kg 06/09/23 13.04 06/15/23 16.58 1 Xylenes, Total <0.00398	Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/09/23 13:04	06/15/23 16:58	1
Xylenes, Total <0.00398 U 0.00398 mg/Kg 06/09/23 13:04 06/15/23 16:58 1 Surrogate XRecovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bornofuluorobenzene (Surr) 94 70.130 06/09/23 13:04 06/15/23 16:58 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398	m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/09/23 13:04	06/15/23 16:58	1
Surrogate %Recovery Qualifier Limits Prepared Analyzed Dif Fac 4-Bromofluorobenzene (Surr) 94 70.130 06/09/2313.04 06/15/2316.58 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyzed 00/09/2313.04 06/15/2316.58 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398	o-Xylene	<0.00199	U	0.00199	mg/Kg		06/09/23 13:04	06/15/23 16:58	1
4-Bromofiluorobenzene (Surr) 94 70.130 06/09/23 13.04 06/15/23 16.58 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Result Qualifier RL 00.00398 0 06/16/23 12.59 11 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL Unit prepared Analyzed Dil Fac Analyte Result Qualifier RL Unit prepared Analyzed Dil Fac Analyte Result Qualifier RL Unit prepared Analyzed Dil Fac Analyte Result Qualifier RL Unit prepared Analyzed Dil Fac Gasoline Range Organics Result Qualifier RL unit prepared Analyzed Dil Fac Gasoline Range Organics (Over <49.8	Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/09/23 13:04	06/15/23 16:58	1
1.4-Difluorobenzene (Surr) 96 70.130 06/09/23 13:04 06/15/23 16:58 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL 0.00398 Unit Prepared Analyzed 06/16/23 12:59 Dil Fac 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL 49.8 Unit D Prepared Analyzed 06/12/23 14:35 Dil Fac 06/12/23 14:35 Dil Fac 06/11/23 00:27 Dil Fac 06/11/23 00:27 Dil Fac 06/11/23 00:27 Dil Fac 06/09/23 14:05 Oil 1/2/23 01:27 Dil Fac 06/11/23 00:27 Dil Fac 06/09/23 14:05 Oil 1/2/23 01:27 Dil Fac 06/09/23 14:05 Oil 1/2/23 00:27 T 1 Method: SW846 8015 NM - Diesel Range Organics (DVer Casoline Range Organics (Over C49.8 U 49.8 mg/Kg 06/09/23 14:05 06/11/23 00:27 T 1 Diesel Range Organics (Over C40-C28) 49.8 mg/Kg 06/09/23 14:05 06/11/23 00:27 T 1 Surrogate 1-Chlorooctane 1-Chlorooctane 1-Chlorooctane 1-Tephenyl 111 70.130 Dil Fac 06/09/23 14:05 06/11/23 00:27 T 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Resut Qualifier RL 4.98 Unit D Prepared 06/09/23 14:05 Analyzed 06/09/23 14:05 <td>4-Bromofluorobenzene (Surr)</td> <td>94</td> <td></td> <td>70 - 130</td> <td></td> <td></td> <td>06/09/23 13:04</td> <td>06/15/23 16:58</td> <td>1</td>	4-Bromofluorobenzene (Surr)	94		70 - 130			06/09/23 13:04	06/15/23 16:58	1
AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacTotal BTEX<0.00398	1,4-Difluorobenzene (Surr)	96		70 - 130			06/09/23 13:04	06/15/23 16:58	1
Total BTEX<0.00398U0.00398mg/Kg06/16/23 12:591Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) AnalyteResult QualifierRLUnitDPreparedAnalyzed 06/12/23 14:35DII Fac 06/12/23 14:35Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) AnalyteResult QualifierRLUnitDPrepared 06/09/23 14:05Analyzed 06/11/23 00:27DII Fac 06/09/23 14:05Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over<49.8	Method: TAL SOP Total BTEX - 7	Total BTEX Cal	culation						
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <49.8	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
AnalyteResultQualifierRLUnitDPreparedAnalyzedDi FacTotal TPH<49.8	Total BTEX	<0.00398	U	0.00398	mg/Kg			06/16/23 12:59	1
Total TPH <49.8 U 49.8 mg/Kg 06/12/23 14:35 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <49.8	Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <49.8	Analyte			RL	Unit	D	Prepared	Analyzed	Dil Fac
AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacGasoline Range Organics<49.8	Total TPH	<49.8	U	49.8	mg/Kg			06/12/23 14:35	1
Gasoline Range Organics <49.8	Method: SW846 8015B NM - Dies								
(GRO)-C6-C10 Diesel Range Organics (Over <49.8						D			Dil Fac
C10-C28) OI Range Organics (Over C28-C36) <49.8	0 0	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 00:27	1
Oll Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 06/09/23 14:05 06/11/23 00:27 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chiorooctane 142 S1+ 70-130 06/09/23 14:05 06/11/23 00:27 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg D Method: S00/09/23 15:41 1 Chlercted: 06/07/23 13:30 Matrix: Solid Matrix: Solid Matrix: Solid Matrix: Solid Method: SW846 8021B - Volatile Organic Compounds (GC) GC Colog/09	Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 00:27	1
1-Chlorooctane 142 \$1+ 70 - 130 06/09/23 14:05 06/11/23 00:0:27 1 o-Terphenyl 111 70 - 130 06/09/23 14:05 06/11/23 00:27 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg 06/09/23 15:41 1 Client Sample ID: SS02 Lab Sample ID: 890-4795-2 Matrix: Solid Matrix: Solid wate Received: 06/08/23 06/08/23 08:29 Matrix: Solid maple Depth: 0.5 SW846 8021B - Volatile Organic Compounds (GC)	-	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 00:27	1
o-Terphenyl 111 70 - 130 06/09/23 14:05 06/11/23 00:27 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL 0101 Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg 2 06/09/23 15:41 1 Chloride 10: SS02 Tate Collected: 06/07/23 13:30 Tate Received: 06/08/23 08:29 Tample Depth: 0.5 Method: SW846 8021B - Volatile Organic Compounds (GC)	Surrogate			Limits			Prepared	Analyzed	Dil Fac
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg 06/09/23 15:41 1 Chloride 52.4 4.98 mg/Kg D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg 06/09/23 15:41 1 Client Sample ID: SS02 Lab Sample ID: 890-4795-2 Matrix: Solid Date Received: 06/07/23 13:30 Matrix: Solid Date Received: 06/08/23 08:29 Matrix: Solid Method: SW846 8021B - Volatile Organic Compounds (GC) Matrix Color	1-Chlorooctane	142	S1+	70 - 130			06/09/23 14:05	06/11/23 00:27	1
Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 52.4 4.98 mg/Kg 06/09/23 15:41 1 Client Sample ID: SS02 Lab Sample ID: 890-4795-2 Date Collected: 06/07/23 13:30 Matrix: Solid Bample Depth: 0.5 Matrix: Solid Method: SW846 8021B - Volatile Organic Compounds (GC) GC	o-Terphenyl	111		70 - 130			06/09/23 14:05	06/11/23 00:27	1
Chloride 52.4 4.98 mg/Kg 06/09/23 15:41 1 Chloride 52.4 4.98 mg/Kg 06/09/23 15:41 1 Client Sample ID: SS02 Lab Sample ID: 890-4795-2 Lab Sample ID: 890-4795-2 Date Collected: 06/07/23 13:30 Matrix: Solid Date Received: 06/08/23 08:29 Matrix: Solid Gample Depth: 0.5 Method: SW846 8021B - Volatile Organic Compounds (GC)		· · ·	-						
Client Sample ID: SS02 Lab Sample ID: 890-4795-2 Date Collected: 06/07/23 13:30 Matrix: Solid Date Received: 06/08/23 08:29 Matrix: Solid Gample Depth: 0.5 Matrix: Solid			Qualifier			D	Prepared		
Date Collected: 06/07/23 13:30 Matrix: Solid Date Received: 06/08/23 08:29 Matrix: Solid Sample Depth: 0.5 Matrix: Solid Method: SW846 8021B - Volatile Organic Compounds (GC) Matrix: Solid	Chloride	52.4		4.98	mg/Kg			06/09/23 15:41	1
Date Received: 06/08/23 08:29 Sample Depth: 0.5 Method: SW846 8021B - Volatile Organic Compounds (GC)	Client Sample ID: SS02						Lab San	nple ID: 890-	4795-2
ample Depth: 0.5 - Method: SW846 8021B - Volatile Organic Compounds (GC)	Date Collected: 06/07/23 13:30							Matri	x: Solid
Method: SW846 8021B - Volatile Organic Compounds (GC)	Date Received: 06/08/23 08:29								
	Sample Depth: 0.5								
Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac	Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U *+	0.00202	mg/Kg		06/09/23 13:04	06/15/23 18:49	1
Toluene	<0.00202	U *+	0.00202	mg/Kg		06/09/23 13:04	06/15/23 18:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/09/23 13:04	06/15/23 18:49	1
m-Xylene & p-Xylene	0.0107		0.00403	mg/Kg		06/09/23 13:04	06/15/23 18:49	1
o-Xylene	0.00462		0.00202	mg/Kg		06/09/23 13:04	06/15/23 18:49	1
Xylenes, Total	0.0153		0.00403	mg/Kg		06/09/23 13:04	06/15/23 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			06/09/23 13:04	06/15/23 18:49	1

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Released to Imaging: 7/15/20243324233 PM

Client Sample Results

Job ID: 890-4795-1 SDG: 03D2024199

Matrix: Solid

5

Lab Sample ID: 890-4795-2

Client Sample ID: SS02

Project/Site: Buck Federal CTB

Date Collected: 06/07/23 13:30 Date Received: 06/08/23 08:29

Sample Depth: 0.5

Client: Ensolum

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130			06/09/23 13:04	06/15/23 18:49	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0153		0.00403	mg/Kg			06/16/23 12:59	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte								
Total TPH Method: SW846 8015B NM - Die:	<49.9 sel Range Orga		49.9 (GC)	mg/Kg			06/12/23 14:35	
•	<49.9	U	49.9	mg/Kg			06/12/23 14:35	
Total TPH Method: SW846 8015B NM - Die Analyte	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)		D	Prepared 06/09/23 14:05		Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) <u>RL</u> 49.9	Unit mg/Kg	<u>D</u>	06/09/23 14:05	Analyzed 06/11/23 00:48	Dil Fa
Total TPH Method: SW846 8015B NM - Dies	sel Range Orga Result	nics (DRO) Qualifier U	(GC)	Unit	<u>D</u>		Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) <u>RL</u> 49.9	Unit mg/Kg	<u> </u>	06/09/23 14:05	Analyzed 06/11/23 00:48	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga 	nics (DRO) Qualifier U U	(GC) <u>RL</u> 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	06/09/23 14:05 06/09/23 14:05	Analyzed 06/11/23 00:48 06/11/23 00:48	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga <u>Result</u> <49.9 <49.9 <49.9	nics (DRO) Qualifier U U Qualifier	(GC) <u>RL</u> 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u> </u>	06/09/23 14:05 06/09/23 14:05 06/09/23 14:05	Analyzed 06/11/23 00:48 06/11/23 00:48 06/11/23 00:48	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.3	5.03	mg/Kg			06/09/23 15:47	1

Client Sample ID: SS03

Date Collected: 06/07/23 13:35 Date Received: 06/08/23 08:29 Sample Depth: 0.5

Lab Sample ID: 890-4795-3 Matrix: Solid Method: SW846 8021B - Volatile Organic Compounds (GC)

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
< 0.00202	U *+	0.00202	mg/Kg		06/09/23 13:04	06/15/23 19:10	1
<0.00202	U *+	0.00202	mg/Kg		06/09/23 13:04	06/15/23 19:10	1
<0.00202	U	0.00202	mg/Kg		06/09/23 13:04	06/15/23 19:10	1
<0.00404	U	0.00404	mg/Kg		06/09/23 13:04	06/15/23 19:10	1
<0.00202	U	0.00202	mg/Kg		06/09/23 13:04	06/15/23 19:10	1
<0.00404	U	0.00404	mg/Kg		06/09/23 13:04	06/15/23 19:10	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
		70 - 130			06/09/23 13:04	06/15/23 19:10	1
96		70 - 130			06/09/23 13:04	06/15/23 19:10	1
Total BTEX Calo	culation						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
< 0.00404	U	0.00404	mg/Kg			06/16/23 12:59	1
	<0.00202 <0.00202 <0.00202 <0.00404 <0.00202 <0.00404 <i>%Recovery</i> 84 96 Total BTEX Cald Result	 <0.00202 U *+ <0.00202 U <0.00404 U <0.00202 U <0.00404 U <0.00404 U <0.00404 U %Recovery Qualifier 84 96 Total BTEX Calculation Result Qualifier 	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202

Method: SW846 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			06/12/23 14:35	1		

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Client Sample Results

Job ID: 890-4795-1 SDG: 03D2024199

Lab Sample ID: 890-4795-3

Client Sample ID: SS03

Project/Site: Buck Federal CTB

Date Collected: 06/07/23 13:35 Date Received: 06/08/23 08:29

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 01:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 01:09	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			06/09/23 14:05	06/11/23 01:09	1
o-Terphenyl	97		70 - 130			06/09/23 14:05	06/11/23 01:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.8	5.01	mg/Kg			06/09/23 16:03	1

Client Sample ID: SS04

Date Collected: 06/07/23 13:40 Date Received: 06/08/23 08:29

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		06/09/23 13:04	06/15/23 19:30	1
Toluene	<0.00201	U *+	0.00201	mg/Kg		06/09/23 13:04	06/15/23 19:30	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/09/23 13:04	06/15/23 19:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/09/23 13:04	06/15/23 19:30	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/09/23 13:04	06/15/23 19:30	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/09/23 13:04	06/15/23 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			06/09/23 13:04	06/15/23 19:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130			06/09/23 13:04	06/15/23 19:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/16/23 12:59	1

Method: SW846 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			06/12/23 14:35	1
 Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (GC)					

	ser range er ga	(2.10)	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 01:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 01:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			06/09/23 14:05	06/11/23 01:31	1
o-Terphenyl	105		70 - 130			06/09/23 14:05	06/11/23 01:31	1

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Page 50 of 188

		Clier	nt Sample Re	sults				
Client: Ensolum							Job ID: 890	
Project/Site: Buck Federal CTB							SDG: 03D2	202419
Client Sample ID: SS04						Lab San	nple ID: 890-	4795-
Date Collected: 06/07/23 13:40							Matri	ix: Soli
Date Received: 06/08/23 08:29								
Sample Depth: 0.5								
_ Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	52.6		4.97	mg/Kg			06/09/23 16:08	
Client Sample ID: SS05						Lab Sar	nple ID: 890-	4795-
Date Collected: 06/07/23 13:10								ix: Soli
Date Received: 06/08/23 08:29								
Sample Depth: 0.5								
_ Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		06/16/23 17:19	06/19/23 21:12	
Toluene	0.00925		0.00201	mg/Kg		06/16/23 17:19	06/19/23 21:12	
Ethylbenzene	0.0105		0.00201	mg/Kg		06/16/23 17:19	06/19/23 21:12	
m-Xylene & p-Xylene	0.0199		0.00402	mg/Kg		06/16/23 17:19	06/19/23 21:12	
o-Xylene	0.00432		0.00201	mg/Kg		06/16/23 17:19	06/19/23 21:12	
Xylenes, Total	0.0242		0.00402	mg/Kg		06/16/23 17:19	06/19/23 21:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130			06/16/23 17:19	06/19/23 21:12	
1,4-Difluorobenzene (Surr) -	105		70 - 130			06/16/23 17:19	06/19/23 21:12	
- Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0440		0.00402	mg/Kg			06/20/23 12:15	
_ Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	7390		49.9	mg/Kg			06/12/23 14:35	
_ Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	3900		49.9	mg/Kg		06/09/23 14:05	06/11/23 01:52	
(GRO)-C6-C10			40.0			00/00/00 11 05	00/44/00 04 50	
Diesel Range Organics (Over C10-C28)	3490		49.9	mg/Kg		06/09/23 14:05	06/11/23 01:52	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/09/23 14:05	06/11/23 01:52	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane		S1+	70 - 130			06/09/23 14:05	06/11/23 01:52	
o-Terphenyl	84		70 - 130			06/09/23 14:05	06/11/23 01:52	
Method: EPA 300.0 - Anions, Ion	Chromatogram	ohy - Solub	le					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
			·					

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06/09/23 16:24

Chloride

4.96

mg/Kg

59.0

1

RL

0.0400

0.0400

Unit

mg/Kg

mg/Kg

D

Prepared

06/09/23 13:04

06/09/23 13:04

Job ID: 890-4795-1 SDG: 03D2024199

Client Sample ID: SS06

Date Collected: 06/07/23 13:15 Date Received: 06/08/23 08:29

Sample Depth: 0.5

Analyte

Benzene

Toluene

Lab Sample	ID:	890-4795-6

Analyzed

06/15/23 21:34

06/15/23 21:34

Matrix: Solid

Toluene	1.42		0.0400	mg/ng		00/09/23 13.04	00/13/23 21.34	20
Ethylbenzene	0.993		0.0400	mg/Kg		06/09/23 13:04	06/15/23 21:34	20
m-Xylene & p-Xylene	6.63		0.0800	mg/Kg		06/09/23 13:04	06/15/23 21:34	20
o-Xylene	3.99		0.0400	mg/Kg		06/09/23 13:04	06/15/23 21:34	20
Xylenes, Total	10.6		0.0800	mg/Kg		06/09/23 13:04	06/15/23 21:34	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			06/09/23 13:04	06/15/23 21:34	20
1,4-Difluorobenzene (Surr)	70		70 - 130			06/09/23 13:04	06/15/23 21:34	20
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	13.0		0.0800	mg/Kg			06/16/23 12:59	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3380		50.0	mg/Kg			06/12/23 14:35	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1450		50.0	mg/Kg		06/09/23 14:05	06/11/23 02:35	1
Diesel Range Organics (Over C10-C28)	1930		50.0	mg/Kg		06/09/23 14:05	06/11/23 02:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/09/23 14:05	06/11/23 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130			06/09/23 14:05	06/11/23 02:35	1
o-Terphenyl	90		70 - 130			06/09/23 14:05	06/11/23 02:35	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.9		5.03	mg/Kg			06/09/23 16:30	1
lient Sample ID: SS07						Lab Sar	nple ID: 890-	4795-7
ate Collected: 06/07/23 13:20							Matri	x: Solid
ate Received: 06/08/23 08:29								
Sample Depth: 0.5								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00258		0.00200	mg/Kg		06/16/23 17:19	06/19/23 21:33	1
Toluene	0.0269		0.00200	mg/Kg		06/16/23 17:19	06/19/23 21:33	1
Ethylbenzene	0.0184		0.00200	mg/Kg		06/16/23 17:19	06/19/23 21:33	1
m-Xylene & p-Xylene	0.0899		0.00399	mg/Kg		06/16/23 17:19	06/19/23 21:33	1
o-Xylene	0.0201		0.00200	mg/Kg		06/16/23 17:19	06/19/23 21:33	1
Malana Tatal	0.440		0.00200	m all a		00/40/00 47:40	00/40/00 04:00	4

0.00399 06/16/23 17:19 06/19/23 21:33 0.110 mg/Kg 1 **Xylenes**, Total Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 4-Bromofluorobenzene (Surr) 70 - 130 06/16/23 17:19 06/19/23 21:33 108 1

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Client: Ensolum Project/Site: Buck Federal CTB

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

Result Qualifier

<0.0400 U *+

1.42 *+

Released to Imaging: 7/15/2024-3:24:33 PM

Client Sample Results

Job ID: 890-4795-1 SDG: 03D2024199

Client Sample ID: SS07

Project/Site: Buck Federal CTB

Date Collected: 06/07/23 13:20 Date Received: 06/08/23 08:29

Sample Depth: 0.5

Client: Ensolum

Lab Sample ID:	890-4795-7
	Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	124		70 - 130			06/16/23 17:19	06/19/23 21:33	1
- Method: TAL SOP Total BTEX - 1	fotal BTEX Cale	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.158		0.00399	mg/Kg			06/20/23 12:15	1
_ Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11400		49.8	mg/Kg			06/12/23 14:35	1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	• •	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 06/09/23 14:05	Analyzed 06/11/23 02:56	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over	5220		49.8	mg/Kg		06/09/23 14:05	06/11/23 02:56	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/09/23 14:05	06/11/23 02:56	1
						Durant	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzeu	Dirrac
Surrogate 1-Chlorooctane	% Recovery 249		Limits 70 - 130			06/09/23 14:05	06/11/23 02:56	1
						<u> </u>		
1-Chlorooctane	249 74	S1+	70 - 130 70 - 130			06/09/23 14:05	06/11/23 02:56	1
1-Chlorooctane o-Terphenyl	249 74 Chromatograp	S1+	70 - 130 70 - 130	Unit	D	06/09/23 14:05	06/11/23 02:56	1

Client: Ensolum Project/Site: Buck Federal CTB

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID Matrix Spike 880-29648-A-21-G MS 105 98 880-29648-A-21-H MSD Matrix Spike Duplicate 102 110 890-4794-A-1-D MS Matrix Spike 113 92 890-4794-A-1-E MSD Matrix Spike Duplicate 112 101 890-4795-1 SS01 94 96 SS02 890-4795-2 82 102 890-4795-3 SS03 84 96 890-4795-4 SS04 95 103 890-4795-5 SS05 109 105 890-4795-6 SS06 103 70 890-4795-7 SS07 108 124 LCS 880-55146/1-A 98 104 Lab Control Sample LCS 880-55739/1-A Lab Control Sample 92 107 LCSD 880-55146/2-A Lab Control Sample Dup 114 99 LCSD 880-55739/2-A Lab Control Sample Dup 86 110 MB 880-55146/5-A Method Blank 94 111 MB 880-55739/5-A Method Blank 65 S1-101 Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4794-A-5-D MS	Matrix Spike	139 S1+	100
890-4794-A-5-E MSD	Matrix Spike Duplicate	132 S1+	92
890-4795-1	SS01	142 S1+	111
890-4795-2	SS02	131 S1+	99
890-4795-3	SS03	129	97
890-4795-4	SS04	136 S1+	105
890-4795-5	SS05	174 S1+	84
890-4795-6	SS06	153 S1+	90
890-4795-7	SS07	249 S1+	74
LCS 880-55159/2-A	Lab Control Sample	126	98
LCSD 880-55159/3-A	Lab Control Sample Dup	119	91
MB 880-55159/1-A	Method Blank	0.02 S1-	0.009 S1-

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

Page 54 of 188

QC Sample Results

Client: Ensolum Project/Site: Buck Federal CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lat	o Sa	mple	D:	MB	880-55146/5-A

Matrix: Solid Analysis Batch: 55553

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			06/09/23 13:04	06/15/23 13:24	1
1,4-Difluorobenzene (Surr)	111		70 - 130			06/09/23 13:04	06/15/23 13:24	1

Lab Sample ID: LCS 880-55146/1-A Matrix: Solid

Analysis Batch: 55553

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1292		mg/Kg		129	70 - 130	
Toluene	0.100	0.1280		mg/Kg		128	70 - 130	
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.08973		mg/Kg		90	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-55146/2-A

Matrix: Solid

Analysis Batch: 55553							Prep	Batch:	55146
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1364	*+	mg/Kg		136	70 - 130	5	35
Toluene	0.100	0.1345	*+	mg/Kg		134	70 - 130	5	35
Ethylbenzene	0.100	0.1238		mg/Kg		124	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130	14	35
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130	16	35

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

Lab Sample ID: 890-4794-A-1-D MS

Matrix: Solid Analysis Potoby 55552

Analysis Batch: 55553									Prep	Batch: 55146
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U *+ F1	0.0994	0.1241		mg/Kg		125	70 - 130	
Toluene	<0.00202	U *+ F1	0.0994	0.1210		mg/Kg		122	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Method Blank Prep Type: Total/NA

Job ID: 890-4795-1 SDG: 03D2024199

Prep Batch: 55146

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 55146

Client Sample ID: Matrix Spike

Lab Sample ID: 890-4794-A-1-D MS

QC Sample Results

MS MS

0.1127

0.2099

0.09963

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0994

0.199

0.0994

Limits 70 - 130

70 - 130

Client: Ensolum Project/Site: Buck Federal CTB

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 55553

Sample Sample

<0.00202

<0.00404 U

<0.00202 U

113

92

%Recovery

Result Qualifier

U

MS MS

Qualifier

101

Prep Type: Total/NA

Prep Batch: 55146

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

113

106

100

D

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Client Sample ID: Method Blank

06/19/23 13:33

Client Sample ID: Lab Control Sample

06/16/23 17:19

Prep Type: Total/NA

Prep Batch: 55739

Matrix: Solid Analysis Batch: 55553

Lab Sample ID: 890-4794-A-1-E MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 55553									Prep	Batch:	55146	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00202	U *+ F1	0.0996	0.1514	F1	mg/Kg		152	70 - 130	20	35	
Toluene	<0.00202	U *+ F1	0.0996	0.1439	F1	mg/Kg		145	70 - 130	17	35	i
Ethylbenzene	<0.00202	U	0.0996	0.1176		mg/Kg		118	70 - 130	4	35	
m-Xylene & p-Xylene	<0.00404	U	0.199	0.2115		mg/Kg		106	70 - 130	1	35	ï
o-Xylene	<0.00202	U	0.0996	0.1117		mg/Kg		112	70 - 130	11	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-55739/5-A Matrix: Solid Analysis Batch: 55778

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		06/16/23 17:19	06/19/23 13:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/23 17:19	06/19/23 13:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/23 17:19	06/19/23 13:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/23 17:19	06/19/23 13:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/23 17:19	06/19/23 13:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/23 17:19	06/19/23 13:33	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130			06/16/23 17:19	06/19/23 13:33	1

70 - 130

1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-55739/1-A Matrix: Solid Analysis Batch: 55778

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1200		mg/Kg		120	70 - 130	
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2139		mg/Kg		107	70 - 130	

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Prep Type: Total/NA

Prep Batch: 55739

Released to Imaging: 7/15/20243324233 PM

1

Lab Sample ID: LCS 880-55739/1-A

QC Sample Results

Client: Ensolum Project/Site: Buck Federal CTB

Matrix: Solid

Analysis Batch: 55778

Job ID: 890-4795-1 SDG: 03D2024199

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

,, ,			Spike	LCS	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
p-Xylene			0.100	0.1030		mg/Kg		103	70 - 130		
- <i>i</i>	LCS										
Surrogate		Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		70 - 130 70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
Lab Sample ID: LCSD 880-5	5739/2-A					Clie	nt Sam	ple ID:	Lab Contro	ol Sampl	e Du
Matrix: Solid										Type: Tot	
Analysis Batch: 55778										Batch:	
-			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene			0.100	0.1109		mg/Kg		111	70 - 130	8	3
Toluene			0.100	0.09082		mg/Kg		91	70 - 130	14	3
Ethylbenzene			0.100	0.08914		mg/Kg		89	70 - 130	16	3
m-Xylene & p-Xylene			0.200	0.1761		mg/Kg		88	70 _ 130	19	3
o-Xylene			0.100	0.08438		mg/Kg		84	70 - 130	20	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
	86		70 - 130								
4-Bromofluorobenzene (Surr)											
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid	110		70 - 130					Client		: Matrix Type: Tot Batch: #	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid	110	Sample		MS	MS			Client	Prep T	Type: Tot	tal/N
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte	110 A-21-G MS Sample Result	Qualifier	70 - 130 Spike Added	Result	MS Qualifier	Unit	<u>D</u>	Client %Rec	Prep T Prep	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778	110 A-21-G MS Sample	Qualifier	70 - 130 Spike			- <mark>Unit</mark> mg/Kg	<u>D</u>		Prep T Prep %Rec	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte	110 A-21-G MS Sample Result <0.00202 <0.00202	Qualifier U U F1	70 - 130 Spike Added	Result	Qualifier	mg/Kg mg/Kg	D	%Rec	Prep T Prep %Rec Limits	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene	110 A-21-G MS Sample 	Qualifier U U F1	70 - 130 Spike Added 0.0994	Result 0.07259	Qualifier F1	mg/Kg	<u>D</u>	%Rec 73	Prep T Prep %Rec Limits 70 - 130	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene	110 A-21-G MS Sample Result <0.00202 <0.00202	Qualifier U U F1 U F1	70 - 130 Spike Added 0.0994 0.0994	Result 0.07259 0.05404	Qualifier F1 F1	mg/Kg mg/Kg	<u> </u>	%Rec 73 53	Prep T Prep %Rec Limits 70 - 130 70 - 130	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene	110 A-21-G MS	Qualifier U U F1 U F1 U F1 U F1	70 - 130 Spike Added 0.0994 0.0994 0.0994	Result 0.07259 0.05404 0.04604	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg	D	%Rec 73 53 46	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00202	Qualifier U U F1 U F1 U F1 U F1 U F1	70 - 130 Spike Added 0.0994 0.0994 0.0994 0.199	Result 0.07259 0.05404 0.04604 0.08962	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 73 53 46 45	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00202	Qualifier U U F1 U F1 U F1 U F1 U F1 MS	70 - 130 Spike Added 0.0994 0.0994 0.0994 0.199	Result 0.07259 0.05404 0.04604 0.08962	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 73 53 46 45	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00202 MS	Qualifier U U F1 U F1 U F1 U F1 U F1 MS	Spike Added 0.0994 0.0994 0.0994 0.199 0.0994	Result 0.07259 0.05404 0.04604 0.08962	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 73 53 46 45	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00404 <0.00202 MS %Recovery	Qualifier U U F1 U F1 U F1 U F1 U F1 MS	70 - 130 Spike Added 0.0994 0.0994 0.199 0.0994 Limits	Result 0.07259 0.05404 0.04604 0.08962	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 73 53 46 45	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00202 MS %Recovery 98 105	Qualifier U U F1 U F1 U F1 U F1 U F1 MS	70 - 130 Spike Added 0.0994 0.0994 0.0994 0.199 0.0994 0.0994 0.199 0.0994 0.199 0.0994	Result 0.07259 0.05404 0.04604 0.08962	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 73 53 46 45 46	Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot Batch: : 	tal/N 5573
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00202 MS %Recovery 98 105	Qualifier U U F1 U F1 U F1 U F1 U F1 MS	70 - 130 Spike Added 0.0994 0.0994 0.0994 0.199 0.0994 0.0994 0.199 0.0994 0.199 0.0994	Result 0.07259 0.05404 0.04604 0.08962	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 73 53 46 45 46	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot Batch:	blicat
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00202 MS %Recovery 98 105	Qualifier U U F1 U F1 U F1 U F1 U F1 MS	70 - 130 Spike Added 0.0994 0.0994 0.0994 0.199 0.0994 0.0994 0.199 0.0994 0.199 0.0994	Result 0.07259 0.05404 0.04604 0.08962	Qualifier F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 73 53 46 45 46	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Dike Dup	blicat
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A	110 A-21-G MS Sample Result <0.00202 <0.00202	Qualifier U U F1 U F1 U F1 U F1 WS Qualifier	Spike Added 0.0994 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994	Result 0.07259 0.05404 0.04604 0.08962 0.04582	Qualifier F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 73 53 46 45 46	Prep T Prep %Rec Limits 70 - 130 70 - 130	Type: Tot Batch:	blicat tal/N 5573
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778	110 A-21-G MS Result 	Qualifier U U F1 U F1 U F1 U F1 MS Qualifier	70 - 130 Spike Added 0.0994 0.0994 0.199 0.0994 <u>Limits</u> 70 - 130 70 - 130 70 - 130	Result 0.07259 0.05404 0.04604 0.08962 0.04582	Qualifier F1 F1 F1 F1 F1 MSD	mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 73 53 46 45 46	Prep T Prep %Rec Limits 70 - 130 70 - 190 %Rec	Dike Dup Dike Dup Dype: Tot Dig Batch: 1	blicati tal/N 5573 Plicati tal/N 5573 RP
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte	110 A-21-G MS Result <l< td=""><td>Qualifier U U F1 U F1 U F1 U F1 MS Qualifier Sample Qualifier</td><td>70 - 130 Spike Added 0.0994 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 Spike Added</td><td>Result 0.07259 0.05404 0.04604 0.08962 0.04582</td><td>Qualifier F1 F1 F1 F1 F1</td><td>mg/Kg mg/Kg mg/Kg mg/Kg Cl</td><td></td><td>%Rec 73 53 46 45 46 45 46</td><td>Prep T Prep %Rec Limits 70 - 130 70 - 190 %Rec Limits</td><td>Dike Dup</td><td>blicat tal/N 5573 5573 5573 tal/N 5573 RP Lim</td></l<>	Qualifier U U F1 U F1 U F1 U F1 MS Qualifier Sample Qualifier	70 - 130 Spike Added 0.0994 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 Spike Added	Result 0.07259 0.05404 0.04604 0.08962 0.04582	Qualifier F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl		%Rec 73 53 46 45 46 45 46	Prep T Prep %Rec Limits 70 - 130 70 - 190 %Rec Limits	Dike Dup	blicat tal/N 5573 5573 5573 tal/N 5573 RP Lim
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene	110 A-21-G MS	Qualifier U F1 U F1 U F1 U F1 MS Qualifier U	70 - 130 Spike Added 0.0994 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 5000000000000000000000000000000000000	Result 0.07259 0.05404 0.04604 0.08962 0.04582	Qualifier F1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl	ient Sa	%Rec 73 53 46 45 46 45 46 %Rec 76	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9	Dike Dup Dike Dup Dype: Tot Distance: RPD	blicat tal/N 5573 blicat tal/N 5573 RP Lim
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene	110 A-21-G MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00202 <0.00202 <i>MS</i> <i>%Recovery</i> 98 105 A-21-H MSD Sample Result <0.00202 <0.00202 <0.00202 <0.00202 	Qualifier U F1 U F1 U F1 U F1 MS Qualifier U U U F1	70 - 130 Spike Added 0.0994 0.0994 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 Spike Added 0.0996 0.0996	Result 0.07259 0.05404 0.04604 0.08962 0.04582 MSD Result 0.07523 0.05349	Qualifier F1 F1 F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 73 53 46 45 46 45 46 45 46 53	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep T Prep T Prep %Rec Limits 70 - 130 70 - 130	Dike Dup Type: Tot Dike Dup Type: Tot Distance: State Distance: State Distate Distance: State	blicat tal/N. 5573 Dlicat tal/N. 5573 RP Lim 3 3
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-29648-A Matrix: Solid Analysis Batch: 55778 Analyte Benzene	110 A-21-G MS	Qualifier U U F1 U F1 U F1 U F1 MS Qualifier U U F1 U F1 U F1	70 - 130 Spike Added 0.0994 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 0.199 0.0994 5000000000000000000000000000000000000	Result 0.07259 0.05404 0.04604 0.08962 0.04582	Qualifier F1 F1 F1 F1 F1 F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl	ient Sa	%Rec 73 53 46 45 46 45 46 %Rec 76	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9	Dike Dup Type: Tot Dike Dup Type: Tot Distance: State Batch: State RPD 4	blicat

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Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 55739

Released to Imaging: 7/15/20243324233 PM

QC Sample Results

Client: Ensolum Project/Site: Buck Federal CTB

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

Lab Sample ID: 880-29648-A-2 Matrix: Solid								Cile	111 3	ample iD.	Matrix Sp Prep Ty		
Analysis Batch: 55778												Batch:	
0	MSD			1									
Surrogate	%Recovery 102	Qua	lifier	Limits 70 - 130									
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	102			70 - 130 70 - 130									
ethod: 8015B NM - Diese		ar	nics (DR										
_ab Sample ID: MB 880-55159/		<u>J</u>	(/(/						Client Sa	ample ID: N	lethod	Blan
Matrix: Solid											Prep Ty	pe: To	otal/N
Analysis Batch: 55207											Prep	Batch:	5515
-		ΜВ	МВ										
Analyte	Re	sult	Qualifier	RL		Un	it	D	Р	repared	Analyze	d	Dil Fa
Gasoline Range Organics		50.0	U	50.0		mg	/Kg	_	06/0	9/23 14:05	06/10/23 2	0:02	
GRO)-C6-C10						-							
Diesel Range Organics (Over	<	50.0	U	50.0		mg	/Kg		06/0	9/23 14:05	06/10/23 2	0:02	
C10-C28)		F0 0		50.0			11/		00/0	0/00 44 05	00140100 0	0.00	
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0		mg	/Kg		06/0	9/23 14:05	06/10/23 2	0:02	
		ΜВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits					P	Prepared	Analyze	ed	Dil Fa
1-Chlorooctane		0.02	S1-	70 - 130					06/0)9/23 14:05	06/10/23 2		
p-Terphenyl	0	.009	S1-	70 - 130					06/0	9/23 14:05	06/10/23 2	0:02	
/atrix: Solid Analysis Batch: 55207				Spille	1.00	1.05						ype: To Batch:	
A marked a				Spike		LCS			_	0/ D	%Rec		
Analyte				Added	928.0	Qualifier				93	Limits 70 - 130		
Gasoline Range Organics /GRO)-C6-C10				1000	920.0		mg/Kg			93	70 - 130		
Diesel Range Organics (Over				1000	877.0		mg/Kg			88	70 - 130		
C10-C28)							0 0						
	LCS	100											
Surrogata				Limito									
Surrogate 1-Chlorooctane	%Recovery 126	Qua		Limits 70 - 130									
o-Terphenyl	98			70 - 130 70 - 130									
	90			70 - 730									
Lab Sample ID: LCSD 880-551	59/3-A						CI	ient	San	nple ID: L	ab Control	Samp	le Du
Matrix: Solid										•	Prep Ty	-	
Analysis Batch: 55207												Batch:	
-				Spike	LCSD	LCSD					%Rec		RF
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lin
Gasoline Range Organics GRO)-C6-C10				1000	915.1		mg/Kg			92	70 - 130	1	:
Diesel Range Organics (Over C10-C28)				1000	906.0		mg/Kg			91	70 - 130	3	
	LCSD	LCS	D										
Surrogate		Qua		Limits									
1-Chlorooctane	119			70 - 130									
	113												

91

70 - 130

Page 16 of 30

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o-Terphenyl

Job ID: 890-4795-1 SDG: 03D2024199 Lab Sample ID: 890-4794-A-5-D MS

QC Sample Results

MS MS

1241

957.0

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

121

90

Spike

Added

998

998

Limits 70 - 130

70 - 130

Client: Ensolum Project/Site: Buck Federal CTB

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 55207

Gasoline Range Organics

Diesel Range Organics (Over

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

Sample Sample

MS MS

139 S1+

%Recovery Qualifier

100

<49.9 U

55.5

Result Qualifier

Prep Type: Total/NA

Prep Batch: 55159

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

5
7
8
9

Lab Sample ID: 890-4794-A- Matrix: Solid Analysis Batch: 55207	-5-E MSD					C	Client Sa	ample IC		oike Dup Type: To Batch:	tal/NA
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1148		mg/Kg		112	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	55.5		999	900.3		mg/Kg		85	70 - 130	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	132	S1+	70 - 130								
o-Terphenyl	92		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55047/1-A Matrix: Solid Analysis Batch: 55167									Client	Sample ID: M Prep Ty		
	MB	MB										
Analyte	Result	Qualifier		RL		Unit		D	Prepared	Analyzed	ł	Dil Fac
Chloride	<5.00	U		5.00		mg/K	g			06/09/23 14	:16	1
Lab Sample ID: LCS 880-55047/2-A								Clier	nt Sampl	e ID: Lab Cor	trol Sa	ample
Matrix: Solid										Prep T	/pe: S	oluble
Analysis Batch: 55167												
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250		255.1		mg/Kg		102	90 - 110		
Lab Sample ID: LCSD 880-55047/3-A							Cli	ient Sa	mple ID:	Lab Control	Sampl	e Dun
Matrix: Solid										Prep T		
Analysis Batch: 55167											, po. 0	
			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		260.5		mg/Kg		104	90 - 110	2	20

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Project/Site: Buck Federal CTB

Client: Ensolum

Job ID: 890-4795-1 SDG: 03D2024199

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4795-2 MS Matrix: Solid									Client Sar Prep	nple ID: Type: S	
Analysis Batch: 55167											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	63.3		252	323.6		mg/Kg		104	90 - 110		
Lab Sample ID: 890-4795-2 MSD									Client Sar	nple ID:	SS02
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 55167											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	63.3		252	332.7		mg/Kg		107	90 - 110	3	20

QC Sample Results

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QC Association Summary

Client: Ensolum Project/Site: Buck Federal CTB

Job ID: 890-4795-1 SDG: 03D2024199

GC VOA

Prep Batch: 55146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4795-1	SS01	Total/NA	Solid	5035	
890-4795-2	SS02	Total/NA	Solid	5035	
890-4795-3	SS03	Total/NA	Solid	5035	
890-4795-4	SS04	Total/NA	Solid	5035	
890-4795-6	SS06	Total/NA	Solid	5035	
MB 880-55146/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55146/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55146/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4794-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4794-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 55553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4795-1	SS01	Total/NA	Solid	8021B	55146
890-4795-2	SS02	Total/NA	Solid	8021B	55146
890-4795-3	SS03	Total/NA	Solid	8021B	55146
890-4795-4	SS04	Total/NA	Solid	8021B	55146
890-4795-6	SS06	Total/NA	Solid	8021B	55146
MB 880-55146/5-A	Method Blank	Total/NA	Solid	8021B	55146
LCS 880-55146/1-A	Lab Control Sample	Total/NA	Solid	8021B	55146
LCSD 880-55146/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55146
890-4794-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	55146
890-4794-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55146

Analysis Batch: 55689

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4795-1	SS01	Total/NA	Solid	Total BTEX	
890-4795-2	SS02	Total/NA	Solid	Total BTEX	
890-4795-3	SS03	Total/NA	Solid	Total BTEX	
890-4795-4	SS04	Total/NA	Solid	Total BTEX	
890-4795-5	SS05	Total/NA	Solid	Total BTEX	
890-4795-6	SS06	Total/NA	Solid	Total BTEX	
890-4795-7	SS07	Total/NA	Solid	Total BTEX	

Prep Batch: 55739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4795-5	SS05	Total/NA	Solid	5035	
890-4795-7	SS07	Total/NA	Solid	5035	
MB 880-55739/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55739/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55739/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29648-A-21-G MS	Matrix Spike	Total/NA	Solid	5035	
880-29648-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 55778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4795-5	SS05	Total/NA	Solid	8021B	55739
890-4795-7	SS07	Total/NA	Solid	8021B	55739
MB 880-55739/5-A	Method Blank	Total/NA	Solid	8021B	55739
LCS 880-55739/1-A	Lab Control Sample	Total/NA	Solid	8021B	55739
LCSD 880-55739/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55739

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5

Client: Ensolum Project/Site: Buck Federal CTB

GC VOA (Continued)

Analysis Batch: 55778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29648-A-21-G MS	Matrix Spike	Total/NA	Solid	8021B	55739
880-29648-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55739

GC Semi VOA

Prep Batch: 55159

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4795-1	SS01	Total/NA	Solid	8015NM Prep	
890-4795-2	SS02	Total/NA	Solid	8015NM Prep	
890-4795-3	SS03	Total/NA	Solid	8015NM Prep	
890-4795-4	SS04	Total/NA	Solid	8015NM Prep	
890-4795-5	SS05	Total/NA	Solid	8015NM Prep	
890-4795-6	SS06	Total/NA	Solid	8015NM Prep	
890-4795-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-55159/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55159/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55159/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4794-A-5-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4794-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4795-1	SS01	Total/NA	Solid	8015B NM	55159
890-4795-2	SS02	Total/NA	Solid	8015B NM	55159
890-4795-3	SS03	Total/NA	Solid	8015B NM	55159
890-4795-4	SS04	Total/NA	Solid	8015B NM	55159
890-4795-5	SS05	Total/NA	Solid	8015B NM	55159
890-4795-6	SS06	Total/NA	Solid	8015B NM	55159
890-4795-7	SS07	Total/NA	Solid	8015B NM	55159
MB 880-55159/1-A	Method Blank	Total/NA	Solid	8015B NM	55159
LCS 880-55159/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55159
LCSD 880-55159/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55159
890-4794-A-5-D MS	Matrix Spike	Total/NA	Solid	8015B NM	55159
890-4794-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	55159

Analysis Batch: 55335

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4795-1	SS01	Total/NA	Solid	8015 NM	
890-4795-2	SS02	Total/NA	Solid	8015 NM	
890-4795-3	SS03	Total/NA	Solid	8015 NM	
890-4795-4	SS04	Total/NA	Solid	8015 NM	
890-4795-5	SS05	Total/NA	Solid	8015 NM	
890-4795-6	SS06	Total/NA	Solid	8015 NM	
890-4795-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55047

Lab Sample ID 890-4795-1	Client Sample ID	Prep Type Soluble	Matrix	Method	Prep Batch
890-4795-2	SS02	Soluble	Solid	DI Leach	
890-4795-3	SS03	Soluble	Solid	DI Leach	

Job ID: 890-4795-1

SDG: 03D2024199

QC Association Summary

Client: Ensolum Project/Site: Buck Federal CTB

HPLC/IC (Continued)

Leach Batch: 55047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4795-4	SS04	Soluble	Solid	DI Leach	
890-4795-5	SS05	Soluble	Solid	DI Leach	
890-4795-6	SS06	Soluble	Solid	DI Leach	
890-4795-7	SS07	Soluble	Solid	DI Leach	
MB 880-55047/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-55047/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-55047/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-4795-2 MS	SS02	Soluble	Solid	DI Leach	
390-4795-2 MSD	SS02	Soluble	Solid	DI Leach	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4795-1	SS01	Soluble	Solid	300.0	55047
890-4795-2	SS02	Soluble	Solid	300.0	55047
890-4795-3	SS03	Soluble	Solid	300.0	55047
890-4795-4	SS04	Soluble	Solid	300.0	55047
890-4795-5	SS05	Soluble	Solid	300.0	55047
890-4795-6	SS06	Soluble	Solid	300.0	55047
890-4795-7	SS07	Soluble	Solid	300.0	55047
MB 880-55047/1-A	Method Blank	Soluble	Solid	300.0	55047
LCS 880-55047/2-A	Lab Control Sample	Soluble	Solid	300.0	55047
LCSD 880-55047/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55047
890-4795-2 MS	SS02	Soluble	Solid	300.0	55047
890-4795-2 MSD	SS02	Soluble	Solid	300.0	55047

Eurofins Carlsbad

Job ID: 890-4795-1 SDG: 03D2024199

5

9

Job ID: 890-4795-1 SDG: 03D2024199

Lab Sample ID: 890-4795-1 Matrix: Solid

Lab Sample ID: 890-4795-2

Lab Sample ID: 890-4795-3

Lab Sample ID: 890-4795-4

Matrix: Solid

Matrix: Solid

Date Collected: 06/07/23 13:25 Date Received: 06/08/23 08:29

Client Sample ID: SS01

Project/Site: Buck Federal CTB

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	55146	06/09/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/15/23 16:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55689	06/16/23 12:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55335	06/12/23 14:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55159	06/09/23 14:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/11/23 00:27	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	55047	06/08/23 14:20	KS	EET MID
Soluble	Analysis	300.0		1			55167	06/09/23 15:41	СН	EET MID

Client Sample ID: SS02

Date Collected: 06/07/23 13:30

Date Received: 06/08/23 08:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	55146	06/09/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/15/23 18:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55689	06/16/23 12:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55335	06/12/23 14:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55159	06/09/23 14:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/11/23 00:48	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	55047	06/08/23 14:20	KS	EET MID
Soluble	Analysis	300.0		1			55167	06/09/23 15:47	СН	EET MID

Client Sample ID: SS03

Date Collected: 06/07/23 13:35 Date Received: 06/08/23 08:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	55146	06/09/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/15/23 19:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55689	06/16/23 12:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55335	06/12/23 14:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	55159	06/09/23 14:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/11/23 01:09	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	55047	06/08/23 14:20	KS	EET MID
Soluble	Analysis	300.0		1			55167	06/09/23 16:03	СН	EET MID

Client Sample ID: SS04 Date Collected: 06/07/23 13:40 Date Received: 06/08/23 08:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	55146	06/09/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/15/23 19:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55689	06/16/23 12:59	AJ	EET MID

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Matrix: Solid

Released to Imaging: 7/15/20243324233 PM

Job ID: 890-4795-1 SDG: 03D2024199

Lab Sample ID: 890-4795-4 Matrix: Solid

Lab Sample ID: 890-4795-5

Date Collected: 06/07/23 13:40 Date Received: 06/08/23 08:29

Client Sample ID: SS04

Project/Site: Buck Federal CTB

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			55335	06/12/23 14:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55159	06/09/23 14:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/11/23 01:31	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	55047	06/08/23 14:20	KS	EET MID
Soluble	Analysis	300.0		1			55167	06/09/23 16:08	СН	EET MID

Client Sample ID: SS05 Date Collected: 06/07/23 13:10

Date Received: 06/08/23 08:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	55739	06/16/23 17:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55778	06/19/23 21:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55689	06/20/23 12:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55335	06/12/23 14:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55159	06/09/23 14:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/11/23 01:52	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	55047	06/08/23 14:20	KS	EET MID
Soluble	Analysis	300.0		1			55167	06/09/23 16:24	СН	EET MID

Client Sample ID: SS06

Date Collected: 06/07/23 13:15 Date Received: 06/08/23 08:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	55146	06/09/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	55553	06/15/23 21:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55689	06/16/23 12:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55335	06/12/23 14:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55159	06/09/23 14:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/11/23 02:35	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	55047	06/08/23 14:20	KS	EET MID
Soluble	Analysis	300.0		1			55167	06/09/23 16:30	СН	EET MID

Client Sample ID: SS07

Date Collected: 06/07/23 13:20 Date Received: 06/08/23 08:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	55739	06/16/23 17:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55778	06/19/23 21:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55689	06/20/23 12:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55335	06/12/23 14:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	55159	06/09/23 14:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/11/23 02:56	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-4795-6

Lab Sample ID: 890-4795-7

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 890-4795-1 SDG: 03D2024199

Client Sample ID: SS07 Date Collected: 06/07/23 13:20

Project/Site: Buck Federal CTB

Client: Ensolum

Date Received: 06/08/23 08:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	5
Soluble	Leach	DI Leach			4.98 g	50 mL	55047	06/08/23 14:20	KS	EET MID	
Soluble	Analysis	300.0		5			55167	06/09/23 16:35	СН	EET MID	

Laboratory References:

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

Lab Sample ID: 890-4795-7 Matrix: Solid

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: Buck Federal CTB

Laboratory: Eurofins Midland

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

uthority		rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, but	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not c	ffer certification.			
the agency does not o Analysis Method	ffer certification . Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

SDG: 03D2024199

Page 67 of 188

10

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: Buck Federal CTB Job ID: 890-4795-1 SDG: 03D2024199

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	STM International		
	Environmental Protection Agency		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	tion, November 1986 And Its Updates.	
TAL SOP :	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R			
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Eurofins Carlsbad

Released to Imaging: 7/15/2024/3324233 PM

Sample Summary

Job ID: 890-4795-1
SDG: 03D2024199

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
390-4795-1	SS01	Solid	06/07/23 13:25	06/08/23 08:29	0.5
390-4795-2	SS02	Solid	06/07/23 13:30	06/08/23 08:29	0.5
390-4795-3	SS03	Solid	06/07/23 13:35	06/08/23 08:29	0.5
390-4795-4	SS04	Solid	06/07/23 13:40	06/08/23 08:29	
390-4795-5	SS05	Solid	06/07/23 13:10	06/08/23 08:29	
390-4795-6 390-4795-7	SS06 SS07	Solid Solid	06/07/23 13:15 06/07/23 13:20	06/08/23 08:29 06/08/23 08:29	

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Environment Testing

Xenco

6/20/2023

Work Order No:

Page 28 of 30

Released to Imaging: 7/15/2024.3324233 PMI

	T					-			lun .	1											enco.co		monte		
Project Manager:		e Green			Bill to: (if different)					Kalei Jennings						Work Order Comments									
Company Name:	Enso	lum LLC		Company Name:):	Ensolum LLC								Program: UST/PST PRP Brownfields RRC Superfunct State of Project:								
Address:	3122	Nationa	Parks H	Parks Hwy Address:																_					
City, State ZIP:	Carls	bad, NM	88220			City, Sta	te ZIP:										Reporting: Level IILevel III PST/UST TRRP								
Phone:	432-5	557-8895	5		Email:	hgreen	@enso	lum.co	om, kje	ennin	gs@e	nsolum	.com				Deliver	ables:	EDD		AD	aPT 🗆	Ot	her:	
Project Name:	Buck	Federal	СТВ		Turr	Around								ANAL	YSIS	REQU	EST						Prese	rvative Codes	
Project Number:	03D2	024199			Routine	🗌 Rush	1	Pres. Code														None: NO DI Wat			
Project Location:	32.03	377, -103	6965		Due Date:	5 D	av															Coc	ol: Cool	MeOH: Me	
Sampler's Name:	-	i Hayes			TAT starts th	e day rece	ived by															нсі	L: HC	HNO3: HN	
Cost Center #:					the lab, if red	ceived by 4	:30pm	2					191		NUL IDUAT	AN CONCILIE	ATTAL AD THE REPORT OF THE RANK AND A				H ₂ S0 ₄ : H ₂ NaOH: Na				
SAMPLE RECE	IPT	Temp	Blank:	Yes No	Wet Ice:	Ter les	No	Parameters	6						li ta t		l III					H₃P	PO₄: HP		
Samples Received	Intact:	Ves	No	Thermometer	er ID:	TOM.	007	Ian	300													NaHSO₄: NABIS			
Cooler Custody Sea	ls:	Yes N	IO (N/A)	Correction F	actor:	-T).7	å	PA:				111								1	2S2O3: Na			
Sample Custody Se	als:	Yes N	IO WA	Temperature	e Reading:	2	·le		S (E				890	0-4795	5 Chair	n of Cu	stody					Zn Acetate+NaOH: Zn			
Total Containers:				Corrected To	emperature:	1	2.4		EDE				I	1	1	E F	1	1	1	1		Nac)H+Asco	orbic Acid: SAPC	
Sample Ide	CEIPT Temp Blank: Yes No Wet Ice: Yes No ed Intact: Yes No Thermometer ID: I ∩ ∩ →DO7 Seals: Yes No N/A Correction Factor: - D, - Seals: Yes No V/A Temperature Reading: - D, - : Corrected Temperature: - D, - - - Identification Matrix Date Time Depth Grab/ Comp # of									Samp	le Comments														
SS	01		S	6/7/2023	1325	0.5	Grab	1	X	Х	X														
SS	02		S	6/7/2023	1330	0.5	Grab	1	X	X	X											_			
SS	03		S	6/7/2023	1335	0.5	Grab	1	Х	X	X														
SS	04		S	6/7/2023	1340	0.5	Grab	1	X	X	X														
SS	05		S	6/7/2023	1310	0.5	Grab	1	X	X	X														
SS	06		S	6/7/2023	1315	0.5	Grab	1	Х	X	X														
SS	07		S	6/7/2023	1320	0.5	Grab	1	X	X	X					_			_						
																			_						
																					_				
												_													
Total 200.7 / 6	010	200.8/	6020:	8	RCRA 13	PPM Te	xas 11	AI	Sb As	Ba	Be B	Cd C	a Cr	Co C	u Fe	Pb M	g Mr	Mol	Ni K	Se A	g SiO ₂	Na Si	r TI Sn	U V Zn	
Circle Method(s) a		tal(s) to	be analy		TCLP / S																			0 / 7471	
otice: Signature of this	docume	nt and relin	quishment	of samples con	d shall not ass	ume any re	enonsihil	lity for a	ny loss	es or ex	nenses	incurred	by the c	client if a	such los	ses are (due to d	ircumsta	nces b	eyond t	he contro	l ted.			
of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a char Relinguished by: (Signature) Received by: (Signature)						/Time						gnature					: (Signa			Date/Time					
- Worda.	. (oigi		D.		la 2-	FF	-	Tot o	2/2	-	DB						-								
				MA -	Xn D	un		WIY	Id	2	VOU														

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

Job Number: 890-4795-1 SDG Number: 03D2024199

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4795 List Number: 1 Creator: Stutzman, Amanda

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

14

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4795 List Number: 2 Creator: Rodriguez, Leticia

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	N/A	

Job Number: 890-4795-1 SDG Number: 03D2024199

List Source: Eurofins Midland List Creation: 06/09/23 10:21 AM

14
Received by OCD: 7/1/2024 8:42:39 (AMM)



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 7/31/2023 3:24:44 PM

JOB DESCRIPTION

Buck Federal CTB SDG NUMBER 03D2024199

JOB NUMBER

890-4955-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220





Eurofins Carlsbad

Job Notes

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

Authorization

AMER

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Laboratory Job ID: 890-4955-1 SDG: 03D2024199

Page 75 of 188

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	15
QC Sample Results	17
QC Association Summary	23
Lab Chronicle	27
Certification Summary	31
Method Summary	32
Sample Summary	33
Chain of Custody	34
Receipt Checklists	37

Page 76 of 188

	Definitions/Glossary		
Client: Ensolum Project/Site: Bu	n uck Federal CTB	Job ID: 890-4955-1 SDG: 03D2024199	2
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
S1-	Surrogate recovery exceeds control limits, low biased.		5
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			8
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.		
a a	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)		

Toxicity Equivalent Quotient (Dioxin) TNTC Too Numerous To Count

Job ID: 890-4955-1 SDG: 03D2024199

Job ID: 890-4955-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4955-1

Receipt

The samples were received on 7/17/2023 4:04 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 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01A (890-4955-1), BH01D (890-4955-2), BH01F (890-4955-3), BH02A (890-4955-4), BH02C (890-4955-5), BH03A (890-4955-6), BH03C (890-4955-7), BH04A (890-4955-8), BH04B (890-4955-9) and BH04D (890-4955-10).

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01A (890-4955-1), BH01D (890-4955-2), BH01F (890-4955-3), BH02A (890-4955-4), BH02C (890-4955-5), BH03A (890-4955-6), BH03C (890-4955-7), BH04A (890-4955-8), BH04B (890-4955-9) and BH04D (890-4955-10).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01A (890-4955-1) and BH03A (890-4955-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58407 and analytical batch 880-58347 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH03C (890-4955-7). 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 CCV was biased high for gasoline range hydrocarbons. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported. (CCV 880-58792/58)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01A (890-4955-1), BH01D (890-4955-2), BH02C (890-4955-5), BH03A (890-4955-6), BH03C (890-4955-7) and (MB 880-58406/1-A). 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.

Job ID: 890-4955-1 SDG: 03D2024199

Client Sample ID: BH01A

Project/Site: Buck Federal CTB

Date Collected: 07/17/23 09:00

Client: Ensolum

Lab Sample ID: 890-4955-1

Matrix: Solid

5

Date Received: 07/17/23 16:04 Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.202	U	0.202	mg/Kg		07/24/23 17:46	07/25/23 04:28	100
Toluene	3.89		0.202	mg/Kg		07/24/23 17:46	07/25/23 04:28	100
Ethylbenzene	2.19		0.202	mg/Kg		07/24/23 17:46	07/25/23 04:28	10
m-Xylene & p-Xylene	33.5		0.403	mg/Kg		07/24/23 17:46	07/25/23 04:28	10
o-Xylene	9.77		0.202	mg/Kg		07/24/23 17:46	07/25/23 04:28	10
Xylenes, Total	43.3		0.403	mg/Kg		07/24/23 17:46	07/25/23 04:28	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		70 - 130			07/24/23 17:46	07/25/23 04:28	10
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			07/24/23 17:46	07/25/23 04:28	10
Method: TAL SOP Total BTEX - To	otal BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	49.4		0.403	mg/Kg	_		07/25/23 14:35	
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	3000		49.8	mg/Kg	_		07/31/23 16:01	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	• •	Qualifier		Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	1210		49.8	mg/Kg		07/25/23 13:16	07/30/23 23:51	
Diesel Range Organics (Over C10-C28)	1790		49.8	mg/Kg		07/25/23 13:16	07/30/23 23:51	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/25/23 13:16	07/30/23 23:51	
Total TPH	3000		49.8	mg/Kg		07/25/23 13:16	07/30/23 23:51	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	149	S1+	70 - 130			07/25/23 13:16	07/30/23 23:51	
o-Terphenyl	122		70 - 130			07/25/23 13:16	07/30/23 23:51	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.3		5.01	mg/Kg	_		07/20/23 08:49	1
lient Sample ID: BH01D						Lab San	nple ID: 890-	4955-2
ate Collected: 07/17/23 09:15							Matri	ix: Solid
ate Received: 07/17/23 16:04								
ample Depth: 4								
Method: SW846 8021B - Volatile	· ·		·					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	07/19/23 15:10	07/24/23 07:24	1

alyzed Dil Fac
23 07:24 1
23 07:24 1
23 07:24 1
23 07:24 1
23 07:24 1
23 07:24 1

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Job ID: 890-4955-1 SDG: 03D2024199

Matrix: Solid

5

Lab Sample ID: 890-4955-2

Client Sample ID: BH01D

Project/Site: Buck Federal CTB

Date Collected: 07/17/23 09:15 Date Received: 07/17/23 16:04

Sample Depth: 4

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130			07/19/23 15:10	07/24/23 07:24	
1,4-Difluorobenzene (Surr)	72		70 - 130			07/19/23 15:10	07/24/23 07:24	
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0429		0.00399	mg/Kg			07/24/23 17:01	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	80.2		49.6	mg/Kg			07/31/23 16:01	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/25/23 13:16	07/31/23 00:13	
Diesel Range Organics (Over C10-C28)	80.2		49.6	mg/Kg		07/25/23 13:16	07/31/23 00:13	
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/25/23 13:16	07/31/23 00:13	
Total TPH	80.2		49.6	mg/Kg		07/25/23 13:16	07/31/23 00:13	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	131		70 - 130			07/25/23 13:16	07/31/23 00:13	
o-Terphenyl	121		70 - 130			07/25/23 13:16	07/31/23 00:13	
Method: EPA 300.0 - Anions, Ion	1 Chromatoorar	ohy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	115		4.98	mg/Kg			07/20/23 09:05	
lient Sample ID: BH01F						Lab San	nple ID: 890-4	4955-
							•	
ate Collected: 07/17/23 09:30							Matri	x: Soli
ate Collected: 07/17/23 09:30 ate Received: 07/17/23 16:04							Matri	x: Soli
							Matri	x: Soli
ate Received: 07/17/23 16:04 ample Depth: 6	• Organic Comp	oounds (GC))				Matri:	ix: Soli
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile		ounds (GC) Qualifier) RL	Unit	D	Prepared	Matri	
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile Analyte		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 07/24/23 17:46		Dil Fa
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile Analyte Benzene	Result	Qualifier	RL		<u>D</u>	· · · · · · · · · · · · · · · · · · ·	Analyzed	Dil Fa 10
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile Analyte Benzene Toluene	Result <0.200	Qualifier	RL 0.200	mg/Kg	<u>D</u>	07/24/23 17:46	Analyzed 07/25/23 04:48	Dil Fa 10 10
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene	Result <0.200 2.78	Qualifier	RL 0.200 0.200	mg/Kg mg/Kg	D	07/24/23 17:46 07/24/23 17:46	Analyzed 07/25/23 04:48 07/25/23 04:48	Dil Fa 10 10 10
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result <0.200 2.78 0.474	Qualifier U	RL 0.200 0.200 0.200	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/24/23 17:46 07/24/23 17:46 07/24/23 17:46	Analyzed 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48	Dil Fa 10 10 10 10
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene p-Xylene	Result <0.200 2.78 0.474 7.23	Qualifier U	RL 0.200 0.200 0.200 0.401	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	07/24/23 17:46 07/24/23 17:46 07/24/23 17:46 07/24/23 17:46	Analyzed 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48	Dil Fa 10 10 10 10 10
ate Received: 07/17/23 16:04 ample Depth: 6 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result <0.200 2.78 0.474 7.23 1.15	Qualifier U	RL 0.200 0.200 0.200 0.200 0.401 0.200 0.401 0.200 0.401	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	07/24/23 17:46 07/24/23 17:46 07/24/23 17:46 07/24/23 17:46 07/24/23 17:46	Analyzed 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48	Dil Fa 10 10
ate Received: 07/17/23 16:04	Result <0.200	Qualifier U Qualifier	RL 0.200 0.200 0.200 0.200 0.401 0.200 0.401	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	07/24/23 17:46 07/24/23 17:46 07/24/23 17:46 07/24/23 17:46 07/24/23 17:46 07/24/23 17:46	Analyzed 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48 07/25/23 04:48	Dil Fa 10 10 10 10 10 10

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX 0.401 mg/Kg 07/25/23 14:35 11.6 1

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Job ID: 890-4955-1 SDG: 03D2024199

Client Sample ID: BH01F

Project/Site: Buck Federal CTB

Date Collected: 07/17/23 09:30 Date Received: 07/17/23 16:04

Sample Depth: 6

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1930		50.4	mg/Kg			07/31/23 16:01	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	175		50.4	mg/Kg		07/25/23 13:16	07/31/23 00:34	1
Diesel Range Organics (Over C10-C28)	1750		50.4	mg/Kg		07/25/23 13:16	07/31/23 00:34	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/25/23 13:16	07/31/23 00:34	1
Total TPH	1930		50.4	mg/Kg		07/25/23 13:16	07/31/23 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			07/25/23 13:16	07/31/23 00:34	1
o-Terphenyl	104		70 - 130			07/25/23 13:16	07/31/23 00:34	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.5		4.97	mg/Kg			07/20/23 09:10	1
lient Sample ID: BH02A						Lab Sar	nple ID: 890-	4955-4
ate Collected: 07/17/23 10:50							Matri	ix: Solid
ate Received: 07/17/23 16:04								

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:10	07/24/23 08:05	1
Toluene	0.00224		0.00198	mg/Kg		07/19/23 15:10	07/24/23 08:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:10	07/24/23 08:05	1
m-Xylene & p-Xylene	0.00436		0.00396	mg/Kg		07/19/23 15:10	07/24/23 08:05	1
o-Xylene	0.00397		0.00198	mg/Kg		07/19/23 15:10	07/24/23 08:05	1
Xylenes, Total	0.00833		0.00396	mg/Kg		07/19/23 15:10	07/24/23 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			07/19/23 15:10	07/24/23 08:05	1
1,4-Difluorobenzene (Surr)	92		70 - 130			07/19/23 15:10	07/24/23 08:05	1
Method: TAL SOP Total BTEX - Analyte		Culation Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
			RL	Unit	D	Prepared	Analyzed	Dil Fac
			RL 0.00396	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result 0.0106	Qualifier	0.00396	mg/Kg		<u>.</u>	07/24/23 17:01	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	Qualifier	0.00396 GC) RL	mg/Kg Unit	<u>D</u>	Prepared Prepared	07/24/23 17:01	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result 0.0106	Qualifier	0.00396	mg/Kg		<u>.</u>	07/24/23 17:01	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result S9.2	Qualifier ics (DRO) ((Qualifier	0.00396 GC) RL 50.5	mg/Kg Unit		<u>.</u>	07/24/23 17:01	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result Range Organ Result 59.2 sel Range Orga	Qualifier ics (DRO) ((Qualifier	0.00396 GC) RL 50.5	mg/Kg Unit		<u>.</u>	07/24/23 17:01	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result Range Organ Result 59.2 sel Range Orga	Qualifier ics (DRO) ((Qualifier nics (DRO) Qualifier	0.00396 GC) RL 50.5	mg/Kg	<u>D</u>	Prepared	07/24/23 17:01 Analyzed 07/31/23 16:01	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result 59.2 Sel Range Orga Result	Qualifier ics (DRO) ((Qualifier nics (DRO) Qualifier	0.00396 GC) RL 50.5 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared	07/24/23 17:01 Analyzed 07/31/23 16:01 Analyzed	1

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Lab Sample ID: 890-4955-3

Matrix: Solid

5

Client	Sam	ple R	lesults
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Job ID: 890-4955-1
SDG: 03D2024199

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4955-4

Project/Site: Buck Federal CTB **Client Sample ID: BH02A**

Client: Ensolum

Sample Depth: 1

Date Collected: 07/17/23 10:50 Date Received: 07/17/23 16:04

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.2		50.5	mg/Kg		07/25/23 13:16	07/31/23 00:55	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/25/23 13:16	07/31/23 00:55	1
o-Terphenyl	109		70 - 130			07/25/23 13:16	07/31/23 00:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble o lute

Analyte	Result Q	uaimer RL	Unit	U	Prepared	Analyzed	Dirrac	
Chloride	150	5.02	mg/Kg			07/20/23 09:15	1	
Client Sample ID: BH02C					Lab Sa	mple ID: 890-4	4955-5	

Client Sample ID: BH02C

Date Collected: 07/17/23 11:00 Date Received: 07/17/23 16:04

Sample Depth: 3

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		07/19/23 15:10	07/24/23 08:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:10	07/24/23 08:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:10	07/24/23 08:26	1
m-Xylene & p-Xylene	0.00655		0.00404	mg/Kg		07/19/23 15:10	07/24/23 08:26	1
o-Xylene	0.00306		0.00202	mg/Kg		07/19/23 15:10	07/24/23 08:26	1
Xylenes, Total	0.00961		0.00404	mg/Kg		07/19/23 15:10	07/24/23 08:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			07/19/23 15:10	07/24/23 08:26	1
1,4-Difluorobenzene (Surr)	94		70 - 130			07/19/23 15:10	07/24/23 08:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	0.00961	0.00404	mg/Kg			07/24/23 17:01	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7	mg/Kg			07/31/23 16:01	1	

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		07/25/23 13:16	07/31/23 01:37	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		07/25/23 13:16	07/31/23 01:37	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/25/23 13:16	07/31/23 01:37	1
Total TPH	<49.7	U	49.7	mg/Kg		07/25/23 13:16	07/31/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			07/25/23 13:16	07/31/23 01:37	1
o-Terphenyl	132	S1+	70 - 130			07/25/23 13:16	07/31/23 01:37	1

		Clien	it Sample Res	sults				
Client: Ensolum							Job ID: 890)-4955-1
Project/Site: Buck Federal CTB							SDG: 03D2	2024199
Client Sample ID: BH02C						Lab San	nple ID: 890-	4955-5
Date Collected: 07/17/23 11:00							-	ix: Solid
Date Received: 07/17/23 16:04								
Sample Depth: 3								
Method: EPA 300.0 - Anions, Ion Ch	romatograp	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	634		4.95	mg/Kg			07/20/23 09:20	1
Client Sample ID: BH03A						Lab San	nple ID: 890-	4955-6
Date Collected: 07/17/23 12:10							- Matri	ix: Solid
Date Received: 07/17/23 16:04								
Sample Depth: 1								
Method: SW846 8021B - Volatile Org				11-14	-	Description	A so a lo sera al	D!!
Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.499	U	0.499	mg/Kg		07/24/23 17:46	07/25/23 09:34	250
Toluene	1.33		0.499	mg/Kg		07/24/23 17:46	07/25/23 09:34	250
Ethylbenzene	2.10		0.499	mg/Kg		07/24/23 17:46	07/25/23 09:34	250
m-Xylene & p-Xylene	5.91		0.998	mg/Kg		07/24/23 17:46	07/25/23 09:34	250
o-Xylene	3.32		0.499	mg/Kg		07/24/23 17:46	07/25/23 09:34	250
Xylenes, Total	9.23		0.998	mg/Kg		07/24/23 17:46	07/25/23 09:34	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			07/24/23 17:46	07/25/23 09:34	250
1,4-Difluorobenzene (Surr)	95		70 - 130			07/24/23 17:46	07/25/23 09:34	250
Method: TAL SOP Total BTEX - Tota			Ы	Unit	D	Bronorod	Analyzad	Dil Eso
Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.7		0.998	mg/Kg			07/25/23 14:35	1
Method: SW846 8015 NM - Diesel R	ange Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4810		49.6	mg/Kg			07/31/23 16:01	1
Method: SW846 8015B NM - Diesel								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1600		49.6	mg/Kg		07/25/23 13:16	07/31/23 01:59	1
Diesel Range Organics (Over	3210		49.6	mg/Kg		07/25/23 13:16	07/31/23 01:59	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/25/23 13:16	07/31/23 01:59	1
Total TPH	4810		49.6	mg/Kg		07/25/23 13:16	07/31/23 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		S1+	70 - 130			07/25/23 13:16	07/31/23 01:59	1
o-Terphenyl	115		70 - 130			07/25/23 13:16	07/31/23 01:59	1
	,,,,					5		1
Method: EPA 300.0 - Anions, Ion Ch	romatograp	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030	-	25.2	mg/Kg			07/20/23 09:35	5

Job ID: 890-4955-1 SDG: 03D2024199

Client Sample ID: BH03C

Project/Site: Buck Federal CTB

Date Collected: 07/17/23 12:20 Date Received: 07/17/23 16:04

Sample D

Client: Ensolum

Sample Depth: 3								
	rganic Comp	ounds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.662		0.495	mg/Kg		07/24/23 17:46	07/25/23 09:54	250
Toluene	13.3		0.495	mg/Kg		07/24/23 17:46	07/25/23 09:54	250
Ethylbenzene	1.90		0.495	mg/Kg		07/24/23 17:46	07/25/23 09:54	250
m-Xylene & p-Xylene	16.5		0.990	mg/Kg		07/24/23 17:46	07/25/23 09:54	250
o-Xylene	5.63		0.495	mg/Kg		07/24/23 17:46	07/25/23 09:54	250
Xylenes, Total	22.1		0.990	mg/Kg		07/24/23 17:46	07/25/23 09:54	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7	S1-	70 - 130			07/24/23 17:46	07/25/23 09:54	250
1,4-Difluorobenzene (Surr)	6	S1-	70 - 130			07/24/23 17:46	07/25/23 09:54	250
Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	38.0		0.990	mg/Kg			07/26/23 16:39	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24000		250	mg/Kg			07/31/23 16:01	1
Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	14200		250	mg/Kg		07/25/23 13:16	07/31/23 07:30	5
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	9840		250	mg/Kg		07/25/23 13:16	07/31/23 07:30	5
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/25/23 13:16	07/31/23 02:20	1
Total TPH	24100		50.1	mg/Kg		07/25/23 13:16	07/31/23 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	415	S1+	70 - 130			07/25/23 13:16	07/31/23 02:20	1
1-Chlorooctane	415	S1+	70 - 130			07/25/23 13:16	07/31/23 07:30	5
o-Terphenyl	117		70 _ 130			07/25/23 13:16	07/31/23 02:20	1
o-Terphenyl	124		70 - 130			07/25/23 13:16	07/31/23 07:30	5
 Method: EPA 300.0 - Anions, Ion C	Chromatograp	ohy - Solubi	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5670		49.9				07/20/23 09:40	10

Client Sample ID: BH04A

Date Collected: 07/17/23 12:40 Date Received: 07/17/23 16:04 Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 07/19/23 15:10 07/24/23 09:27 mg/Kg 1 0.00200 07/19/23 15:10 07/24/23 09:27 Toluene 0.0102 mg/Kg 1 0.00200 07/19/23 15:10 07/24/23 09:27 Ethylbenzene 0.00299 mg/Kg 1 m-Xylene & p-Xylene 0.0326 0.00399 mg/Kg 07/19/23 15:10 07/24/23 09:27 1 o-Xylene 0.00828 0.00200 mg/Kg 07/19/23 15:10 07/24/23 09:27 1 **Xylenes**, Total 0.0409 0.00399 mg/Kg 07/19/23 15:10 07/24/23 09:27 1

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Matrix: Solid

Lab Sample ID: 890-4955-8

Lab Sample ID: 890-4955-7 Matrix: Solid

5

7/31/2023

Job ID: 890-4955-1 SDG: 03D2024199

Matrix: Solid

5

Lab Sample ID: 890-4955-8

Client Sample ID: BH04A

Project/Site: Buck Federal CTB

Date Collected: 07/17/23 12:40 Date Received: 07/17/23 16:04

Sample Depth: 1

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			07/19/23 15:10	07/24/23 09:27	DIIFa
1,4-Difluorobenzene (Surr)	92		70 - 130 70 - 130			07/19/23 15:10	07/24/23 09:27	
	52							
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0541		0.00399	mg/Kg			07/24/23 17:01	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	359		50.0	mg/Kg			07/31/23 16:01	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	150		50.0	mg/Kg		07/25/23 13:16	07/31/23 02:48	
Diesel Range Organics (Over C10-C28)	209		50.0	mg/Kg		07/25/23 13:16	07/31/23 02:48	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/25/23 13:16	07/31/23 02:48	
Total TPH	359		50.0	mg/Kg		07/25/23 13:16	07/31/23 02:48	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
•	% Recovery 127	Qualifier				Prepared 07/25/23 13:16	Analyzed 07/31/23 02:48	Dil Fa
1-Chlorooctane		Qualifier						Dil Fa
1-Chlorooctane o-Terphenyl	127 119	<u>.</u>	70 - 130 70 - 130			07/25/23 13:16	07/31/23 02:48	
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	127 119 Chromatograp	<u>.</u>	70 - 130 70 - 130	Unit	D	07/25/23 13:16	07/31/23 02:48	
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	127 119 Chromatograp	bhy - Solubl	70 - 130 70 - 130	Unit mg/Kg	<u>D</u>	07/25/23 13:16 07/25/23 13:16	07/31/23 02:48 07/31/23 02:48	
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride	127 119 Chromatograp Result	bhy - Solubl	70 - 130 70 - 130 Ie 		<u>D</u>	07/25/23 13:16 07/25/23 13:16 Prepared	07/31/23 02:48 07/31/23 02:48 Analyzed	Dil Fa
Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Chlo	127 119 Chromatograp Result	bhy - Solubl	70 - 130 70 - 130 Ie 		<u>D</u>	07/25/23 13:16 07/25/23 13:16 Prepared	07/31/23 02:48 07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890	Dil Fa Dil Fa 4955-9
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH04B	127 119 Chromatograp Result	bhy - Solubl	70 - 130 70 - 130 Ie 		<u>D</u>	07/25/23 13:16 07/25/23 13:16 Prepared	07/31/23 02:48 07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890	Dil Fa
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH04B rate Collected: 07/17/23 12:45	127 119 Chromatograp Result	bhy - Solubl	70 - 130 70 - 130 Ie 		<u>D</u>	07/25/23 13:16 07/25/23 13:16 Prepared	07/31/23 02:48 07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890	Dil Fa
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride	127 119 Chromatograp Result 3600	<mark>Dhy - Solubl</mark> Qualifier	70 - 130 70 - 130 10 10 10 10 10 10 10 10 10 10 10 10 10		D	07/25/23 13:16 07/25/23 13:16 Prepared	07/31/23 02:48 07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890	Dil Fa 4955-
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Ilient Sample ID: BH04B ate Collected: 07/17/23 12:45 ate Received: 07/17/23 16:04 ample Depth: 2 Method: SW846 8021B - Volatile	127 119 Chromatograp Result 3600 Organic Comp	ohy - Solubl Qualifier	70 - 130 70 - 130 Ie 	mg/Kg		07/25/23 13:16 07/25/23 13:16 Prepared	07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890- Matri	Dil Fa 4955- x: Soli
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: BH04B ate Collected: 07/17/23 12:45 ate Received: 07/17/23 16:04 ample Depth: 2 Method: SW846 8021B - Volatile Analyte	127 119 Chromatograp Result 3600 Organic Comp Result	ohy - Solubl Qualifier oounds (GC Qualifier	70 - 130 70 - 130 le 	mg/Kg	<u>D</u>	07/25/23 13:16 07/25/23 13:16 Prepared Lab San	07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890- Matri	Dil Fa 4955-
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Ilient Sample ID: BH04B ate Collected: 07/17/23 12:45 ate Received: 07/17/23 16:04 ample Depth: 2 Method: SW846 8021B - Volatile Analyte Benzene	127 119 Chromatograp Result 3600 Organic Comp Result <0.00200	ohy - Solubl Qualifier oounds (GC Qualifier) <u>RL</u> 0.00200	mg/Kg		07/25/23 13:16 07/25/23 13:16 Prepared	07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890- Matri	Dil Fa 4955- x: Soli
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: BH04B ate Collected: 07/17/23 12:45 ate Received: 07/17/23 16:04 ample Depth: 2 Method: SW846 8021B - Volatile Analyte Benzene Toluene	127 119 Chromatograp Result 3600 Organic Comp Result <0.00200	Qualifier Qualifier Qualifier Qualifier) RL 0.00200 70 - 130 RL 0.00200 0.00200 	Unit mg/Kg mg/Kg mg/Kg		07/25/23 13:16 07/25/23 13:16 Prepared Lab San 07/19/23 15:10 07/19/23 15:10	07/31/23 02:48 07/31/23 02:48 07/31/23 02:48 07/20/23 09:46 07/20/23 09:46 Matri 07/24/23 09:47 07/24/23 09:47	 4955- x: Soli
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Ilient Sample ID: BH04B ate Collected: 07/17/23 12:45 ate Received: 07/17/23 16:04 ample Depth: 2 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene	127 119 Chromatograp Result 3600 Organic Comp Result <0.00200	Qualifier Qualifier Qualifier Qualifier	70 - 130 70 - 130 le <u>RL</u> 24.9) <u>RL</u> 0.00200 0.00200 0.00200	mg/Kg Unit mg/Kg mg/Kg mg/Kg		07/25/23 13:16 07/25/23 13:16 Prepared Lab San 07/19/23 15:10 07/19/23 15:10 07/19/23 15:10	07/31/23 02:48 07/31/23 02:48 07/31/23 02:48 Analyzed 07/20/23 09:46 nple ID: 890- Matri 07/24/23 09:47 07/24/23 09:47 07/24/23 09:47	Dil Fa 4955- x: Soli
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Chloride Elient Sample ID: BH04B ate Collected: 07/17/23 12:45 ate Received: 07/17/23 16:04	127 119 Chromatograp Result 3600 Organic Comp Result <0.00200	Dhy - Solubl Qualifier Dounds (GC Qualifier U) RL 0.00200 70 - 130 RL 0.00200 0.00200 	Unit mg/Kg mg/Kg mg/Kg		07/25/23 13:16 07/25/23 13:16 Prepared Lab San 07/19/23 15:10 07/19/23 15:10	07/31/23 02:48 07/31/23 02:48 07/31/23 02:48 07/20/23 09:46 07/20/23 09:46 Matri 07/24/23 09:47 07/24/23 09:47	Dil Fa 4955- x: Soli

Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	
4-Bromofluorobenzene (Surr)	110	70 - 130		-	07/19/23 15:10	07/24/23 09:47	_
1,4-Difluorobenzene (Surr)	93	70 - 130			07/19/23 15:10	07/24/23 09:47	
	TEX - Total BTEX Calculation			_			
Δnalvto	Result Qualifier	RI	Unit	п	Prenared	Analyzod	

Analyte	Result	Qualifier	RL	 Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00918		0.00400	mg/Kg			07/24/23 17:01	1

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Released to Imaging: 7/15/2024/3324233 PM/

Dil Fac 1

Job ID: 890-4955-1 SDG: 03D2024199

Client Sample ID: BH04B

Project/Site: Buck Federal CTB

Date Collected: 07/17/23 12:45 Date Received: 07/17/23 16:04

Sample Depth: 2

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/31/23 16:01	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/25/23 13:16	07/31/23 03:10	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/25/23 13:16	07/31/23 03:10	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/25/23 13:16	07/31/23 03:10	1
Total TPH	<50.5	U	50.5	mg/Kg		07/25/23 13:16	07/31/23 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			07/25/23 13:16	07/31/23 03:10	1
o-Terphenyl	118		70 - 130			07/25/23 13:16	07/31/23 03:10	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4750		49.6	mg/Kg			07/20/23 09:51	10
lient Sample ID: BH04D						Lab Sam	ple ID: 890-4	955-10
ate Collected: 07/17/23 12:55							Matri	ix: Solid
ate Received: 07/17/23 16:04								
ample Depth: 4								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:10	07/24/23 10:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:10	07/24/23 10:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:10	07/24/23 10:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/19/23 15:10	07/24/23 10:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:10	07/24/23 10:08	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/19/23 15:10	07/24/23 10:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			07/19/23 15:10	07/24/23 10:08	1
1,4-Difluorobenzene (Surr)	92		70 - 130			07/19/23 15:10	07/24/23 10:08	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			07/24/23 17:01	1
Method: SW846 8015 NM - Diesel F	• •							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/31/23 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U	49.6	mg/Kg		07/25/23 13:16	07/31/23 03:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.6	U	49.6	mg/Kg		07/25/23 13:16	07/31/23 03:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/25/23 13:16	07/31/23 03:31	1
Oli Range Organics (Over C28-C36)	<49.6	0	49.0	mg/Kg		07/25/23 13:16	07/31/23 03:31	1

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Lab Sample ID: 890-4955-9 Matrix: Solid

5

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Result Qualifier

<49.6 U

%Recovery Qualifier

120

115

4190

Client Sample Results

RL

RL

50.2

49.6

Limits

70 - 130

70 - 130

Unit

Unit

mg/Kg

mg/Kg

D

D

Prepared

07/25/23 13:16

Prepared

07/25/23 13:16

07/25/23 13:16

Prepared

Job ID: 890-4955-1 SDG: 03D2024199

Project/Site: Buck Federal CTB Client Sample ID: BH04D

Client: Ensolum

Analyte

Total TPH

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Date Collected: 07/17/23 12:55 Date Received: 07/17/23 16:04 Sample Depth: 4

Lab Sample ID: 890-4955-10

Analyzed

07/31/23 03:31

Analyzed

07/31/23 03:31

07/31/23 03:31

Analyzed

07/20/23 09:56

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

10

1

1

1

3 4 5 6 7 8 9 10 11 12 13

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Client: Ensolum Project/Site: Buck Federal CTB

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30749-A-1-C MS	Matrix Spike	90	97
880-30749-A-1-D MSD	Matrix Spike Duplicate	86	124
890-4951-A-1-B MS	Matrix Spike	54 S1-	94
890-4951-A-1-C MSD	Matrix Spike Duplicate	41 S1-	78
890-4955-1	BH01A	93	69 S1-
890-4955-2	BH01D	100	72
890-4955-3	BH01F	105	86
890-4955-4	BH02A	100	92
890-4955-5	BH02C	106	94
890-4955-6	BH03A	113	95
890-4955-7	BH03C	7 S1-	6 S1-
890-4955-8	BH04A	111	92
890-4955-9	BH04B	110	93
890-4955-10	BH04D	96	92
LCS 880-58056/1-A	Lab Control Sample	89	98
LCS 880-58407/1-A	Lab Control Sample	104	98
LCSD 880-58056/2-A	Lab Control Sample Dup	91	96
LCSD 880-58407/2-A	Lab Control Sample Dup	96	99
MB 880-57974/5-A	Method Blank	104	130
MB 880-58056/5-A	Method Blank	102	121
MB 880-58305/5-A	Method Blank	93	105
MB 880-58407/5-A	Method Blank	93	117

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Ree
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4951-A-12-F MS	Matrix Spike	113	93	
890-4951-A-12-G MSD	Matrix Spike Duplicate	115	95	
890-4955-1	BH01A	149 S1+	122	
890-4955-2	BH01D	131 S1+	121	
890-4955-3	BH01F	116	104	
890-4955-4	BH02A	120	109	
890-4955-5	BH02C	144 S1+	132 S1+	
890-4955-6	BH03A	156 S1+	115	
890-4955-7	BH03C	415 S1+	117	
890-4955-7	BH03C	415 S1+	124	
890-4955-8	BH04A	127	119	
890-4955-9	BH04B	127	118	
890-4955-10	BH04D	120	115	
LCS 880-58406/2-A	Lab Control Sample	100	109	
LCSD 880-58406/3-A	Lab Control Sample Dup	100	107	
MB 880-58406/1-A	Method Blank	162 S1+	155 S1+	
Surrogate Legend				

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Prep Type: Total/NA

Page 87 of 188

Job ID: 890-4955-1 SDG: 03D2024199

Prep Type: Total/NA

Released to Imaging: 7/15/202433:24:233 PM

Surrogate Summary

Client: Ensolum Project/Site: Buck Federal CTB 1C0 = 1-Chlorooctane OTPH = o-Terphenyl Page 88 of 188

Job ID: 890-4955-1 SDG: 03D2024199

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Method: 8021B - Volatile Organic Compounds (GC)

	-A								Client Sa	mple ID: Metho	od Blank
Matrix: Solid										Prep Type:	
Analysis Batch: 58285										Prep Batc	
	МВ	МВ									
Analyte	Result	Qualifier	RL		Unit		D	P	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	3	_	07/1	8/23 16:31	07/23/23 14:04	1
Toluene	<0.00200	U	0.00200		mg/Kg			07/1	8/23 16:31	07/23/23 14:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			07/1	8/23 16:31	07/23/23 14:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			07/1	8/23 16:31	07/23/23 14:04	1
o-Xylene	<0.00200		0.00200		mg/Kg			07/1	8/23 16:31	07/23/23 14:04	1
Xylenes, Total	< 0.00400		0.00400		mg/Kg				8/23 16:31	07/23/23 14:04	1
5 <i>i</i>					5.	, ,					
	MB	MB						_			
Surrogate	%Recovery	Qualifier	Limits						repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130						8/23 16:31	07/23/23 14:04	1
1,4-Difluorobenzene (Surr)	130		70 - 130					07/1	8/23 16:31	07/23/23 14:04	1
	- A								Client Sa	mple ID: Metho	od Blank
Matrix: Solid										Prep Type:	
Analysis Batch: 58285										Prep Batc	
	МВ	MB								. Top Date	
Analyte	Result	Qualifier	RL		Unit		D	P	repared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	· · · · · · · · · · · · · · · · · · ·	mg/Kg	3	_		9/23 15:10	07/24/23 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg	3		07/1	9/23 15:10	07/24/23 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	9		07/1	9/23 15:10	07/24/23 01:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	3		07/1	9/23 15:10	07/24/23 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg	9		07/1	9/23 15:10	07/24/23 01:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	9		07/1	9/23 15:10	07/24/23 01:42	1
	МВ	МВ									
Surrogate	%Recovery		Limits					Р	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)									9/23 15:10	07/24/23 01:42	1
1,4-Difluorobenzene (Surr)	121		70 - 130						9/23 15:10	07/24/23 01:42	1
Lab Sample ID: LCS 880-58056/	1-A						С	lient	Sample I	D: Lab Control	
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 58285										Prep Batc	h: 58056
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.1000		mg/Kg			100	70 - 130	
Toluene			0.100	0.09678		mg/Kg			97	70 - 130	
Ethylbenzene			0.100	0.08983		mg/Kg			90	70 - 130	
m-Xylene & p-Xylene			0.200	0.1925		mg/Kg			96	70 - 130	
o-Xylene			0.100	0.09408		mg/Kg			94	70 - 130	
	LCS LCS										
Surrogate	%Recovery Qua		Limits								
4-Bromofluorobenzene (Surr)	89		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								
Lab Sample ID: LCSD 880-58056	5/2-A					Cli	ent	Sam	ple ID: La	ab Control Sam	ple Dup
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 58285										Prep Batc	h: 58056
			Spike	LCSD	LCSD					%Rec	RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits RP	D Limit

5

7

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35

0

Benzene

0.1004

mg/Kg

100

70 - 130

0.100

Client: Ensolum Project/Site: Buck Federal CTB Job ID: 890-4955-1 SDG: 03D2024199

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

Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 58285										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.09518		mg/Kg		95	70 - 130	2	3
Ethylbenzene			0.100	0.09049		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1982		mg/Kg		99	70 - 130	3	35
o-Xylene			0.100	0.09666		mg/Kg		97	70 - 130	3	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		70 - 130								
1,4-Difluorobenzene (Surr)	96		70 - 130								
- Lab Sample ID: 890-4951-A-	1-B MS							Client	Sample ID:	Matrix	Spike
Matrix: Solid										ype: To	
Analysis Batch: 58285										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00202	U F1	0.0994	0.06481	F1	mg/Kg		65	70 - 130		
Toluene	<0.00202	U F1	0.0994	0.06718	F1	mg/Kg		67	70 - 130		
Ethylbenzene	<0.00202	U	0.0994	0.07629		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1584		mg/Kg		80	70 - 130		
o-Xylene	<0.00202	U	0.0994	0.07646		mg/Kg		77	70 - 130		
		MS									

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-4951-A-1-C MSD Matrix: Solid Analysis Batch: 58285

Analysis Batch: 58285									Prep	Batch:	58056
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0990	0.07502		mg/Kg		76	70 - 130	15	35
Toluene	<0.00202	U F1	0.0990	0.07520		mg/Kg		75	70 - 130	11	35
Ethylbenzene	<0.00202	U	0.0990	0.07566		mg/Kg		76	70 - 130	1	35
m-Xylene & p-Xylene	<0.00404	U	0.198	0.1456		mg/Kg		74	70 - 130	8	35
o-Xylene	<0.00202	U	0.0990	0.07642		mg/Kg		77	70 - 130	0	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	41	S1-	70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: MB 880-58305/5-A Matrix: Solid Analysis Batch: 58347

МВ МВ Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 07/24/23 08:56 07/24/23 13:58 mg/Kg 1 07/24/23 08:56 Toluene <0.00200 U 0.00200 mg/Kg 07/24/23 13:58 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/24/23 08:56 07/24/23 13:58 1 <0.00400 U 0.00400 07/24/23 08:56 07/24/23 13:58 m-Xylene & p-Xylene mg/Kg 1

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Page 90 of 188

5

7

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58305

Client: Ensolum Project/Site: Buck Federal CTB

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

			/ (,								
Lab Sample ID: MB 880-58305/5-A									Client Sa	mple ID: Met		
Matrix: Solid										Prep Type		
Analysis Batch: 58347										Prep Ba	tch:	58305
		MB										
Analyte	Result	Qualifier	RL		Unit		D	P	repared	Analyzed		Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/	Kg		07/2	24/23 08:56	07/24/23 13:5	8	1
Xylenes, Total	<0.00400	U	0.00400		mg/	Kg		07/2	24/23 08:56	07/24/23 13:5	8	1
	MB	МВ										
Summerica			Lincita					_	Transvad	Analyzad		
Surrogate	%Recovery 93	Qualifier	<u>Limits</u> 70 _ 130						Prepared	Analyzed 07/24/23 13:5		Dil Fac
4-Bromofluorobenzene (Surr)									24/23 08:56			-
1,4-Difluorobenzene (Surr)	105		70 - 130					07/2	24/23 08:56	07/24/23 13:5	8	1
Lab Sample ID: MB 880-58407/5-A									Client Sa	mple ID: Met	hod	Blank
Matrix: Solid	•								chefit 3a	Prep Type		
										Fieb iybe	. 10	
Analysis Batch: 58347	МВ	MD										
Analyta		MB			11 14		P	_) ronored	Analyza		
Analyte Benzene	<0.00200	Qualifier					D	P	repared	Analyzed		Dil Fac
			0.00200		mg/	-				07/25/23 01:3		1
Toluene	< 0.00200		0.00200		mg/					07/25/23 01:3		1
Ethylbenzene	<0.00200		0.00200		mg/					07/25/23 01:3		1
m-Xylene & p-Xylene	<0.00400		0.00400		mg/					07/25/23 01:3		1
o-Xylene	<0.00200	U	0.00200		mg/	Kg				07/25/23 01:3	6	1
Xylenes, Total	<0.00400	U	0.00400		mg/	Kg				07/25/23 01:3	6	1
	MB	МВ										
Surrogate	%Recovery		Limits					F	Prepared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	93									07/25/23 01:3	6 —	1
1,4-Difluorobenzene (Surr)	117		70 - 130							07/25/23 01:3		1
											-	
Lab Sample ID: LCS 880-58407/1-	Α						С	lien	t Sample	D: Lab Contr	ol Sa	ample
Matrix: Solid										Prep Type		
Analysis Batch: 58347										Prep Ba		
			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1110		mg/Kg			111	70 - 130		
Toluene			0.100	0.1041		mg/Kg			104	70 - 130		
Ethylbenzene			0.100	0.1018		mg/Kg			102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2248		mg/Kg			112	70 - 130		
o-Xylene			0.100	0.1083		mg/Kg			108	70 - 130		
			0.100	0.1000								
	LCS LCS	;										
Surrogate %	%Recovery Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	104		70 - 130									
1,4-Difluorobenzene (Surr)	98		70 - 130									
Lab Sample ID: LCSD 880-58407/2	2- A					CI	ient	San	nple ID: La	ab Control Sa		
Matrix: Solid										Prep Type		
Analysis Batch: 58347										Prep Ba	tch:	
			Spike		LCSD					%Rec		RPD
Analyte			Added	Result	Qualifier	Unit			%Rec		RPD	Limit
Benzene			0.100	0.1104		mg/Kg			110	70 - 130	0	35
Toluene			0.100	0.1015		mg/Kg			101	70 - 130	3	35
Ethylbenzene			0.100	0.1005		mg/Kg			101	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2131		mg/Kg			107	70 - 130	5	35
o-Xylene			0.100	0.1014		mg/Kg			101	70 - 130	7	35

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7

SDG: 03D2024199

MS MS

0.08101

0.07726

0.07050

0.199

0.06019 F1

0.1293 F1

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

%Rec

81

78

61

65

71

Client: Ensolum Project/Site: Buck Federal CTB

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-30749-A-1-C MS

Matrix: Solid

m-Xylene & p-Xylene

1,4-Difluorobenzene (Surr)

Analysis Batch: 58347			
	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
Benzene	< 0.00198	U	0.0994
Toluene	<0.00198	U F1	0.0994
Ethylbenzene	<0.00198	U F1	0.0994

<0.00396 UF1

o-Xylene	<0.00198	U F1	0.0994
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-30749-A-1-D MSD Matrix: Solid Analysis Batch: 58347

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0992	0.08268		mg/Kg		83	70 - 130	2	35
Toluene	<0.00198	U F1	0.0992	0.05680	F1	mg/Kg		57	70 - 130	31	35
Ethylbenzene	<0.00198	U F1	0.0992	0.04895	F1	mg/Kg		49	70 - 130	21	35
m-Xylene & p-Xylene	<0.00396	U F1	0.198	0.1317	F1	mg/Kg		66	70 - 130	2	35
o-Xylene	<0.00198	U F1	0.0992	0.06187	F1	mg/Kg		62	70 - 130	13	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	86		70 - 130								

70 - 130

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

124

Lab Sample ID: MB 880-58406/1-A Matrix: Solid Analysis Batch: 58792	мв	МВ				Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 17:42	07/30/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 17:42	07/30/23 19:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 17:42	07/30/23 19:47	1
Total TPH	<50.0	U	50.0	mg/Kg		07/24/23 17:42	07/30/23 19:47	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130			07/24/23 17:42	07/30/23 19:47	1
o-Terphenyl	155	S1+	70 - 130			07/24/23 17:42	07/30/23 19:47	1

Job ID: 890-4955-1 SDG: 03D2024199

Page 92 of 188

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130 70 - 130

70 - 130

70 - 130

70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 58407

Prep Batch: 58407

Client: Ensolum Project/Site: Buck Federal CTB Job ID: 890-4955-1 SDG: 03D2024199

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

Lab Sample ID: LCS 880-584	106/2-A						Client	Sample	ID: Lab Co		
Matrix: Solid										Гуре: То	
Analysis Batch: 58792									Prep	Batch:	58406
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	869.2		mg/Kg		87	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	938.4		mg/Kg		94	70 - 130		
C10-C28)											
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	109		70 - 130								
Lab Sample ID: LCSD 880-5	8406/3-A					Clie	nt Sam	ple ID:	Lab Contro	l Sampl	e Dup
Matrix: Solid								-		Type: To	
Analysis Batch: 58792										Batch:	
,			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	864.3		mg/Kg		86	70 - 130	1	20
(GRO)-C6-C10										·	
Diesel Range Organics (Over			1000	921.7		mg/Kg		92	70 - 130	2	20
C10-C28)											
	1005	LCSD									
Surragata			1 5 14								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane p-Terphenyl	100 107		70 ₋ 130 70 ₋ 130								
Lab Sample ID: 890-4951-A-	12-F MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: To	
Analysis Batch: 58792										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.3	U	1010	748.0		mg/Kg		74	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	255		1010	1047		mg/Kg		79	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	93		70 - 130								
	33		10 - 100								
Lab Sample ID: 890-4951-A-	12-G MSD					CI	ient Sa	ample IF): Matrix Sp	oike Dur	olicate
Matrix: Solid										Гуре: То	
										Batch:	
	Sample	Sample	Spike	MGD	MSD				%Rec	Daten.	RPD
Analysis Batch. 50/92	alunie	-	Added		MSD Qualifier	Unit		% Paa	%Rec Limits	חחם	
		Qualifier		Result	Quaimer	Unit	D	%Rec		RPD	Limit
Analysis Batch: 58792 Analyte	Result	Qualifier		755 4		ma m /1 /			70 400		
Analyte Gasoline Range Organics			1010	755.1		mg/Kg		75	70 - 130	1	20
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.3		1010								
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result			755.1		mg/Kg mg/Kg		75 80	70 ₋ 130 70 ₋ 130	1	20 20
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.3 255	U	1010								
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.3 255		1010								
Analyte Gasoline Range Organics	Result <50.3 255	U MSD	1010								

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Page 93 of 188

QC Sample Results

Job ID: 890-4955-1 SDG: 03D2024199

Project/Site: Buck Federal CTB

Client: Ensolum

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

Lab Sample ID: 890-4951-A-1	2-G MSD						C	Client S	ample I	D: Matrix Sp	oike Dup	olicate
Matrix: Solid										Prep T	ype: To	tal/NA
Analysis Batch: 58792										Prep	Batch:	58406
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
o-Terphenyl		Quanner -	70 - 130	-								
	30		70 - 730									
Method: 300.0 - Anions, I	on Chromat	ography										
Lab Sample ID: MB 880-5801	2/1-A								Client	Sample ID:	Method	Blank
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 58102												
		MB MB										
Analyte	R	esult Qualifier		RL		Unit		D F	repared	Analyz	ed	Dil Fac
Chloride	<	5.00 U		5.00		mg/Kg	1			07/20/23	08:34	1
Lab Sample ID: LCS 880-580	12/2-A							Clien	t Sampl	e ID: Lab Co	ontrol S	ample
Matrix: Solid											Type: S	
Analysis Batch: 58102											.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Spike		LCS	LCS				%Rec		
Analyte			Added	F	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250		232.9		mg/Kg		93	90 - 110		
-												
Lab Sample ID: LCSD 880-58	012/3-A						Cli	ent San	nple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 58102												
			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added	F	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Chloride			250		232.9		mg/Kg		93	90 - 110	0	20
- Lab Sample ID: 890-4955-1 N	IS									Client Sam	ple ID: E	3H01 <i>A</i>
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 58102												
-	Sample	Sample	Spike		MS	MS				%Rec		
Analyte	Result	Qualifier	Added	F	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	59.3		251		286.1		mg/Kg		91	90 - 110		
- Lab Sample ID: 890-4955-1 N	ISD									Client Sam	ole ID: E	3H01 <i>4</i>
Matrix: Solid											Type: S	
Analysis Batch: 58102											1.0.0	
,	Sample	Sample	Spike		MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	F	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	59.3		251		287.2		mg/Kg		91	90 - 110	0	20

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QC Association Summary

Client: Ensolum Project/Site: Buck Federal CTB Page 95 of 188

Job ID: 890-4955-1 SDG: 03D2024199

GC VOA

Prep Batch: 57974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57974/5-A	Method Blank	Total/NA	Solid	5035	
rep Batch: 58056					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-2	BH01D	Total/NA	Solid	5035	
890-4955-4	BH02A	Total/NA	Solid	5035	
890-4955-5	BH02C	Total/NA	Solid	5035	
890-4955-8	BH04A	Total/NA	Solid	5035	
890-4955-9	BH04B	Total/NA	Solid	5035	
890-4955-10	BH04D	Total/NA	Solid	5035	
MB 880-58056/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58056/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58056/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4951-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4951-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-2	BH01D	Total/NA	Solid	8021B	58056
890-4955-4	BH02A	Total/NA	Solid	8021B	58056
890-4955-5	BH02C	Total/NA	Solid	8021B	58056
890-4955-8	BH04A	Total/NA	Solid	8021B	58056
890-4955-9	BH04B	Total/NA	Solid	8021B	58056
890-4955-10	BH04D	Total/NA	Solid	8021B	58056
MB 880-57974/5-A	Method Blank	Total/NA	Solid	8021B	57974
MB 880-58056/5-A	Method Blank	Total/NA	Solid	8021B	58056
LCS 880-58056/1-A	Lab Control Sample	Total/NA	Solid	8021B	58056
LCSD 880-58056/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58056
890-4951-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	58056
890-4951-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58056

Prep Batch: 58305

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-58305/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 58347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-1	BH01A	Total/NA	Solid	8021B	58407
890-4955-3	BH01F	Total/NA	Solid	8021B	58407
890-4955-6	BH03A	Total/NA	Solid	8021B	58407
890-4955-7	BH03C	Total/NA	Solid	8021B	58407
MB 880-58305/5-A	Method Blank	Total/NA	Solid	8021B	58305
MB 880-58407/5-A	Method Blank	Total/NA	Solid	8021B	
LCS 880-58407/1-A	Lab Control Sample	Total/NA	Solid	8021B	58407
LCSD 880-58407/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58407
880-30749-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	58407
880-30749-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58407
Analysis Batch: 58402					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4955-1	BH01A	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum Project/Site: Buck Federal CTB

GC VOA (Continued)

Analysis Batch: 58402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4955-2	BH01D	Total/NA	Solid	Total BTEX	
890-4955-3	BH01F	Total/NA	Solid	Total BTEX	
390-4955-4	BH02A	Total/NA	Solid	Total BTEX	
390-4955-5	BH02C	Total/NA	Solid	Total BTEX	
390-4955-6	BH03A	Total/NA	Solid	Total BTEX	
390-4955-7	BH03C	Total/NA	Solid	Total BTEX	
390-4955-8	BH04A	Total/NA	Solid	Total BTEX	
390-4955-9	BH04B	Total/NA	Solid	Total BTEX	
890-4955-10	BH04D	Total/NA	Solid	Total BTEX	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-1	BH01A	Total/NA	Solid	5035	
890-4955-3	BH01F	Total/NA	Solid	5035	
890-4955-6	BH03A	Total/NA	Solid	5035	
390-4955-7	BH03C	Total/NA	Solid	5035	
LCS 880-58407/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58407/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30749-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-30749-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 58406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-1	BH01A	Total/NA	Solid	8015NM Prep	
890-4955-2	BH01D	Total/NA	Solid	8015NM Prep	
890-4955-3	BH01F	Total/NA	Solid	8015NM Prep	
890-4955-4	BH02A	Total/NA	Solid	8015NM Prep	
890-4955-5	BH02C	Total/NA	Solid	8015NM Prep	
890-4955-6	BH03A	Total/NA	Solid	8015NM Prep	
890-4955-7	BH03C	Total/NA	Solid	8015NM Prep	
890-4955-8	BH04A	Total/NA	Solid	8015NM Prep	
890-4955-9	BH04B	Total/NA	Solid	8015NM Prep	
890-4955-10	BH04D	Total/NA	Solid	8015NM Prep	
MB 880-58406/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58406/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58406/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4951-A-12-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4951-A-12-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58792

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4955-1	BH01A	Total/NA	Solid	8015B NM	58406
890-4955-2	BH01D	Total/NA	Solid	8015B NM	58406
890-4955-3	BH01F	Total/NA	Solid	8015B NM	58406
890-4955-4	BH02A	Total/NA	Solid	8015B NM	58406
890-4955-5	BH02C	Total/NA	Solid	8015B NM	58406
890-4955-6	BH03A	Total/NA	Solid	8015B NM	58406
890-4955-7	BH03C	Total/NA	Solid	8015B NM	58406
890-4955-7	BH03C	Total/NA	Solid	8015B NM	58406

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Page 96 of 188

Job ID: 890-4955-1 SDG: 03D2024199

QC Association Summary

Client: Ensolum Project/Site: Buck Federal CTB

GC Semi VOA (Continued)

Analysis Batch: 58792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-8	BH04A	Total/NA	Solid	8015B NM	58406
890-4955-9	BH04B	Total/NA	Solid	8015B NM	58406
890-4955-10	BH04D	Total/NA	Solid	8015B NM	58406
MB 880-58406/1-A	Method Blank	Total/NA	Solid	8015B NM	58406
LCS 880-58406/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58406
LCSD 880-58406/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58406
890-4951-A-12-F MS	Matrix Spike	Total/NA	Solid	8015B NM	58406
890-4951-A-12-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58406

Analysis Batch: 58920

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4955-1	BH01A	Total/NA	Solid	8015 NM	
890-4955-2	BH01D	Total/NA	Solid	8015 NM	
890-4955-3	BH01F	Total/NA	Solid	8015 NM	
890-4955-4	BH02A	Total/NA	Solid	8015 NM	
890-4955-5	BH02C	Total/NA	Solid	8015 NM	
890-4955-6	BH03A	Total/NA	Solid	8015 NM	
890-4955-7	BH03C	Total/NA	Solid	8015 NM	
890-4955-8	BH04A	Total/NA	Solid	8015 NM	
890-4955-9	BH04B	Total/NA	Solid	8015 NM	
890-4955-10	BH04D	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-1	BH01A	Soluble	Solid	DI Leach	
890-4955-2	BH01D	Soluble	Solid	DI Leach	
890-4955-3	BH01F	Soluble	Solid	DI Leach	
890-4955-4	BH02A	Soluble	Solid	DI Leach	
890-4955-5	BH02C	Soluble	Solid	DI Leach	
890-4955-6	BH03A	Soluble	Solid	DI Leach	
890-4955-7	BH03C	Soluble	Solid	DI Leach	
890-4955-8	BH04A	Soluble	Solid	DI Leach	
890-4955-9	BH04B	Soluble	Solid	DI Leach	
890-4955-10	BH04D	Soluble	Solid	DI Leach	
MB 880-58012/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58012/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58012/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4955-1 MS	BH01A	Soluble	Solid	DI Leach	
890-4955-1 MSD	BH01A	Soluble	Solid	DI Leach	

Analysis Batch: 58102

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4955-1	BH01A	Soluble	Solid	300.0	58012
890-4955-2	BH01D	Soluble	Solid	300.0	58012
890-4955-3	BH01F	Soluble	Solid	300.0	58012
890-4955-4	BH02A	Soluble	Solid	300.0	58012
890-4955-5	BH02C	Soluble	Solid	300.0	58012
890-4955-6	BH03A	Soluble	Solid	300.0	58012
890-4955-7	BH03C	Soluble	Solid	300.0	58012

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Job ID: 890-4955-1 SDG: 03D2024199

Client: Ensolum Project/Site: Buck Federal CTB

HPLC/IC (Continued)

Analysis Batch: 58102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4955-8	BH04A	Soluble	Solid	300.0	58012
890-4955-9	BH04B	Soluble	Solid	300.0	58012
890-4955-10	BH04D	Soluble	Solid	300.0	58012
MB 880-58012/1-A	Method Blank	Soluble	Solid	300.0	58012
LCS 880-58012/2-A	Lab Control Sample	Soluble	Solid	300.0	58012
LCSD 880-58012/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58012
890-4955-1 MS	BH01A	Soluble	Solid	300.0	58012
890-4955-1 MSD	BH01A	Soluble	Solid	300.0	58012

7/31/2023

Released to Imaging: 7/15/2024/3324233 PM

Job ID: 890-4955-1 SDG: 03D2024199

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9

Job ID: 890-4955-1 SDG: 03D2024199

Lab Sample ID: 890-4955-1 Matrix: Solid

Lab Sample ID: 890-4955-2

Lab Sample ID: 890-4955-3

Lab Sample ID: 890-4955-4

Matrix: Solid

Matrix: Solid

Date Collected: 07/17/23 09:00 Date Received: 07/17/23 16:04

Project/Site: Buck Federal CTB

Client Sample ID: BH01A

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58407	07/24/23 17:46	AJ	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	58347	07/25/23 04:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/25/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58406	07/25/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/30/23 23:51	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 08:49	СН	EET MID

Client Sample ID: BH01D

Date Collected: 07/17/23 09:15

Date Received: 07/17/23 16:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58056	07/19/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/24/23 07:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/24/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58406	07/25/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/31/23 00:13	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 09:05	СН	EET MID

Client Sample ID: BH01F

Date Collected: 07/17/23 09:30

Date Received: 07/17/23 16:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58407	07/24/23 17:46	AJ	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	58347	07/25/23 04:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/25/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58406	07/25/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/31/23 00:34	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 09:10	СН	EET MID

Client Sample ID: BH02A Date Collected: 07/17/23 10:50 Date Received: 07/17/23 16:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58056	07/19/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/24/23 08:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/24/23 17:01	AJ	EET MID

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Matrix: Solid

Page 99 of 188

Released to Imaging: 7/15/20243324233 PM

Lab Chronicle

Job ID: 890-4955-1 SDG: 03D2024199

Lab Sample ID: 890-4955-4 Matrix: Solid

Lab Sample ID: 890-4955-5

Lab Sample ID: 890-4955-6

Lab Sample ID: 890-4955-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 07/17/23 10:50 Date Received: 07/17/23 16:04

Project/Site: Buck Federal CTB

Client Sample ID: BH02A

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58406	07/25/23 13:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/31/23 00:55	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 09:15	СН	EET MID

Client Sample ID: BH02C Date Collected: 07/17/23 11:00

Date Received: 07/17/23 16:04

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58056	07/19/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/24/23 08:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/24/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58406	07/25/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/31/23 01:37	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 09:20	СН	EET MID

Client Sample ID: BH03A

Date Collected: 07/17/23 12:10 Date Received: 07/17/23 16:04

Batch Batch Dil Initial Final Batch Prepared Ргер Туре Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 58407 07/24/23 17:46 AJ EET MID Total/NA 8021B 250 5 mL 5 mL 58347 07/25/23 09:34 SM EET MID Analysis Total/NA Total BTEX Analysis 1 58402 07/25/23 14:35 AJ EET MID Total/NA Analysis 8015 NM 58920 07/31/23 16:01 AJ EET MID 1 58406 07/25/23 13:16 Total/NA Prep 8015NM Prep 10.09 g 10 mL TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 58792 07/31/23 01:59 AJ EET MID 1 Soluble Leach DI Leach 4.96 g 50 mL 58012 07/19/23 10:11 KS EET MID Soluble Analysis 300.0 5 58102 07/20/23 09:35 СН EET MID

Client Sample ID: BH03C

Date Collected: 07/17/23 12:20 Date Received: 07/17/23 16:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58407	07/24/23 17:46	AJ	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	58347	07/25/23 09:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/26/23 16:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58406	07/25/23 13:16	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/31/23 02:20	AJ	EET MID

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5

9

Lab Chronicle

Job ID: 890-4955-1 SDG: 03D2024199

Lab Sample ID: 890-4955-7 Matrix: Solid

Lab Sample ID: 890-4955-8

Date Collected: 07/17/23 12:20 Date Received: 07/17/23 16:04

Project/Site: Buck Federal CTB

Client Sample ID: BH03C

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58406	07/25/23 13:16	ТКС	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	58792	07/31/23 07:30	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		10			58102	07/20/23 09:40	СН	EET MID

Client Sample ID: BH04A

Date Collected: 07/17/23 12:40 Date Received: 07/17/23 16:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	5035			5.01 g	5 mL	58056	07/19/23 15:10	EL	
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/24/23 09:27	SM	
Total/NA	Analysis	Total BTEX		1			58402	07/24/23 17:01	AJ	
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58406	07/25/23 13:16	ткс	
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/31/23 02:48	AJ	
Soluble	Leach	DI Leach			5.02 g	50 mL	58012	07/19/23 10:11	KS	
Soluble	Analysis	300.0		5			58102	07/20/23 09:46	CH	

Client Sample ID: BH04B

Date Collected: 07/17/23 12:45 Date Received: 07/17/23 16:04

Lab Sample ID: 890-4955-9

Lab Sample ID: 890-4955-10

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab

EET MID EET MID

EET MID EET MID

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9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58056	07/19/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/24/23 09:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/24/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58406	07/25/23 13:16	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58792	07/31/23 03:10	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		10			58102	07/20/23 09:51	СН	EET MID

Client Sample ID: BH04D

Date Collected: 07/17/23 12:55 Date Received: 07/17/23 16:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58056	07/19/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58285	07/24/23 10:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58402	07/24/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58920	07/31/23 16:01	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.09 g 1 uL	10 mL 1 uL	58406 58792	07/25/23 13:16 07/31/23 03:31	TKC AJ	EET MID EET MID

Eurofins Carlsbad

Page 101 of 188

Released to Imaging: 7/15/20243324233 PM

Lab Chronicle

Job ID: 890-4955-1 SDG: 03D2024199

Client Sample ID: BH04D Date Collected: 07/17/23 12:55

Project/Site: Buck Federal CTB

Client: Ensolum

Date	Received:	07/17/23	16:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	5
Soluble	Leach	DI Leach			4.98 g	50 mL	58012	07/19/23 10:11	KS	EET MID	
Soluble	Analysis	300.0		10			58102	07/20/23 09:56	СН	EET MID	6

Laboratory References:

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

Lab Sample ID: 890-4955-10

Matrix: Solid

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Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensol	um		
Project/Site:	Buck I	Federal	СТВ

Job ID: 890-4955-1 SDG: 03D2024199

Laboratory: Eurofins Midland

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

uthority	F	Program	Identification Number	Expiration Date	
exas	1	NELAP	T104704400-23-26	06-30-24	
• ,		but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for	
the agency does not of		Matrix	Analyte		
Analysis Method	fer certification. Prep Method	Matrix	Analyte		
Analysis Method 8015 NM	Prep Method	Solid	Total TPH		
Analysis Method					

Method Summary

Client: Ensolum Project/Site: Buck Federal CTB Job ID: 890-4955-1 SDG: 03D2024199

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	Environmental Protection Agency	a November 1086 And Its Undates	
SW846 = '	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Editio	n, November 1986 And Its Updates.	
TAL SOP :	 TestAmerica Laboratories, Standard Operating Procedure 		
Laboratory Re	eferences:		
EET MID =	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Eurofins Carlsbad

Sample Summary

Client: Ensolum Project/Site: Buck Federal CTB

Job ID: 890-4955-1
SDG: 03D2024199

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-4955-1	BH01A	Solid	07/17/23 09:00	07/17/23 16:04	1	_
90-4955-2	BH01D	Solid	07/17/23 09:15	07/17/23 16:04	4	
90-4955-3	BH01F	Solid	07/17/23 09:30	07/17/23 16:04	6	. 5
90-4955-4	BH02A	Solid	07/17/23 10:50	07/17/23 16:04	1	
90-4955-5	BH02C	Solid	07/17/23 11:00	07/17/23 16:04	3	
90-4955-6	BH03A	Solid	07/17/23 12:10	07/17/23 16:04	1	
90-4955-7	BH03C	Solid	07/17/23 12:20	07/17/23 16:04	3	
90-4955-8	BH04A	Solid	07/17/23 12:40	07/17/23 16:04	1	
90-4955-9	BH04B	Solid	07/17/23 12:45	07/17/23 16:04	2	
00-4955-10	BH04D	Solid	07/17/23 12:55	07/17/23 16:04	4	
						1
						1

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Z/1/2024 3:42:39 04M

Received by OCD:

🔅 eurofins

7/31/2023

Environment Testing Work Order No: Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 of www.xenco.com Page Work Order Comments Hadlie Green Bill to: (if different) Kalei Jennings Project Manager: Program: UST/PST [] PRP[] Brownfields] RRC] Superfund] Ensolum, LLC Company Name: Ensolum, LLC Company Name: State of Project: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 Address: Reporting: Level II Level III PST/UST TRRP Level IV City, State ZIP: Midland, TX 79701 City, State ZIP: Midland, TX 79701 Deliverables: EDD ADaPT Other: Email: hareen@ensolum.com, kjennings@ensolum.com Phone: 432-557-8895 **Preservative Codes** ANALYSIS REQUEST **Buck Federal CTB Turn Around** Project Name: Pres DI Water: H₂O None: NO Routine Rush Project Number: 03D2024199 Code Cool: Cool MeOH: Me Project Location: 32.0375,-103.6966 Due Date: HCL: HC HNO3: HN Sampler's Name: Peter Van Patten TAT starts the day received by H2SO4: H2 NaOH: Na the lab, if received by 4:30pm PO #: Parameters H₃PO₄: HP SAMPLE RECEIPT Ye Temp Blank: Yes No Wet ice: No CHLORIDES (EPA: 300.0) NaHSO₄: NABIS Thermometer ID: Samples Received Intact: Yes No FOOM Na2S2O3: NaSO3 S Yes No NA **Cooler Custody Seals:** Correction Factor: -0. Zn Acetate+NaOH: Zn Sample Custody Seals: Yes No N/A Temperature Reading: 890-4955 Chain of Custod BTEX (8021) NaOH+Ascorbic Acid: SAPC TPH (8015) **Total Containers:** Corrected Temperature: 2 .D Grab/ # of Date Time Sample Comments Depth Sample Identification Matrix Cont Sampled Sampled Comp х х x 7/17/2023 900 Comp 1 BH01A Soil 1 x х х Soil 7/17/2023 915 4 Comp BH01D Soil 7/17/2023 930 6 Comp 1 х х х BH01F 1 х x х 1050 Comp BH02A Soil 7/17/2023 1 x BH02C Soil 7/17/2023 1100 3 Comp х х х Comp 1 х x Soil 7/17/2023 1210 **BH03A** 1 х x BH03C Soil 7/17/2023 1220 3 Comp х 1 BH04A Soil 7/17/2023 1240 1 Comp х х х 2 Comp 1 х BH04B Soil 7/17/2023 1245 х х 4 Comp Soil 7/17/2023 1255 1 х х x BH04D 8RCRA 13PPM Texas 11 AI 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 200.8 / 6020: Total 200.7 / 6010 Hg: 1631 / 245.1 / 7470 / 7471 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed 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 f 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 Date/Time Relinquished by: (Signature) Received by: (Signature) Relinguished by: (Signature) Received by: (Signature) Date/Time 7.17.234004 Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

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Chain of Custody Record

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Environment Testing

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

	Sampler [.]			Cab C					_	_													
Client Information (Sub Contract Lab)						amer, Jessica									ing No	(s)			COC No [.] 890-1375 1				
Client Contact:	Phone: E-1													of Origi	in.				090-1375 1 Page.				
Shipping/Receiving Company	Jes						_			sus co		İ		Mexic					Page 1 of 2				
Eurofins Environment Testing South Centr							tions R - Tex		ed (Se	e note))								ob # [.]			······································	
dress Due Date Requested						AP .	- Tex	as						*******					890-4955-1 Process at least 1				
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City [.] Midland	TAT Requested (d	ays):				19.9 19	T	T			1	T		T			T		A HCL B NaOH		N N		
State, Zip						2													C Zn Aceta			sNaO2 a2O4S	
TX, 79701							H												D Nitric Aci E NaHSO4			a2043 la2SO3	
Phone [.]	PO #:					13	3											Ê 🏼 F	MeOH			a2S2O3 2SO4	
432-704-5440(Tel)								8											3 Amchlor 4 Ascorbic		TT	SP Dodeca	hydrate
Email	WO # [.]				or No		8016MOD_NM/8015NM_S_Prep (MOD) Full TPH	Chloride										j	Ice		U A V M	CAA	
Project Name.	Project#					2 2	<u>e</u> ;	Ũ I						ļ				2	DI Water		Wρ	H 4-5	
Buck Federal CTB	88001635					000	S	Å I	ы									i i i i i i i i i i i i i i i i i i i	EDA		Y Ti Z of	rizma her (specify	v)
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Sample Identification Client ID (Let ID)		Sample	(C=Comp,	S=solid, O=waste/oli,	8	Perform	16M			15M													
Sample Identification - Client ID (Lab ID)	Sample Date	Time		BT≖Tissue, A¤Air)				8 3	8 4	2 8	-200 COM-000			-0	NORMO DI VITI			۴Ļ	Spee	<u>cial In</u>	struc	tions/No	te:
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BH01F (890-4955-3)	7/17/23	09 30 Mountain		Solid	П		x	x	x ;	x x	(1					
BH02A (890-4955-4)	7/17/23	10 50 Mountain		Solid	\square		x	x	x ;	x x	(1						1	. <u></u>				
BH02C (890-4955-5)	7/17/23	11 00 Mountain		Solid			x	X	x ;	x x	(1					
BH03A (890-4955-6)	7/17/23	12 10 Mountain		Solid			x	x	x ;	x x	(1				1			- 1 4		
BH03C (890-4955-7)	7/17/23	12 20 Mountain		Solid			x	x :	x ;	x x				_				4					
BH04A (890-4955-8)	7/17/23	12 40 Mountain		Solid			x	X :	x ;	x x	(-+		1					
BH04B (890-4955-9)	7/17/23	12 45 Mountain		Solid			x	X	x :	x x	(8					
Note. Since laboratory accreditations are subject to change, Eurofins Environme laboratory does not currently maintain accreditation in the State of Origin listed a accreditation status should be brought to Eurofins Environment Testing South C		al LLC places																					
Possible Hazard Identification					19	Samj	ple D	Dispo	sal (A fee	e may	be a	ssess	ed if	sam	ples a	re reta	ainec	l longer t	than 1	mont	(h)	
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7/31/2023

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Environment Testing

Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199

Eurofins Carlsbad

	Complet	Sampler Lab PM																							
Client Information (Sub Contract Lab)	Sampler	К					^{ib PM} ramer, Jessica ^{Mail}								r Trac	king N	0(s)				COC No: 890-1375 2 Page.				
Client Contact:	Phone														of Orig	in									
Shipping/Receiving	϶L					ssica.Kramer@et.eurofinsus com															Page 2 of 2				
Company Eurofins Environment Testing South Centr								Requi	red (S	See no	ote):										Job # [.]	<u></u>			
Address							NELAP - Texas													-	890-4955-1				
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Midland					1. A. A.															litera -	B NaOH C Zn Acetate	O AsNaO2			
State Zip TX, 79701							Ŧ											Ì			D Nitric Acid	P Na2O4S Q Na2SO3			
Phone:	PO #				100		F				- {				- 1					10.00	E NaHSO4 F - MeOH	R Na2S2C			
432-704-5440(Tel)	10#				100) FL													theorem.	G Amchior	S H2SO4 T TSP Doc	deceludrate		
Email.	WO #:				Filtered Sample (Yes or No		8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride												269.5%	H Ascorbic Acid	U Acetone			
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Project Name: Buck Federal CTB	Project #: 88001635	Project #:					ă	5	~					1				}		containers	K EDTA L-EDA	Y Trizma			
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Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	O=waste/oll, BT=Tissue, A=Ait	Eleid	Perform	015	8	021	Ga	015									ota	On a stat be				
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Note Since laboratory accreditations are subject to change Eurofins Enviro laboratory does not currently maintain accreditation in the State of Origin is	nment Testing South Centr	al, LLC places	the ownership	of method an	nalyte	e & ac	credita	tion co	mplia	ance u	pon o	ur sub	contra	ct lab	orator	ies. T	his sa	ample s	shipn	nent	is forwarded under c	nain-of-custor	iv If the		
laboratory does not currently maintain accreditation in the State of Origin lis accreditation status should be brought to Eurofins Environment Testing Sou	ted above for analysis/tests	/matrix being a	nalyzed the s	amples must b	e sh	ipped	back t	o the E	urofir	ns Env	ironm	nent Te	sting	South	Cent	ral LL	C lab	oratory	oro	ther	instructions will be pr	ovided. Any c	changes to		
					ne ci																		tral, LLC.		
Possible Hazard Identification						Sar						nay b						s are	reta	aine	ed longer than 1	month)			
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Custody Seals Intact. Custody Seal No							Coole	r Temp	peratu	ure(s) '	°C an	d Othe	r Rem	arks.		du									
Δ Yes Δ No																									

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7/31/2023
14

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4955 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-4955-1 SDG Number: 03D2024199

List Source: Eurofins Carlsbad

14

Job Number: 890-4955-1 SDG Number: 03D2024199

List Source: Eurofins Midland

List Creation: 07/19/23 12:08 PM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4955 List Number: 2 Creator: Teel, Brianna

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	True	



APPENDIX E

NMOCD Notifications

Released to Imaging: 7/15/20243324233 PM/

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] COP - Sampling Notification (Week of 6/26/2023)
Date:	Wednesday, June 21, 2023 3:44:17 PM
Attachments:	image005.jpg image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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.

JΗ

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, June 21, 2023 7:38 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 6/26/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of June 26, 2023.

- Stratojet 31 State Com 8H / NAPP2314235805
 - Sampling Date: 6/26/2023 @ 10:00 AM MST
- Buck Federal CTB / NAPP2315731307

• Sampling Date: 6/29/2023 @ 10:00 AM MST

Thank you,



Hadlie Green Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] COP - Sampling Notification (Week of 7/17/2023)
Date:	Thursday, July 13, 2023 2:20:01 PM
Attachments:	image005.jpg
	image006.png
	image007.png
	image008.png
	image009.png

[**EXTERNAL EMAIL**]

Hadlie,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JΗ

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, July 13, 2023 9:18 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>; brittany.esparza@conocophillips.com
Subject: [EXTERNAL] COP - Sampling Notification (Week of 7/17/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following sites the week of July 17, 2023.

• Buck Federal CTB / NAPP2315731307

- Sampling Date: 7/17/2023 @ 0900 MST
- Red Bull 35 Federal 1 Poly Line / NAPP2317142248
 - Sampling Date: 7/20/2023 @ 0900 MST

Thank you,



Hadlie Green Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC



APPENDIX F

Final C-141

.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Page 117 of 188

Incident ID	NAPP2315731307
District RP	
Facility ID	fAPP2212245796
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips Company	OGRID	217817
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2315731307
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

Location of Release Source

Latitude 32.0375

-103.6966

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

Site Name	Buck Federal CTB	Site Type Tank Battery
Date Release Disc	overed June 1, 2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
0	17	26S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 7.0179	Volume Recovered (bbls) 5
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Palance		1

Cause of Release

The release was caused by human error due to driver not checking tank levels.

The release was within a lined facility and leaked onto the pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Daga	2
rage	2

Oil Conservation Division

Incident ID	NAPP2315731307
District RP	
Facility ID	fAPP2212245796
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🔳 No	
If YES, was immediate no	otice 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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

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 Brittany N. Esparza	Title: Environmental Technician
Printed Name Brittany N. Esparza Signature: Brittany.Esparza@ConocoPhillips.com	Date: <u>6/6/2023</u> Telephone: (432) 221-0398
OCD Only	
Received by: Jocelyn Harimon	Date:06/06/2023

NADD0046704207					Spi	Spill Calculation - Subsurface Spill - Rectangle	Spill - Rectangle		Remediation	Remediation Recommendation
- Recenter 6-0219-08/2023 8:51:20	023 8:51:2	WV 9						Tota	Total Estimated	Puge 3 of 4
	100 miles	and and	Average	On/Off	Soil Spilled-Fluid	Estimated volume of each	Total Estimated Volume	Co	Contaminated	Current Rule of Thumb -
Convert Irregular snape	-	>	Depth		Saturation	area	of Spill		Soil,	RMR Handover Volume,
no a series or rectangles	(II.)	(H.)	(in.)	(dropdown)	(%)	(bbl.)	(bbl.)	nuc	uncompacted,	(vd ³ .)
								2	25% (yd ³ .)	
Rectangle A	42.0	10.0	6.0	On-Pad~	8.00%	37.38	2.99		9.72	
Rectangle B	20.0	18.0	4.0	On-Pad~	8.00%	21.36	1.71		5.56	
Rectangle C	12.0	16.0	3.0	On-Pad~	8.00%	8.54	0.68		2.22	
Rectangle D	12.0	8.0	3.0	On-Pad~	8.00%	4.27	0.34		1.11	
Rectangle E	10.0	16.0	4.0	On-Pad~	8.00%	9.49	0.76		2.47	750
Rectangle F	13.0	8.0	3.0	On-Pad ~	8.00%	4.63	0.37		1.20	001
Rectangle G	3.0	2.0	3.0	On-Pad~	8.00%	0.27	0.02		0.07	
Rectangle H	8.0	5.0	3.0	On-Pad~	8.00%	1.78	0.14		0.46	
Rectangle I				>		0.00			0.00	
P. Bact 2019 advine: 6 (6 2023 11-03-17 AM	11 20003	WY CI-20		>		0.00			0.00	
An StarSmith of morning					Total S	Total Subsurface Volume Released	7 0179		22 82	DIT

Received by OCD: 7/1/2024.8:42:39 (4MM

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

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
	Action Number:
Midland, TX 79701	224307
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	6/6/2023

Action 224307

Received by OCD: 7/1/2024-8:42:39 MM State of New Mexico

Oil Conservation Division

	Page 121 of 18
Incident ID	NAPP2315731307
District RP	
Facility ID	fAPP2212245796
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>51 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 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)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖂 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
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Page 3

Received by OCD: 7/1/	2024 8:42:39 AMM State of New Me	vice		Page 122 of 188
F01111 C-141			Incident ID	NAPP2315731307
Page 4	Oil Conservation D	vision	District RP	
			Facility ID	fAPP2212245796
			Application ID	
regulations all operator public health or the env failed to adequately inv addition, OCD acceptar and/or regulations. Printed Name:Jac Signature: <i>Jac</i>	information given above is true and comp s are required to report and/or file certain r ironment. The acceptance of a C-141 reporestigate and remediate contamination that nee of a C-141 report does not relieve the or ob Laird	release notifications and perform co ort by the OCD does not relieve the pose a threat to groundwater, surfa- operator of responsibility for compl 	rrective actions for rele operator of liability sh ce water, human health iance with any other fe Engineer23	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by: <u>Shelly</u>	7 Wells	Date: <u>8/30/2</u>	023	

Received by OCD: 7/1/2024-8:42:39 MMM State of New Mexico

Oil Conservation Division

Incident ID	NAPP2315731307
District RP	
Facility ID	fAPP2212245796
Application ID	

Remediation Plan

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 \boxtimes Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Jacob Laird Title: __Environmental Engineer_____ Signature: Jacob Laird Date: _____8/29/2023_____ email: __Jacob.Laird@conocophillips.com_____ Telephone: ____575-703-5482_____ **OCD Only** Received by: <u>Shelly Wells</u> Date: <u>8/30/2023</u> Approved Approved with Attached Conditions of Approval Denied Deferral Approved Nelson Velez 12/28/2023 Date: Signature:

Page 5

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

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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

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	259505
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan approved as written. Remediation Due date updated to March 27, 2024.	12/28/2023



APPENDIX B

Photographic Log





APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

Page 128 of 188

PREPARED FOR

ANALYTICAL REPORT

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 6/14/2024 4:13:53 PM

JOB DESCRIPTION

BUCK FEDERAL CTB 03D2024199

JOB NUMBER

890-6778-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notos and contact information

Eurofins Carlsbad

Job Notes

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

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

Authorization

AMER

Generated 6/14/2024 4:13:53 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-6778-1 SDG: 03D2024199

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
	6
Surrogate Summary	13
QC Sample Results	14
	20
Lab Chronicle	23
Certification Summary	26
Method Summary	27
Sample Summary	28
	29
	30

2

ceived by OCL	D: 7/1/2024 8:42:39 AM Page 131 of	188
	Definitions/Glossary	
Client: Ensolun Project/Site: Bl	Job ID: 890-6778-1 JCK FEDERAL CTB SDG: 03D2024199	2
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		4.0
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)	13
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)	

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

NEG

POS

PQL

PRES QC

RER

RPD

TEF

TEQ

TNTC

RL

Case Narrative

Job ID: 890-6778-1

Client: Ensolum Project: BUCK FEDERAL CTB

Job ID: 890-6778-1

Eurofins Carlsbad

Job Narrative 890-6778-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/7/2024 3:47 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 1.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-6778-1), FS 02 (890-6778-2), FS 03 (890-6778-3), FS 04 (890-6778-4), FS 05 (890-6778-5), FS 06 (890-6778-6), SW 01 (890-6778-7) and SW 04 (890-6778-8).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 01 (890-6778-1) and FS 02 (890-6778-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 03 (890-6778-3) and FS 04 (890-6778-4). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS 02 (890-6778-2). 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.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-83118 and analytical batch 880-83187 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-83118 and analytical batch 880-83187 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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.

Job ID: 890-6778-1 SDG: 03D2024199

Matrix: Solid

5

Lab Sample ID: 890-6778-1

Client Sample ID: FS 01

Project/Site: BUCK FEDERAL CTB

Date Collected: 06/06/24 13:14 Date Received: 06/07/24 15:47

Surrogate

4-Bromofluorobenzene (Surr)

Client: Ensolum

Method: SW846 8021B - Volatile 0	•	• • •						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00742		0.00199	mg/Kg		06/10/24 08:42	06/10/24 14:03	1
Toluene	0.319		0.00199	mg/Kg		06/10/24 08:42	06/10/24 14:03	1
Ethylbenzene	0.242		0.00199	mg/Kg		06/10/24 08:42	06/10/24 14:03	1
m-Xylene & p-Xylene	0.383		0.00398	mg/Kg		06/10/24 08:42	06/10/24 14:03	1
o-Xylene	0.173		0.00199	mg/Kg		06/10/24 08:42	06/10/24 14:03	1
Xylenes, Total	0.556		0.00398	mg/Kg		06/10/24 08:42	06/10/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	275	S1+	70 - 130			06/10/24 08:42	06/10/24 14:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130			06/10/24 08:42	06/10/24 14:03	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.12		0.00398	mg/Kg			06/10/24 14:03	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	471		49.9	mg/Kg			06/14/24 10:19	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	63.0		49.9	mg/Kg		06/13/24 13:35	06/14/24 10:19	1
Diesel Range Organics (Over C10-C28)	408	F1	49.9	mg/Kg		06/13/24 13:35	06/14/24 10:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/24 13:35	06/14/24 10:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			06/13/24 13:35	06/14/24 10:19	1
o-Terphenyl	93		70 - 130			06/13/24 13:35	06/14/24 10:19	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.5		4.95	mg/Kg			06/11/24 03:18	1
lient Sample ID: FS 02						Lab San	nple ID: 890-	6778-2
ate Collected: 06/06/24 13:15 ate Received: 06/07/24 15:47							Matri	x: Solid
ample Depth: 4'								
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)						
Analyte		Qualifier	/ RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00708		0.00200	mg/Kg		06/10/24 08:42	06/10/24 14:23	1
Toluene	0.202		0.0399	mg/Kg		06/11/24 08:39	06/11/24 15:23	20
Ethylbenzene	0.366		0.00200	mg/Kg		06/10/24 08:42	06/10/24 14:23	1
	0.564		0.00399	mg/Kg		06/10/24 08:42	06/10/24 14:23	1
m-Xylene & p-Xylene	0.004							
m-Xylene & p-Xylene o-Xylene	0.250		0.00200	mg/Kg		06/10/24 08:42	06/10/24 14:23	1

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Client Sample Results

Job ID: 890-6778-1 SDG: 03D2024199

Lab Sample ID: 890-6778-2

Client Sample ID: FS 02

Project/Site: BUCK FEDERAL CTB

Date Collected: 06/06/24 13:15

Date Received: 06/07/24 15:47 Sample Depth: 4'

Client: Ensolum

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC) (Continued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130			06/10/24 08:42	06/10/24 14:23	1
Method: TAL SOP Total BTEX - T		Qualifier	RL	Unit		Dranavad	Analyzad	Dil Fac
Analyte		Quaimer			D	Prepared	Analyzed	
Total BTEX	1.39		0.00399	mg/Kg			06/11/24 15:23	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	537		49.9	mg/Kg			06/14/24 11:08	1
Method: SW846 8015B NM - Dies			· · · ·		_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	114		49.9	mg/Kg		06/13/24 13:35	06/14/24 11:08	1
Diesel Range Organics (Over	423		49.9	mg/Kg		06/13/24 13:35	06/14/24 11:08	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/24 13:35	06/14/24 11:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			06/13/24 13:35	06/14/24 11:08	1
o-Terphenyl	99		70 - 130			06/13/24 13:35	06/14/24 11:08	1
_ Method: EPA 300.0 - Anions, Ion	Chromatogram	hy - Solubi	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.05	mg/Kg			06/11/24 03:37	1
Client Sample ID: FS 03						Lab Sar	nple ID: 890-	6778-3
Date Collected: 06/06/24 13:16								x: Solid
							matri	

Date Collected: 06/06/24 13:16 Date Received: 06/07/24 15:47

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0175		0.00199	mg/Kg		06/10/24 08:42	06/10/24 16:39	1
Toluene	0.0424		0.00199	mg/Kg		06/10/24 08:42	06/10/24 16:39	1
Ethylbenzene	0.0295		0.00199	mg/Kg		06/10/24 08:42	06/10/24 16:39	1
m-Xylene & p-Xylene	0.732		0.00398	mg/Kg		06/10/24 08:42	06/10/24 16:39	1
o-Xylene	0.217		0.00199	mg/Kg		06/10/24 08:42	06/10/24 16:39	1
Xylenes, Total	0.949		0.00398	mg/Kg		06/10/24 08:42	06/10/24 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	332	S1+	70 - 130			06/10/24 08:42	06/10/24 16:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/10/24 08:42	06/10/24 16:39	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.04		0.00398	mg/Kg			06/10/24 16:39	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	994		50.0	mg/Kg			06/14/24 11:25	

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Page 134 of 188

Matrix: Solid

5

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Job ID: 890-6778-1 SDG: 03D2024199

Lab Sample ID: 890-6778-3

Lab Sample ID: 890-6778-4

Matrix: Solid

Client Sample ID: FS 03

Project/Site: BUCK FEDERAL CTB

Date Collected: 06/06/24 13:16 Date Received: 06/07/24 15:47

Sample Depth: 4'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	343		50.0	mg/Kg		06/13/24 13:35	06/14/24 11:25	
Diesel Range Organics (Over C10-C28)	651		50.0	mg/Kg		06/13/24 13:35	06/14/24 11:25	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/24 13:35	06/14/24 11:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130			06/13/24 13:35	06/14/24 11:25	
o-Terphenyl	97		70 - 130			06/13/24 13:35	06/14/24 11:25	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137	5.04	mg/Kg			06/11/24 03:43	1

Client Sample ID: FS 04

Date Collected: 06/06/24 13:17 Date Received: 06/07/24 15:47

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/10/24 08:42	06/10/24 16:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/10/24 08:42	06/10/24 16:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/10/24 08:42	06/10/24 16:59	1
m-Xylene & p-Xylene	0.0146		0.00399	mg/Kg		06/10/24 08:42	06/10/24 16:59	1
o-Xylene	0.00200		0.00200	mg/Kg		06/10/24 08:42	06/10/24 16:59	1
Xylenes, Total	0.0166		0.00399	mg/Kg		06/10/24 08:42	06/10/24 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			06/10/24 08:42	06/10/24 16:59	1
1,4-Difluorobenzene (Surr)	99		70 - 130			06/10/24 08:42	06/10/24 16:59	1
- Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0166		0.00399	mg/Kg			06/10/24 16:59	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	118		49.9	mg/Kg			06/14/24 11:41	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (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		06/13/24 13:35	06/14/24 11:41	1
Diesel Range Organics (Over C10-C28)	118		49.9	mg/Kg		06/13/24 13:35	06/14/24 11:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/24 13:35	06/14/24 11:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			06/13/24 13:35	06/14/24 11:41	1
o-Terphenyl	89		70 - 130			06/13/24 13:35	06/14/24 11:41	1

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Matrix: Solid

5

Released to Imaging: 7/15/2024 3:24:33 PM

6/14/2024

		Clien	t Sample Re	sults				
Client: Ensolum							Job ID: 890	
Project/Site: BUCK FEDERAL CTB							SDG: 03D	2024199
Client Sample ID: FS 04						Lab Sar	nple ID: 890-	6778-4
Date Collected: 06/06/24 13:17							Matr	ix: Solid
Date Received: 06/07/24 15:47								
Sample Depth: 4'								
_ Method: EPA 300.0 - Anions, Ion	Chromatogram	ohv - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		4.96	mg/Kg			06/11/24 04:02	1
Client Sample ID: FS 05						Lab Sar	nple ID: 890-	6778-5
Date Collected: 06/06/24 12:30							-	ix: Solid
Date Received: 06/07/24 15:47								
Sample Depth: 1'								
	0							
Method: SW846 8021B - Volatile Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201		0.00201	mg/Kg		06/10/24 08:42	06/10/24 17:20	1
Toluene	< 0.00201		0.00201	mg/Kg		06/10/24 08:42	06/10/24 17:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/10/24 08:42	06/10/24 17:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/10/24 08:42	06/10/24 17:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/10/24 08:42	06/10/24 17:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/10/24 08:42	06/10/24 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			06/10/24 08:42	06/10/24 17:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130			06/10/24 08:42	06/10/24 17:20	1
– Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/10/24 17:20	1
Ξ								
Method: SW846 8015 NM - Diese		Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	103		RL 50.0	0mt mg/Kg			06/14/24 11:57	1
	103		30.0	mg/rtg			00/14/24 11.5/	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/13/24 13:35	06/14/24 11:57	1
(GRO)-C6-C10	400		F0 0	m all a		06/12/24 12:25	06/14/04 11/57	4
Diesel Range Organics (Over C10-C28)	103		50.0	mg/Kg		06/13/24 13:35	06/14/24 11:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/24 13:35	06/14/24 11:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			06/13/24 13:35	06/14/24 11:57	1
o-Terphenyl	90		70 - 130			06/13/24 13:35	06/14/24 11:57	1
-								
Method: EPA 300.0 - Anions, Ion	· · ·	-		Unit	P	Bronorod	Analyzed	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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06/11/24 04:08

Chloride

5.02

mg/Kg

RL

0.00202

0.00202

0.00202

0.00404

0.00202

0.00404

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

06/10/24 08:42

06/10/24 08:42

06/10/24 08:42

06/10/24 08:42

06/10/24 08:42

06/10/24 08:42

Job ID: 890-6778-1

Client Sample ID: FS 06

Project/Site: BUCK FEDERAL CTB

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

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00404 U

<0.00202 U

<0.00404 U

Date Collected: 06/06/24 12:40 Date Received: 06/07/24 15:47

Sample Depth: 1'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Lab Samp

SDG: 03D2	024199	2
nple ID: 890- Matri	6778-6 x: Solid	3
		4
		5
Analyzed	Dil Fac	
06/10/24 17:40	1	6
06/10/24 17:40	1	
06/10/24 17:40	1	7
06/10/24 17:40	1	
06/10/24 17:40	1	8
06/10/24 17:40	1	
Analyzed	Dil Fac	9
06/10/24 17:40	1	
06/10/24 17:40	1	10
Analyzed	Dil Fac	11
06/10/24 17:40	1	12
Analyzed	Dil Fac	13
06/14/24 12:14	1	14
Analyzed	Dil Fac	
06/14/24 12:14	1	
06/14/24 12:14	1	
06/14/24 12:14	1	

Aylenes, Total	~0.00404	0	0.00404	nig/itg		00/10/24 00.42	00/10/24 17.40	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			06/10/24 08:42	06/10/24 17:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130			06/10/24 08:42	06/10/24 17:40	1
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/10/24 17:40	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/24 12:14	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (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		06/13/24 13:35	06/14/24 12:14	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		06/13/24 13:35	06/14/24 12:14	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/24 13:35	06/14/24 12:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			06/13/24 13:35	06/14/24 12:14	1
o-Terphenyl _	85		70 - 130			06/13/24 13:35	06/14/24 12:14	1
Method: EPA 300.0 - Anions, lor	n Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		5.04	mg/Kg			06/11/24 04:15	1
Client Sample ID: SW 01						Lab Sar	nple ID: 890-	6778-7
Date Collected: 06/07/24 13:42							Matri	x: Solid
Date Received: 06/07/24 15:47								
Sample Depth: 0 - 4'								
- Method: SW846 8021B - Volatile	e Organic Comp	ounds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/10/24 08:42	06/10/24 18:00	1

4-Bromofluorobenzene (Surr)	104		70 - 130		06/10/24 08:42	06/10/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00403 L	U	0.00403	mg/Kg	06/10/24 08:42	06/10/24 18:00	1
o-Xylene	<0.00202 L	U	0.00202	mg/Kg	06/10/24 08:42	06/10/24 18:00	1
m-Xylene & p-Xylene	<0.00403 L	U	0.00403	mg/Kg	06/10/24 08:42	06/10/24 18:00	1
Ethylbenzene	<0.00202 L	U	0.00202	mg/Kg	06/10/24 08:42	06/10/24 18:00	1
Toluene	<0.00202 L	U	0.00202	mg/Kg	06/10/24 08:42	06/10/24 18:00	1
Benzene	<0.00202 L	U	0.00202	mg/Kg	06/10/24 08:42	06/10/24 18:00	1

Client Sample Results

Job ID: 890-6778-1 SDG: 03D2024199

Client Sample ID: SW 01

Project/Site: BUCK FEDERAL CTB

Date Collected: 06/07/24 13:42

Client: Ensolum

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Date Received: 06/07/24 15:47 Sample Depth: 0 - 4'

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

Lab	Sample	ID:	890-67	78-7
			Matrix	Solid

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued) %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 06/10/24 08:42 100 06/10/24 18:00 Method: TAL SOP Total BTEX - Total BTEX Calculation Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00403 U 0.00403 06/10/24 18:00 mg/Kg Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL Unit D Prepared Analyzed Dil Fac 49.8 mg/Kg 06/14/24 12:31 93.7 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier D RL Unit Prepared Analyzed Dil Fac <49.8 U 49.8 06/13/24 13:35 06/14/24 12:31 mg/Kg 49.8 mg/Kg 06/13/24 13:35 06/14/24 12:31 93.7 06/13/24 13:35 <49.8 U 49.8 mg/Kg 06/14/24 12:31 %Recovery Qualifier Limits Prepared Analyzed Dil Fac 87 70 - 130 06/13/24 13:35 06/14/24 12:31 06/13/24 13:35 06/14/24 12:31 88 70 - 130 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.97 06/11/24 04:21 98.9 mg/Kg 1 Lab Sample ID: 890-6778-8 Matrix: Solid

Client Sample ID: SW 04

Date Collected: 06/07/24 12:42 Date Received: 06/07/24 15:47 Sample Depth: 0 - 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		06/10/24 08:42	06/10/24 18:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/10/24 08:42	06/10/24 18:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/10/24 08:42	06/10/24 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/10/24 08:42	06/10/24 18:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/10/24 08:42	06/10/24 18:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/10/24 08:42	06/10/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			06/10/24 08:42	06/10/24 18:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130			06/10/24 08:42	06/10/24 18:21	1
- Method: TAL SOP Total BTEX - 1	otal BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/10/24 18:21	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

Job ID: 890-6778-1 SDG: 03D2024199

Matrix: Solid

5

Lab Sample ID: 890-6778-8

Client Sample ID: SW 04

Project/Site: BUCK FEDERAL CTB

Date Collected: 06/07/24 12:42 Date Received: 06/07/24 15:47

Sample

Client: Ensolum

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		06/13/24 13:35	06/14/24 12:48	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		06/13/24 13:35	06/14/24 12:48	
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/13/24 13:35	06/14/24 12:48	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	84		70 - 130			06/13/24 13:35	06/14/24 12:48	
o-Terphenyl	80		70 - 130			06/13/24 13:35	06/14/24 12:48	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	313		5.02	mg/Kg			06/11/24 04:27	1	

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	4
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-44504-A-2-D MS	Matrix Spike	101	99		
880-44504-A-2-E MSD	Matrix Spike Duplicate	103	99		6
890-6771-A-1-B MS	Matrix Spike	102	99		
890-6771-A-1-C MSD	Matrix Spike Duplicate	102	100		7
890-6778-1	FS 01	275 S1+	94		
890-6778-2	FS 02	344 S1+	86		8
890-6778-3	FS 03	332 S1+	100		
890-6778-4	FS 04	145 S1+	99		0
890-6778-5	FS 05	104	102		3
890-6778-6	FS 06	103	99		40
890-6778-7	SW 01	104	100		IU
890-6778-8	SW 04	108	103		
LCS 880-82725/1-A	Lab Control Sample	102	100		11
LCS 880-82870/1-A	Lab Control Sample	103	99		
LCSD 880-82725/2-A	Lab Control Sample Dup	100	99		12
LCSD 880-82870/2-A	Lab Control Sample Dup	103	100		
MB 880-82725/5-A	Method Blank	102	97		13
MB 880-82870/5-A	Method Blank	104	97		
Surrogate Legend					14

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 Lab Sample ID **Client Sample ID** (70-130) (70-130) 890-6778-1 FS 01 89 93 FS 01 890-6778-1 MS 85 97 890-6778-1 MSD FS 01 101 84 890-6778-2 FS 02 96 99 890-6778-3 FS 03 98 97 890-6778-4 FS 04 98 89

890-6778-5	FS 05	88	90
890-6778-6	FS 06	88	85
890-6778-7	SW 01	87	88
890-6778-8	SW 04	84	80
LCS 880-83118/2-A	Lab Control Sample	102	87
LCSD 880-83118/3-A	Lab Control Sample Dup	122	103
MB 880-83118/1-A	Method Blank	180 S1+	168 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82725/5-A	
Matrix: Solid	

Matrix: Solid Analysis Batch: 82719

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/10/24 08:42	06/10/24 11:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/10/24 08:42	06/10/24 11:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/10/24 08:42	06/10/24 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/10/24 08:42	06/10/24 11:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/10/24 08:42	06/10/24 11:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/10/24 08:42	06/10/24 11:39	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			06/10/24 08:42	06/10/24 11:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130			06/10/24 08:42	06/10/24 11:39	1

Lab Sample ID: LCS 880-82725/1-A Matrix: Solid

Analysis Batch: 82719

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	
Toluene	0.100	0.09534		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.09619		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.2010		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.09931		mg/Kg		99	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-82725/2

Matrix: Solid

Analysis Batch: 82719							Prep	Batch:	82725
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1011		mg/Kg		101	70 - 130	0	35
Toluene	0.100	0.09496		mg/Kg		95	70 - 130	0	35
Ethylbenzene	0.100	0.09610		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130	0	35
o-Xylene	0.100	0.09956		mg/Kg		100	70 - 130	0	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-6771-A-1-B MS

Matrix: Solid alvaia Bataby 92740

Analysis Batch: 82719									Prep	Batch: 82725
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.09515		mg/Kg		96	70 - 130	
Toluene	<0.00199	U	0.0996	0.08875		mg/Kg		89	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

13

SDG: 03D2024199 **Client Sample ID: Method Blank**

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 82725

Client Sample ID: Lab Control Sample

Prep Batch: 82725

Job ID: 890-6778-1

		0.100	0.09534		mg/Kg		95	70 - 130		
		0.100	0.09619		mg/Kg		96	70 - 130		
		0.200	0.2010		mg/Kg		100	70 - 130		
		0.100	0.09931		mg/Kg		99	70 - 130		
LCS	LCS									
%Recovery	Qualifier	Limits								
102		70 - 130								
100		70 - 130								
/2-A					Clier	nt Sam	nle ID: I	Lab Contro	l Sampl	e Dun
					Chici	it our			ype: To	
									Batch:	
		Spike	LCSD	LCSD				%Rec		RPD
		Spike Added		LCSD Qualifier	Unit	D	%Rec		RPD	
					 mg/Kg	<u>D</u>	%Rec 101	%Rec		RPD
		Added	Result			D		%Rec Limits	RPD	RPD Limit
		Added	Result 0.1011		mg/Kg	<u>D</u>	101	%Rec Limits 70 - 130	RPD	RPD Limit 35
		Added 0.100 0.100	Result 0.1011 0.09496		mg/Kg mg/Kg	<u>D</u>	101 95	%Rec Limits 70 - 130 70 - 130	RPD 0 0	RPD Limit 35 35
		Added 0.100 0.100 0.100	Result 0.1011 0.09496 0.09610		mg/Kg mg/Kg mg/Kg	<u> </u>	101 95 96	%Rec Limits 70 - 130 70 - 130 70 - 130	RPD 0 0 0	RPD Limit 35 35 35
LCSD	LCSD	Added 0.100 0.100 0.100 0.200	Result 0.1011 0.09496 0.09610 0.2006		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	101 95 96 100	%Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RPD 0 0 0 0 0	RPD Limit 35 35 35 35
LCSD %Recovery		Added 0.100 0.100 0.100 0.200	Result 0.1011 0.09496 0.09610 0.2006		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	101 95 96 100	%Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RPD 0 0 0 0 0	RPD Limit 35 35 35 35
		Added 0.100 0.100 0.100 0.200 0.100	Result 0.1011 0.09496 0.09610 0.2006		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	101 95 96 100	%Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RPD 0 0 0 0 0	RPD Limit 35 35 35 35

QC Sample Results

MS MS

0.08871

0.1857

0.09176

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

Limits 70 - 130

70 - 130

Client: Ensolum Project/Site: BUCK FEDERAL CTB

Lab Sample ID: 890-6771-A-1-B MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 82719

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

Sample Sample

<0.00199

<0.00398 U

<0.00199 U

102

99

%Recovery

Result Qualifier

U

MS MS

Qualifier

Job ID: 890-6778-1 SDG: 03D2024199

Prep Type: Total/NA

Prep Batch: 82725

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

89

93

92

D

7

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Client Sample ID: Method Blank

06/11/24 11:10

Client Sample ID: Lab Control Sample

06/11/24 08:39

Prep Type: Total/NA

Prep Batch: 82870

Matrix: Solid Analysis Batch: 82719

Lab Sample ID: 890-6771-A-1-C MSD

Analysis Batch: 82719									Prep	Batch:	82725	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00199	U	0.0990	0.09957		mg/Kg		101	70 - 130	5	35	
Toluene	<0.00199	U	0.0990	0.09313		mg/Kg		94	70 - 130	5	35	ï
Ethylbenzene	<0.00199	U	0.0990	0.09298		mg/Kg		94	70 - 130	5	35	
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1951		mg/Kg		99	70 - 130	5	35	ŝ
o-Xylene	<0.00199	U	0.0990	0.09606		mg/Kg		97	70 - 130	5	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-82870/5-A Matrix: Solid Analysis Batch: 82868

	IVIB	INIB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/11/24 08:39	06/11/24 11:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/11/24 08:39	06/11/24 11:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/11/24 08:39	06/11/24 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/11/24 08:39	06/11/24 11:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/11/24 08:39	06/11/24 11:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/11/24 08:39	06/11/24 11:10	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			06/11/24 08:39	06/11/24 11:10	1

70 - 130

4-Bromonuorobenzene (Surr)	104	
1,4-Difluorobenzene (Surr)	97	
_		

Lab Sample ID: LCS 880-82870/1-A Matrix: Solid Analysis Batch: 82868

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09214		mg/Kg		92	70 - 130	
Toluene	0.100	0.08856		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09085		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	

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Prep Type: Total/NA

Prep Batch: 82870

Page 142 of 188

Released to Imaging: 7/15/2024 3:24:33 PM

1

QC Sample Results

Client: Ensolum Project/Site: BUCK FEDERAL CTB

Lab Sample ID: LCS 880-82870/1-A

Job ID: 890-6778-1 SDG: 03D2024199

Client Sample ID: Lab Control Sample

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

Lab Sample ID: LCS 000-02	0/U/I-A										
Matrix: Solid										ype: Tot	
Analysis Batch: 82868									Prep	Batch:	82870
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
o-Xylene			0.100	0.09505		mg/Kg		95	70 - 130		
	LCS	105									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)		quamer	70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
.,											
Lab Sample ID: LCSD 880-8	32870/2-A					Clier	nt Sam	ple ID: I	Lab Contro	I Sample	e Dup
Matrix: Solid										ype: Tot	
Analysis Batch: 82868									Prep	Batch:	82870
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09289		mg/Kg		93	70 - 130	1	35
Toluene			0.100	0.08921		mg/Kg		89	70 - 130	1	35
Ethylbenzene			0.100	0.09151		mg/Kg		92	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1906		mg/Kg		95	70 - 130	0	35
o-Xylene			0.100	0.09552		mg/Kg		96	70 - 130	0	35
	LCSD										
	%Recovery	Qualifier	Limits								
		Quanner									
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	103 100	quanner	70 - 130 70 - 130 70 - 130								
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-J	103 100	Quanner	70 - 130					Client	Sample ID Prep T		
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid	103 100	Quamer	70 - 130					Client	Prep T	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid	103 100		70 - 130	MS	MS			Client	Prep T		al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868	103 100 A-2-D MS Sample		70 - 130 70 - 130		MS Qualifier	Unit	D	Client %Rec	Prep T Prep	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte	103 100 A-2-D MS Sample	Sample Qualifier	70 - 130 70 - 130 Spike			- <mark>Unit</mark> mg/Kg	D		Prep T Prep %Rec	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene	103 100 A-2-D MS Sample Result	Sample Qualifier U	70 - 130 70 - 130 Spike Added	Result			D	%Rec	Prep T Prep %Rec Limits	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene	103 100 A-2-D MS Sample Result <0.00199	Sample Qualifier U U	70 - 130 70 - 130 Spike Added 0.0996	Result 0.09893		mg/Kg	D	%Rec 99	Prep T Prep %Rec Limits 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene	103 100 A-2-D MS Sample Result <0.00199 <0.00199	Sample Qualifier U U U	70 - 130 70 - 130 Spike Added 0.0996 0.0996	Result 0.09893 0.09485		mg/Kg mg/Kg	D	%Rec 99 95	Prep T Prep %Rec Limits 70 - 130 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199	Sample Qualifier U U U	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.0996	Result 0.09893 0.09485 0.09715		mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 99 95 98	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Sample Qualifier U U U U U	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.0996 0.199	Result 0.09893 0.09485 0.09715 0.2026		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 99 95 98 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS	Sample Qualifier U U U U U U U MS	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996	Result 0.09893 0.09485 0.09715 0.2026		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 99 95 98 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery	Sample Qualifier U U U U U U U MS	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199	Result 0.09893 0.09485 0.09715 0.2026		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 99 95 98 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 101	Sample Qualifier U U U U U U U MS	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996	Result 0.09893 0.09485 0.09715 0.2026		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 99 95 98 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery	Sample Qualifier U U U U U U U MS	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199	Result 0.09893 0.09485 0.09715 0.2026		mg/Kg mg/Kg mg/Kg mg/Kg	D	%Rec 99 95 98 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 101 99	Sample Qualifier U U U U U U U MS	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996	Result 0.09893 0.09485 0.09715 0.2026		mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 99 95 98 102 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot Batch: :	licate
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 101 99	Sample Qualifier U U U U U U U MS	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996	Result 0.09893 0.09485 0.09715 0.2026		mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 99 95 98 102 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Dike Dup	licate
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <i>0.00398</i> <0.00199 <i>MS</i> <i>%Recovery</i> 101 99 A-2-E MSD	Sample Qualifier U U U U U U MS Qualifier	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996	Result 0.09893 0.09485 0.09715 0.2026 0.1011	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 99 95 98 102 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Prep T	ype: Tot Batch: :	licate al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <i>Sample</i> A-2-E MSD Sample	Sample Qualifier U U U U MS Qualifier	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130 70 - 130 70 - 130	Result 0.09893 0.09485 0.09715 0.2026 0.1011 MSD	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 99 95 98 102 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Prep T Prep %Rec	Dike Dup Batch: 1 Dike Dup Dype: Tot Batch: 1	licate al/NA B2870 RPD
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <i>Solution</i> <i>Solution</i> 99 A-2-E MSD Sample Result	Sample Qualifier U U U U MS Qualifier Sample Qualifier	70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 0.09893 0.09485 0.09715 0.2026 0.1011	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg Cl		%Rec 99 95 98 102 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Prep T Prep %Rec Limits	bike Dup ype: Tot bike Dup ype: Tot Batch: 1 RPD	licate al/NA 32870 s2870 s2870 s2870 s2870 s2870 s2870 s2870 s2870 s2870 s2870 s2870 s2870 s2870
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <i>MS</i> <i>%Recovery</i> 101 99 A-2-E MSD Sample Result <0.00199	Sample Qualifier U U U U U MS Qualifier U	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 Limits 70 - 130 70 - 130 Spike Added 0.0990	Result 0.09893 0.09485 0.09715 0.2026 0.1011 MSD Result 0.09444	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg Cl Unit mg/Kg	ient Sa	%Rec 99 95 98 102 102 102	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Prep %Rec Limits 70 - 130	Dike Dup Type: Tot Dike Dup Type: Tot Batch: 1 RPD 5	licate al/NA B2870 licate al/NA B2870 RPD Limit 35
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene	A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 MS %Recovery 101 99 A-2-E MSD Sample Result <0.00199 <0.00199 <0.00199 	Sample Qualifier U U U U U MS Qualifier U U U	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.0990 0.0990	Result 0.09893 0.09485 0.09715 0.2026 0.1011 MSD Result 0.09444 0.09087	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 99 95 98 102 102 102 mple ID %Rec 95 92	Prep T Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130	bike Dup ype: Tot Dike Dup ype: Tot Batch: 1 RPD 5 4	licate al/NA 32870 licate al/NA 32870 RPD Limit 35 35
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene	103 100 A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <i>MS</i> <i>%Recovery</i> 101 99 A-2-E MSD Sample Result <0.00199	Sample Qualifier U U U U U MS Qualifier U U U	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 Limits 70 - 130 70 - 130 70 - 130 0.0990 0.0990 0.0990 0.0990	Result 0.09893 0.09485 0.09715 0.2026 0.1011 MSD Result 0.09444 0.09087 0.09342	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 99 95 98 102 102 102	Prep T Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Dike Dup Type: Tot Dike Dup Type: Tot Batch: 1 RPD 5	licate al/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-44504-/ Matrix: Solid Analysis Batch: 82868 Analyte Benzene Toluene	A-2-D MS Sample Result <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 MS %Recovery 101 99 A-2-E MSD Sample Result <0.00199 <0.00199 <0.00199 	Sample Qualifier U U U U U U MS Qualifier U U U U	70 - 130 70 - 130 70 - 130 Spike Added 0.0996 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 0.199 0.0996 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.0990 0.0990	Result 0.09893 0.09485 0.09715 0.2026 0.1011 MSD Result 0.09444 0.09087	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 99 95 98 102 102 102 mple ID %Rec 95 92	Prep T Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130	bike Dup ype: Tot Dike Dup ype: Tot Batch: 1 RPD 5 4	licate al/NA B2870 licate cal/NA B2870 RPD Limit 35 35

Project/Site: BUCK FEDERAL CTB

Client: Ensolum

QC Sample Results

Job ID: 890-6778-1 SDG: 03D2024199

Method: 8021B - Volatile O	rganic Comp	ounas		uea)							
Lab Sample ID: 880-44504-A-2 Matrix: Solid	-E MSD						Client	Sample		Type: 1	Total/NA
Analysis Batch: 82868									Pre	p Batch	1: 82870
	MSD M	SD									
Surrogate	%Recovery Q	ıalifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
lethod: 8015B NM - Diese	I Range Orga	anics (C	RO) (GC)								
Lab Sample ID: MB 880-83118	/1-A							Client	Sample ID	: Metho	d Blank
Matrix: Solid									Prep	Type: 1	otal/N/
Analysis Batch: 83187									Pre	p Batch	n: 83118
	м	в мв									
Analyte	Resu	lt Qualifie	r RL		Uni	t	<u>D</u>	Prepared	Anal	yzed	Dil Fac
Gasoline Range Organics	<50.	0 U	50.0		mg/	ΊKg	0	6/13/24 13:	35 06/14/2	4 08:13	1
(GRO)-C6-C10	50		50.0								
Diesel Range Organics (Over	<50.	0 U	50.0		mg/	Kg	0	6/13/24 13:	35 06/14/2	4 08:13	
C10-C28) Oil Range Organics (Over C28-C36)	<50.	0 U	50.0		mg/	Кg	0	6/13/24 13:	35 06/14/2	4 08:13	
	м	в МВ									
Surrogate	%Recover	y Qualifie	r Limits					Prepared	Anal	vzed	Dil Fac
1-Chlorooctane	18	<u> </u>	70 - 130				0	6/13/24 13:			
o-Terphenyl	16	8 S1+	70 - 130				0	6/13/24 13:	35 06/14/2	4 08:13	1
Lab Sample ID: LCS 880-83118 Matrix: Solid Analysis Batch: 83187	3/2-A		Spike	LCS	LCS		Clie	nt Samp		Control Type: 1 p Batch	Fotal/NA
Analyte			Added	Result	Qualifier	Unit	I	D %Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	904.2		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	929.8		mg/Kg		93	70 - 130		
	LCS LC										
Surrogate	%Recovery Q	alifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	87		70 - 130								
Lab Sample ID: LCSD 880-831 Matrix: Solid	18/3-A					C	lient Sa	ample ID	Lab Conti Pren		ple Dup Fotal/NA
Analysis Batch: 83187									Pre	p Batch	n: 83118
Arrahas			Spike		LCSD			- «-	%Rec		RPE
Analyte Gasoline Range Organics			Added	1096	Qualifier	Unit mg/Kg		2 %Rec 110	Limits 70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)			1000	1078		mg/Kg		108	70 - 130	15	5 20
	LCSD LC	SD									
Surrogate	%Recovery Q		Limits								
1-Chlorooctane	122		70 - 130								

o-Terphenyl

70 - 130

103
QC Sample Results

MS MS

959.6

864.0 F1

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

90

46

Spike

Added

999

999

Limits 70 - 130

70 - 130

Client: Ensolum Project/Site: BUCK FEDERAL CTB

Lab Sample ID: 890-6778-1 MS

Lab Sample ID: 890-6778-1 MSD

Analysis Batch: 83187

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 83187

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

o-Terphenyl

1-Chlorooctane

Matrix: Solid

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

Sample Sample

408 F1

MS MS

97

85

84

Qualifier

63.0

%Recovery

Result Qualifier

Client Sample ID: FS 01

%Rec

Limits

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 83118

5
7
8
9

Client Sample ID: FS 01
Prep Type: Total/NA
Prep Batch: 83118

гіер	Type.	101	aiina
Pre	p Bato	:h: 8	83118
%Rec			RPD

Limit 20

20

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	63.0		998	1062		mg/Kg		100	70 - 130	10
Diesel Range Organics (Over C10-C28)	408	F1	998	884.5	F1	mg/Kg		48	70 - 130	2
	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	101		70 - 130							

70 - 130

Method:	300.0 -	Anions	lon	Chromatography
methou.	500.0 -	Allons,	IOII	omonatography

Lab Sample ID: MB 880-82779/1-A									Client S	Sample ID: M		
Matrix: Solid										Prep Ty	/pe: So	oluble
Analysis Batch: 82808												
	MB	MB										
Analyte	Result	Qualifier		RL		Unit		D F	Prepared	Analyzec	I	Dil Fa
Chloride	<5.00	U		5.00		mg/K	g			06/11/24 01	:30	
Lab Sample ID: LCS 880-82779/2-A								Clien	t Sample	e ID: Lab Con	trol Sa	ample
Matrix: Solid										Prep Ty	/pe: So	oluble
Analysis Batch: 82808												
-			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250		238.9		mg/Kg		96	90 - 110		
Lab Sample ID: LCSD 880-82779/3-A							CI	ient San	nple ID:	Lab Control	Sample	e Dup
Matrix: Solid										Prep Ty	/pe: So	oluble
Analysis Batch: 82808												
			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		242.7		mg/Kg		97	90 - 110	2	20

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QC Sample Results

Client: Ensolum Project/Site: BUCK FEDERAL CTB Job ID: 890-6778-1 SDG: 03D2024199

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-6778-1 MS Matrix: Solid									Client San Prep	nple ID: Type: S	
Analysis Batch: 82808											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	71.5		248	301.4		mg/Kg		93	90 - 110		
Lab Sample ID: 890-6778-1 MSD									Client San	nple ID:	FS 01
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 82808											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	71.5		248	296.3		mg/Kg		91	90 - 110	2	20

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Client: Ensolum Project/Site: BUCK FEDERAL CTB

5

Job ID: 890-6778-1 SDG: 03D2024199

GC VOA

Analysis Batch: 82719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6778-1	FS 01	Total/NA	Solid	8021B	82725
890-6778-2	FS 02	Total/NA	Solid	8021B	82725
890-6778-3	FS 03	Total/NA	Solid	8021B	82725
890-6778-4	FS 04	Total/NA	Solid	8021B	82725
890-6778-5	FS 05	Total/NA	Solid	8021B	82725
890-6778-6	FS 06	Total/NA	Solid	8021B	82725
890-6778-7	SW 01	Total/NA	Solid	8021B	82725
890-6778-8	SW 04	Total/NA	Solid	8021B	82725
MB 880-82725/5-A	Method Blank	Total/NA	Solid	8021B	82725
LCS 880-82725/1-A	Lab Control Sample	Total/NA	Solid	8021B	82725
LCSD 880-82725/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	82725
890-6771-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	82725
890-6771-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	82725

Prep Batch: 82725

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-6778-1	FS 01	Total/NA	Solid	5035	
890-6778-2	FS 02	Total/NA	Solid	5035	
890-6778-3	FS 03	Total/NA	Solid	5035	
890-6778-4	FS 04	Total/NA	Solid	5035	
890-6778-5	FS 05	Total/NA	Solid	5035	
890-6778-6	FS 06	Total/NA	Solid	5035	
890-6778-7	SW 01	Total/NA	Solid	5035	
890-6778-8	SW 04	Total/NA	Solid	5035	
MB 880-82725/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-82725/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-82725/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6771-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6771-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 82854

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-6778-1	FS 01	Total/NA	Solid	Total BTEX	
890-6778-2	FS 02	Total/NA	Solid	Total BTEX	
890-6778-3	FS 03	Total/NA	Solid	Total BTEX	
890-6778-4	FS 04	Total/NA	Solid	Total BTEX	
890-6778-5	FS 05	Total/NA	Solid	Total BTEX	
890-6778-6	FS 06	Total/NA	Solid	Total BTEX	
890-6778-7	SW 01	Total/NA	Solid	Total BTEX	
890-6778-8	SW 04	Total/NA	Solid	Total BTEX	

Analysis Batch: 82868

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-6778-2	FS 02	Total/NA	Solid	8021B	82870
MB 880-82870/5-A	Method Blank	Total/NA	Solid	8021B	82870
LCS 880-82870/1-A	Lab Control Sample	Total/NA	Solid	8021B	82870
LCSD 880-82870/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	82870
880-44504-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	82870
880-44504-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	82870

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Page 147 of 188

Client: Ensolum Project/Site: BUCK FEDERAL CTB Job ID: 890-6778-1

SDG: 03D2024199

GC VOA

Prep Batch: 82870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6778-2	FS 02	Total/NA	Solid	5035	
MB 880-82870/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-82870/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-82870/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44504-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
880-44504-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 83118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6778-1	FS 01	Total/NA	Solid	8015NM Prep	
890-6778-2	FS 02	Total/NA	Solid	8015NM Prep	
890-6778-3	FS 03	Total/NA	Solid	8015NM Prep	
890-6778-4	FS 04	Total/NA	Solid	8015NM Prep	
890-6778-5	FS 05	Total/NA	Solid	8015NM Prep	
890-6778-6	FS 06	Total/NA	Solid	8015NM Prep	
890-6778-7	SW 01	Total/NA	Solid	8015NM Prep	
890-6778-8	SW 04	Total/NA	Solid	8015NM Prep	
MB 880-83118/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83118/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6778-1 MS	FS 01	Total/NA	Solid	8015NM Prep	
890-6778-1 MSD	FS 01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6778-1	FS 01	Total/NA	Solid	8015B NM	83118
890-6778-2	FS 02	Total/NA	Solid	8015B NM	83118
890-6778-3	FS 03	Total/NA	Solid	8015B NM	83118
890-6778-4	FS 04	Total/NA	Solid	8015B NM	83118
890-6778-5	FS 05	Total/NA	Solid	8015B NM	83118
890-6778-6	FS 06	Total/NA	Solid	8015B NM	83118
890-6778-7	SW 01	Total/NA	Solid	8015B NM	83118
890-6778-8	SW 04	Total/NA	Solid	8015B NM	83118
MB 880-83118/1-A	Method Blank	Total/NA	Solid	8015B NM	83118
LCS 880-83118/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83118
LCSD 880-83118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83118
890-6778-1 MS	FS 01	Total/NA	Solid	8015B NM	83118
890-6778-1 MSD	FS 01	Total/NA	Solid	8015B NM	83118

Analysis Batch: 83268

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-6778-1	FS 01	Total/NA	Solid	8015 NM	
890-6778-2	FS 02	Total/NA	Solid	8015 NM	
890-6778-3	FS 03	Total/NA	Solid	8015 NM	
890-6778-4	FS 04	Total/NA	Solid	8015 NM	
890-6778-5	FS 05	Total/NA	Solid	8015 NM	
890-6778-6	FS 06	Total/NA	Solid	8015 NM	
890-6778-7	SW 01	Total/NA	Solid	8015 NM	
890-6778-8	SW 04	Total/NA	Solid	8015 NM	

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5

Client: Ensolum Project/Site: BUCK FEDERAL CTB Page 149 of 188

Job ID: 890-6778-1 SDG: 03D2024199

HPLC/IC

Leach Batch: 82779

			-		
each Batch: 82779					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6778-1	FS 01	Soluble	Solid	DI Leach	
890-6778-2	FS 02	Soluble	Solid	DI Leach	
890-6778-3	FS 03	Soluble	Solid	DI Leach	
890-6778-4	FS 04	Soluble	Solid	DI Leach	
890-6778-5	FS 05	Soluble	Solid	DI Leach	
890-6778-6	FS 06	Soluble	Solid	DI Leach	
890-6778-7	SW 01	Soluble	Solid	DI Leach	
890-6778-8	SW 04	Soluble	Solid	DI Leach	
MB 880-82779/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-82779/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-82779/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6778-1 MS	FS 01	Soluble	Solid	DI Leach	
890-6778-1 MSD	FS 01	Soluble	Solid	DI Leach	

Analysis Batch: 82808

890-6778-7	500 01	Soluble	Solid	Di Leach		1.00
890-6778-8	SW 04	Soluble	Solid	DI Leach		8
MB 880-82779/1-A	Method Blank	Soluble	Solid	DI Leach		
_CS 880-82779/2-A	Lab Control Sample	Soluble	Solid	DI Leach		9
.CSD 880-82779/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
90-6778-1 MS	FS 01	Soluble	Solid	DI Leach		
90-6778-1 MSD	FS 01	Soluble	Solid	DI Leach		
nalysis Batch: 82808						
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
90-6778-1	FS 01	Soluble	Solid	300.0	82779	
90-6778-2	FS 02	Soluble	Solid	300.0	82779	10
90-6778-3	FS 03	Soluble	Solid	300.0	82779	13
90-6778-4	FS 04	Soluble	Solid	300.0	82779	
90-6778-5	FS 05	Soluble	Solid	300.0	82779	
90-6778-6	FS 06	Soluble	Solid	300.0	82779	
90-6778-7	SW 01	Soluble	Solid	300.0	82779	
90-6778-8	SW 04	Soluble	Solid	300.0	82779	
B 880-82779/1-A	Method Blank	Soluble	Solid	300.0	82779	
CS 880-82779/2-A	Lab Control Sample	Soluble	Solid	300.0	82779	
CSD 880-82779/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	82779	
90-6778-1 MS	FS 01	Soluble	Solid	300.0	82779	
90-6778-1 MSD	FS 01	Soluble	Solid	300.0	82779	

Job ID: 890-6778-1 SDG: 03D2024199

Lab Sample ID: 890-6778-1 Matrix: Solid

Lab Sample ID: 890-6778-2

Lab Sample ID: 890-6778-3

Matrix: Solid

Matrix: Solid

Date Collected: 06/06/24 13:14 Date Received: 06/07/24 15:47

Client Sample ID: FS 01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/10/24 14:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			83268	06/14/24 10:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 10:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 03:18	СН	EET MID

Client Sample ID: FS 02 Date Collected: 06/06/24 13:15

Date Received: 06/07/24 15:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 14:23	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	82870	06/11/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	82868	06/11/24 15:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/11/24 15:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			83268	06/14/24 11:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 11:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 03:37	СН	EET MID

Client Sample ID: FS 03 Date Collected: 06/06/24 13:16 Date Received: 06/07/24 15:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 16:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/10/24 16:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			83268	06/14/24 11:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 11:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 03:43	СН	EET MID

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5

9

Job ID: 890-6778-1 SDG: 03D2024199

Lab Sample ID: 890-6778-4 Matrix: Solid

Lab Sample ID: 890-6778-5

Lab Sample ID: 890-6778-6

Lab Sample ID: 890-6778-7

Matrix: Solid

Matrix: Solid

Date Collected: 06/06/24 13:17 Date Received: 06/07/24 15:47

Client Sample ID: FS 04

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/10/24 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			83268	06/14/24 11:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 11:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 04:02	СН	EET MID

Client Sample ID: FS 05

Date Collected: 06/06/24 12:30

Date Received: 06/07/24 15:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 17:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/10/24 17:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			83268	06/14/24 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 11:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 04:08	СН	EET MID

Client Sample ID: FS 06

Date Collected: 06/06/24 12:40

Date Received: 06/07/24 15:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/10/24 17:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			83268	06/14/24 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 12:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 04:15	СН	EET MID

Client Sample ID: SW 01 Date Collected: 06/07/24 13:42 Date Received: 06/07/24 15:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/10/24 18:00	SM	EET MID

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Matrix: Solid

Job ID: 890-6778-1 SDG: 03D2024199

Lab Sample ID: 890-6778-7 Matrix: Solid

Lab Sample ID: 890-6778-8

Matrix: Solid

Client Sample ID: SW 01 Date Collected: 06/07/24 13:42 Date Received: 06/07/24 15:47

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			83268	06/14/24 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 12:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 04:21	СН	EET MID

Client Sample ID: SW 04 Date Collected: 06/07/24 12:42

Date Received: 06/07/24 15:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	82725	06/10/24 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82719	06/10/24 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82854	06/10/24 18:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			83268	06/14/24 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83118	06/13/24 13:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83187	06/14/24 12:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	82779	06/10/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82808	06/11/24 04:27	СН	EET MID

Laboratory References:

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

0-6778-1 2024199 -6778-7 rix: Solid Laboratory: Eurofins Midland

Job ID: 890-6778-1 SDG: 03D2024199

nority	Progra	ım	Identification Number	Expiration Date	
as	NELAF	0	T104704400-23-26	06-30-24	
The following analytes	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This lis	t may include analytes	
• ,	bes not offer certification.				
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

Eurofins Carlsbad

Client: Ensolum

Job ID: 890-6778-1 SDG: 03D2024199

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	rences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 = '	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	dition, 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

Released to Imaging: 7/15/2024 3:24:33 PM

Sample Summary

Collected

06/06/24 13:14

06/06/24 13:15

06/06/24 13:16

06/06/24 13:17

06/06/24 12:30

06/06/24 12:40

06/07/24 13:42

06/07/24 12:42

Received

06/07/24 15:47

06/07/24 15:47

06/07/24 15:47

06/07/24 15:47

06/07/24 15:47

06/07/24 15:47

06/07/24 15:47

06/07/24 15:47

Depth

4'

4'

4'

4'

1'

1'

0 - 4'

0 - 1'

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Ensolum Project/Site: BUCK FEDERAL CTB

Lab Sample ID

890-6778-1 890-6778-2

890-6778-3

890-6778-4

890-6778-5

890-6778-6

890-6778-7

890-6778-8

Client Sample ID

FS 01

FS 02

FS 03

FS 04

FS 05

FS 06

SW 01

SW 04

SDG: 03D2024199

Job ID: 890-6778-1

Eurofins Carlsbad 6/14/2024

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8
9
12
13

ANALYSIS REQUEST	Houston, IX (281) 240-4200, Dallas, IX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58/ Hobbs, NM (575) 392 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58/ Hobbs, NM (575) 392 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58/ Hobbs, NM (575) 392 Midlame: Address: Company Name: Bill to: (if different) Address: City, State ZIP: City, State ZIP: In Around Pres. Rush Code Pres. ANALYSIS REQUEST	Houston, TX (281) 240-4200, Dallas, TX (214) 002-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58r Hobbs, NM (575) 392 Bill to: (if different) Company Name: Bill to: (if different) Company Name: Bill to: (if different) Company Name: Bill to: (if different) Bill to: (if different) Company Name: Bill to: (if different) Bill to: (if different)<	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) 58' TV (200) 509-3334 TV (200) 509-3334 TV (200) 509-3334 TV (200) 509-3334 TV (200) 509-3334 TV (200) 509-3334 EL Paso, TX (915) 58' TV (200) 509-3334 TV (200) 509-3334 EL Paso, TX (915) 58' TV (200) 509-3334 EL Paso, TX (915) 592 TV (200) 509-3334 EL Paso, TX (210) 509-334 EL Paso, TX (210) 509-50 EL Paso, TX (210) 509-50 EL P	Industry, 1/(201) 24V-2400, Unlies, TX (210) 509-3334 Work Order No: Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Work Order No: EL Paso, TX (915) 58' TV (an) 794-1296 Hobbs, NM (575) 382 Work Order Comments Company Name: 800-6778 Chain of Custody Address: 800-6778 Chain of Custody In Around ANALYSIS REQUEST Pres. ANALYSIS REQUEST Pres. None: NO Rush Cool: Cool
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58' Hobbs, NM (575) 392 different) y Name: B9C-6778 Chain of Custody te ZIP: B9C-6778 Chain of Custody Deliverat	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58' Hobbs, NM (575) 392 different) y Name: B9C-6778 Chain of Custody te ZIP: B9C-6778 Chain of Custody Deliverat	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58' Hobbs, NM (575) 392 different) y Name: B9C-6778 Chain of Custody te ZIP: B9C-6778 Chain of Custody Deliverat	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58' Hobbs, NM (575) 392 different) y Name: B9C-6778 Chain of Custody te ZIP: B9C-6778 Chain of Custody Deliverat	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 58' Hobbs, NM (575) 392 different) y Name: B9C-6778 Chain of Custody te ZIP: B9C-6778 Chain of Custody Deliverat
1704-5440, San Antonio, TX (210) 509-3334 (5) 587 (5) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 394-1296 (1) 794-1296 (1) 794-1296	1704-5440, San Antonio, TX (210) 509-3334 (5) 587 (5) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 394-1296 (1) 794-1296 (1) 794-1296	1704-5440, San Antonio, TX (210) 509-3334 (5) 587 (5) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 394-1296 (1) 794-1296 (1) 794-1296	1704-5440, San Antonio, TX (210) 509-3334 (5) 587 (5) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 394-1296 (1) 794-1296 (1) 794-1296	1704-5440, San Antonio, TX (210) 509-3334 (5) 587 (5) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 392 (1) 394-1296 (1) 794-1296 (1) 794-1296
TO4-540, San Antonia, TX (210) 509-5000 (5) 58 B90-6778 Chain of Custody ANALYSIS REQUEST	101/241-240, San Antonio, TX (219) 502-0300 (5) 58! B90-6778 Chain of Custody ANALYSIS REQUEST	104-540, San Antonio, TX (219) 502-0300 (5) 58: 59: 890-6778 Chain of Custody ANALYSIS REQUEST ANALYSIS REQUEST	104-540, San Antonia, TX (219) 502-0300 (5) 59: 890-6778 Chain of Custody ANALYSIS REQUEST	104-540, San Antonio, TX (219) 505-0300 (5) 59: 105: 106: 107:
			Sis REQUEST	
			Sis REQUEST	
	Sis REQUEST			
	Sis REQUEST			
	Work Order	Work Order No: Work Order Com Work Order Com Work Order Com ST/PST PRP Brownfielt ect: PRP PST/US EDD ADaPT On EDD ADaPT On HQL ADaPT HQL H43P H43P H34	Work Order No:	Work Order No: Page1c Work Order Comments
	Order Nork On PRP Evel III A	Nork Order Com Nork Order Com PRP Brownfiel PRP Brownfiel ADaPT ADaPT Http://ware	Work Order Comments Nork Order Comments PRP Brownfields RR ADaPT ADaPT Oth Preser None: NO Cool: Cool: H:2: HC H:2: PC4: HP	w.xenco.com Page1c Nork Order Comments PRP Brownfields RRC evel III PST/UST TRRP ADaPT Other: ADaPT Other: Cool: Cool Mone: HCL: HC HN H3PO.;: H2 Nad

13

Released to Imaging: 7/15/2024 3:24:33 PM

Job Number: 890-6778-1 SDG Number: 03D2024199

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 6778 List Number: 1 Creator: Bruns, Shannon

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

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 6778 List Number: 2 Creator: Rodriguez, Leticia

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-6778-1 SDG Number: 03D2024199

List Source: Eurofins Midland List Creation: 06/10/24 09:45 AM



Environment Testing

Page 159 of 188

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 6/18/2024 6:08:52 PM

JOB DESCRIPTION

Buck Federal CTB Lea County, New Mexico

JOB NUMBER

880-44746-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701







Eurofins Midland

Job Notes

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

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

Authorization

AMER

Generated 6/18/2024 6:08:52 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-44746-1 SDG: Lea County, New Mexico

Page 161 of 188

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

Definitions/Glossary

Client: Ensolum
Project/Site: Buck Federal CTB

LOQ

MCL

MDA

MDC

MDL

ML

MPN

MQL

NC ND

NEG

POS

PQL

PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Qualifiers		
		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	8
Glossary		Q
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	10
DL	Detection Limit (DoD/DOE)	13
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)	

Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

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Case Narrative

Client: Ensolum Project: Buck Federal CTB

Job ID: 880-44746-1

Eurofins Midland

Job Narrative 880-44746-1

Page 163 of 188

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/13/2024 2:50 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 3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW02 (880-44746-1), SW03 (880-44746-2), SW05 (880-44746-3), FS07 (880-44746-4) and FS08 (880-44746-5).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-83154 and analytical batch 880-83278 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW02 (880-44746-1), SW03 (880-44746-2), SW05 (880-44746-3), FS07 (880-44746-4), (880-44729-A-11-E), (880-44729-A-11-F MS) and (880-44729-A-11-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-83154 and analytical batch 880-83278 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-83278 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-83278/47).

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.

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-44746-1

Matrix: Solid

5

Client Sample ID: SW02 Date Collected: 06/13/24 10:25 Date Received: 06/13/24 14:50

Project/Site: Buck Federal CTB

Sample Depth: 0-4'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199	mg/Kg		06/14/24 09:16	06/14/24 14:05	1
Toluene	< 0.00199		0.00199	mg/Kg		06/14/24 09:16	06/14/24 14:05	1
Ethylbenzene	<0.00199		0.00199	mg/Kg		06/14/24 09:16	06/14/24 14:05	1
m-Xylene & p-Xylene	< 0.00398		0.00398	mg/Kg		06/14/24 09:16	06/14/24 14:05	1
o-Xylene	< 0.00199		0.00199	mg/Kg		06/14/24 09:16	06/14/24 14:05	1
Xylenes, Total	< 0.00398		0.00398	mg/Kg		06/14/24 09:16	06/14/24 14:05	1
	-0.00000	0	0.00000	ing/itg		00/14/24 00:10	00/14/24 14:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			06/14/24 09:16	06/14/24 14:05	1
1,4-Difluorobenzene (Surr)	102		70 - 130			06/14/24 09:16	06/14/24 14:05	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/14/24 14:05	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8	mg/Kg			06/17/24 23:27	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/13/24 16:25	06/17/24 23:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/13/24 16:25	06/17/24 23:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/13/24 16:25	06/17/24 23:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			06/13/24 16:25	06/17/24 23:27	1
o-Terphenyl	63	S1-	70 - 130			06/13/24 16:25	06/17/24 23:27	1
Method: EPA 300.0 - Anions, Ion	Chromatogram	hy - Solub						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		4.96	mg/Kg			06/14/24 13:23	1
lient Sample ID: SW03						l ah Sam	ple ID: 880-4	4746-2
ment Sample ID. Swo3						Lab Sam	•	
ata Callastadi 06/12/24 10:20							Ividu	ix: Solid
ate Received: 06/13/24 14:50								
ate Collected: 06/13/24 10:30 ate Received: 06/13/24 14:50 ample Depth: 0-4'								
ate Received: 06/13/24 14:50 ample Depth: 0-4' Method: SW846 8021B - Volatile								
ate Received: 06/13/24 14:50 ample Depth: 0-4' Method: SW846 8021B - Volatile Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
ate Received: 06/13/24 14:50 ample Depth: 0-4' Method: SW846 8021B - Volatile Analyte Benzene	Result <0.00198	Qualifier U	RL	mg/Kg	<u>D</u>	06/14/24 09:16	06/14/24 17:13	1
ate Received: 06/13/24 14:50 ample Depth: 0-4' Method: SW846 8021B - Volatile Analyte Benzene Toluene	Result <0.00198 <0.00198	Qualifier U U	RL 0.00198 0.00198	mg/Kg mg/Kg	<u> </u>	06/14/24 09:16 06/14/24 09:16	06/14/24 17:13 06/14/24 17:13	1
ate Received: 06/13/24 14:50 ample Depth: 0-4' Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene	Result <0.00198	Qualifier U U U	RL 0.00198 0.00198 0.00198	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/14/24 09:16 06/14/24 09:16 06/14/24 09:16	06/14/24 17:13 06/14/24 17:13 06/14/24 17:13	1 1 1
ate Received: 06/13/24 14:50	Result <0.00198 <0.00198	Qualifier U U U	RL 0.00198 0.00198	mg/Kg mg/Kg	<u>D</u>	06/14/24 09:16 06/14/24 09:16	06/14/24 17:13 06/14/24 17:13	1

4-Bromofluorobenzene (Surr)	103		70 - 130		06/14/24 09:16	06/14/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00397	U	0.00397	mg/Kg	06/14/24 09:16	06/14/24 17:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg	06/14/24 09:16	06/14/24 17:13	1

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Released to Imaging: 7/15/2024 3:24:33 PM

Matrix: Solid

5

Client Sample Results

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-44746-2

Client Sample ID: SW03

Project/Site: Buck Federal CTB

Date Collected: 06/13/24 10:30 Date Receiv

Sample Depth: 0-4

Client: Ensolum

cleu. 00/13/24 10.30	
ived: 06/13/24 14:50	
onth: 0.4	

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130			06/14/24 09:16	06/14/24 17:13	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			06/14/24 17:13	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.3		49.9	mg/Kg			06/17/24 23:43	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (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		06/13/24 16:25	06/17/24 23:43	1
Diesel Range Organics (Over C10-C28)	53.3		49.9	mg/Kg		06/13/24 16:25	06/17/24 23:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/24 16:25	06/17/24 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130			06/13/24 16:25	06/17/24 23:43	1
o-Terphenyl	65	S1-	70 - 130			06/13/24 16:25	06/17/24 23:43	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.7		5.00	mg/Kg			06/14/24 12:48	1

Date Collected: 06/13/24 10:35 Date Received: 06/13/24 14:50 Sample Depth: 0-4'

Matrix: Solid

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/14/24 09:16	06/14/24 17:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/14/24 09:16	06/14/24 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			06/14/24 09:16	06/14/24 17:34	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/14/24 09:16	06/14/24 17:34	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/14/24 17:34	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.1		49.9	mg/Kg			06/17/24 23:59	1

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Client Sample Results

SDG: Lea County, New Mexico

Lab Sample ID: 880-44746-3

Lab Sample ID: 880-44746-4

Matrix: Solid

Project/Site: Buck Federal CTB **Client Sample ID: SW05**

Date Collected: 06/13/24 10:35 Date Received: 06/13/24 14:50

Sample Depth: 0-4'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/13/24 16:25	06/17/24 23:59	1
Diesel Range Organics (Over C10-C28)	57.1		49.9	mg/Kg		06/13/24 16:25	06/17/24 23:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/24 16:25	06/17/24 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			06/13/24 16:25	06/17/24 23:59	1
o-Terphenyl	66	S1-	70 - 130			06/13/24 16:25	06/17/24 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199	5.02	mg/Kg			06/14/24 12:53	1

Client Sample ID: FS07

Date Collected: 06/13/24 10:40

Date Received: 06/13/24 14:50

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/14/24 09:16	06/14/24 17:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/14/24 09:16	06/14/24 17:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/14/24 09:16	06/14/24 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			06/14/24 09:16	06/14/24 17:54	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	101 - Total BTEX Cald	culation	70 - 130			06/14/24 09:16	06/14/24 17:54	1
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calo Result	Qualifier	RL	Unit	<u>D</u>	06/14/24 09:16 Prepared	Analyzed	1 Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald Result <0.00402	Qualifier U	RL 0.00402	Unit mg/Kg	<u>D</u>			1 Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cale Result <0.00402	Qualifier U	RL 0.00402		D		Analyzed	1 Dil Fac 1 Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cale Result <0.00402	Qualifier U ics (DRO) (Qualifier	RL 0.00402	mg/Kg		Prepared	Analyzed 06/14/24 17:54	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Cald Result <0.00402 esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.8	mg/Kg Unit		Prepared	Analyzed 06/14/24 17:54 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Cale Result <0.00402 esel Range Organ Result <49.8 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.8	mg/Kg Unit		Prepared	Analyzed 06/14/24 17:54 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Cale Result <0.00402 esel Range Organ Result <49.8 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U enics (DRO) Qualifier	RL 0.00402 GC) RL 49.8 (GC)	mg/Kg	D	Prepared Prepared	Analyzed 06/14/24 17:54 Analyzed 06/18/24 00:17	1 Dil Fac 1

Job ID: 880-44746-1

Matrix: Solid

<u>----</u>

		Clien	it Sample Res	sults				
Client: Ensolum						SDC-1	Job ID: 880-	
Project/Site: Buck Federal CTB						SDG: L	ea County, New	viviexico
Client Sample ID: FS07						Lab Sam	ple ID: 880-4	4746-4
Date Collected: 06/13/24 10:40							Matri	x: Solid
Date Received: 06/13/24 14:50								
Sample Depth: 4'								
- Method: EDA 200.0 Anione Jan	Chromotograd	hu Calubi						
Method: EPA 300.0 - Anions, Ion Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.98	mg/Kg			06/14/24 13:08	1
-								
Client Sample ID: FS08						Lab Sam	ple ID: 880-4	
Date Collected: 06/13/24 10:45							Matri	x: Solid
Date Received: 06/13/24 14:50								
Sample Depth: 4'								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)					
Analyte		Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/24 09:16	06/14/24 18:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/14/24 09:16	06/14/24 18:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/14/24 09:16	06/14/24 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/14/24 09:16	06/14/24 18:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/14/24 09:16	06/14/24 18:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/14/24 09:16	06/14/24 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			06/14/24 09:16	06/14/24 18:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/14/24 09:16	06/14/24 18:15	1
_ Method: TAL SOP Total BTEX - 1								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398	mg/Kg			06/14/24 18:15	
	-0.00000	0	0.00000	ing/itg			00/14/24 10:10	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	890		49.9	mg/Kg			06/18/24 01:06	1
_ Method: SW846 8015B NM - Die								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		quamor	49.9	mg/Kg		06/13/24 16:25	06/18/24 01:06	
(GRO)-C6-C10				.99				
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		06/13/24 16:25	06/18/24 01:06	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/24 16:25	06/18/24 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			06/13/24 16:25	06/18/24 01:06	1
	73		70 - 130			06/13/24 16:25	06/18/24 01:06	1
o-Terphenyl								
	Chrometer	hu Calula						
o- <i>lerphenyl</i> Method: EPA 300.0 - Anions, Ion Analyte		o <mark>hy - Solub</mark> Qualifier	le RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Midland

Project/Site: Buck Federal CTB

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-44746-1	SW02	102	102		
880-44746-2	SW03	103	102		6
880-44746-3	SW05	102	101		
880-44746-4	FS07	103	101		
880-44746-5	FS08	103	101		
LCS 880-83122/1-A	Lab Control Sample	101	100		9
LCSD 880-83122/2-A	Lab Control Sample Dup	102	100		U
MB 880-83122/5-A	Method Blank	101	99		9
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-44746-1	SW02	71	63 S1-
880-44746-2	SW03	73	65 S1-
880-44746-3	SW05	75	66 S1-
880-44746-4	FS07	64 S1-	57 S1-
880-44746-5	FS08	84	73
LCS 880-83154/2-A	Lab Control Sample	101	93
LCSD 880-83154/3-A	Lab Control Sample Dup	84	78
MB 880-83154/1-A	Method Blank	79	68 S1-

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Project/Site: Buck Federal CTB

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 83122

Prep Batch: 83122

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 83198

Client: Ensolum

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		06/13/24 13:48	06/14/24 10:58	1
<0.00200	U	0.00200	mg/Kg		06/13/24 13:48	06/14/24 10:58	1
<0.00200	U	0.00200	mg/Kg		06/13/24 13:48	06/14/24 10:58	1
<0.00400	U	0.00400	mg/Kg		06/13/24 13:48	06/14/24 10:58	1
<0.00200	U	0.00200	mg/Kg		06/13/24 13:48	06/14/24 10:58	1
<0.00400	U	0.00400	mg/Kg		06/13/24 13:48	06/14/24 10:58	1
МВ	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
101		70 - 130			06/13/24 13:48	06/14/24 10:58	1
99		70 - 130			06/13/24 13:48	06/14/24 10:58	1
	Result <0.00200	Result Qualifier <0.00200	Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

Lab Sample ID: LCS 880-83122/1-A Matrix: Solid

Analysis Batch: 83198

	Spike	LCS LC	cs				%Rec	
Analyte	Added	Result Q	ualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1057	1	mg/Kg		106	70 - 130	
Toluene	0.100	0.1029	1	mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1013	1	mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2147		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1059	1	mg/Kg		106	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-83122/2-A

Matrix: Solid

Analysis Batch: 83198							Prep	Batch:	83122
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1061		mg/Kg		106	70 - 130	3	35
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2226		mg/Kg		111	70 - 130	4	35
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

QC Sample Results

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

Matrix: Solid	1-A										ple ID: Me Prep Typ		
Analysis Batch: 83278											Prep B		
	N	иви	ИВ								TTOP D		0010-
Analyte			Qualifier	RL		Unit		D	Prepared		Analyzed		Dil Fac
Gasoline Range Organics		0.0 U		50.0		mg/ł		-	06/13/24 16:)6/17/24 18:		
(GRO)-C6-C10				0010			.9		00,10,2110.			•••	
Diesel Range Organics (Over	<50	0.0 U	J	50.0		mg/ł	Κg		06/13/24 16:	25 (06/17/24 18:	04	
C10-C28)													
Oil Range Organics (Over C28-C36)	<50	0.0 U	J	50.0		mg/ł	Κg		06/13/24 16:	25 (06/17/24 18:	04	
	л	NB N	ИB										
Surrogate	%Recove		Qualifier	Limits					Prepared		Analyzed		Dil Fa
1-Chlorooctane		79	quamer	70 - 130					06/13/24 16:		06/17/24 18:		Birra
o-Terphenyl		68 S	51-	70 - 130					06/13/24 16:		06/17/24 18:		
		00 0		10-100					00,10,2110.	20 0			
Lab Sample ID: LCS 880-83154/	/2-A							С	lient Samp	le ID:	Lab Con	trol S	ample
Matrix: Solid											Prep Typ		
Analysis Batch: 83278											Prep B		
-				Spike	LCS	LCS				%	Rec		
Analyte				Added	Result	Qualifier	Unit		D %Rec	Li	mits		
Gasoline Range Organics				1000	1046		mg/Kg		105	70	. 130		
(GRO)-C6-C10													
Diesel Range Organics (Over				1000	953.6		mg/Kg		95	70	- 130		
C10-C28)													
	LCS L	CS											
Surrogate		.CS Qualifi	ier	Limits									
			ier	Limits 70 - 130									
1-Chlorooctane	%Recovery		ier										
1-Chlorooctane	%Recovery 101		ier	70 - 130									
1-Chlorooctane o-Terphenyl	%Recovery 101 93		ier	70 - 130			CI	ent	Sample ID	: Lab	Control S	Sampl	le Duj
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315	%Recovery 101 93		ier	70 - 130			CI	ent	Sample ID	: Lab	Control S Prep Typ		
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid	%Recovery 101 93		ier	70 - 130			CI	ent	Sample ID	: Lab		be: To	otal/N
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid	%Recovery 101 93		ier	70 - 130	LCSD	LCSD	CI	ent	Sample ID		Ргер Тур	be: To	otal/N/ 8315
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278	%Recovery 101 93		ier	70 - 130 70 - 130		LCSD Qualifier	CI Unit	ent	Sample ID	%	Prep Typ Prep B	be: To	otal/N 8315 RP
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte	%Recovery 101 93		ier	70 - 130 70 - 130 Spike				ent	-	% Li	Prep Typ Prep B Rec	be: To atch:	otal/N 8315 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 101 93		ier	70 - 130 70 - 130 Spike Added	Result		Unit	ent	D %Rec	% Li	Prep Typ Prep B Rec mits	oe: To atch: RPD	otal/N 8315 RP Lim
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 101 93		ier	70 - 130 70 - 130 Spike Added	Result		Unit	ent	D %Rec	% 70	Prep Typ Prep B Rec mits	oe: To atch: RPD	otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 101 93		ier	70 - 130 70 - 130 Spike Added 1000	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	D %Rec 86	% 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20	8315 RPI Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 101 93	Qualifi	ier	70 - 130 70 - 130 Spike Added 1000	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	D %Rec 86	% 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20	83154 83154 RPI Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<u>%Recovery</u> 93 101 93 64/3-A LCSD L	Qualifi		70 - 130 70 - 130 Spike Added 1000	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	D %Rec 86	% 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20	83154 83154 RPI Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	<u>%Recovery</u> 93 101 93 64/3-A LCSD L	Qualifi		70 - 130 70 - 130 Spike Added 1000	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	D %Rec 86	% 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20	8315 RPI Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	%Recovery G 101 93 64/3-A LCSD L %Recovery G	Qualifi		70 - 130 70 - 130 Spike Added 1000 1000	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	D %Rec 86	% 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20	83154 83154 RPI Limi
I-Chlorooctane Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	%Recovery G 101 93 93 93 94/3-A 4 LCSD L %Recovery G %Recovery G 84 78	Qualifi CSD Qualifi	ier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	D %Rec 86	% 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20	8315 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery G 101 93 93 93 94/3-A 4 LCSD L %Recovery G %Recovery G 84 78	Qualifi CSD Qualifi	ier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	D %Rec 86	% 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20	8315 89 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion	%Recovery G 101 93 93 93 94/3-A 93 24/3-A 93 %Recovery 6 %Recovery 6 %Recovery 6 84 78 9 78	Qualifi CSD Qualifi	ier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u> <u>%Rec</u> 86 79	% 70 70	Prep Typ Prep B Rec mits 0 - 130	RPD 20 18	2011/NJ 8315 RP Lim 2 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-83204/1	%Recovery G 101 93 93 93 94/3-A 93 24/3-A 93 %Recovery 6 %Recovery 6 %Recovery 6 84 78 9 78	Qualifi CSD Qualifi	ier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u> <u>%Rec</u> 86 79	% 70 70	Prep Typ Prep B Rec mits 1 130 0 130	e: To atch: RPD 20 18	Blan
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-83204/1 Matrix: Solid	%Recovery G 101 93 93 93 94/3-A 93 24/3-A 93 %Recovery 6 %Recovery 6 %Recovery 6 84 78 9 78	Qualifi CSD Qualifi	ier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u> <u>%Rec</u> 86 79	% 70 70	Prep Typ Prep B Rec mits 0 - 130	e: To atch: RPD 20 18	Blan
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-83204/1 Matrix: Solid	%Recovery G 101 93 93 93 94/3-A 93 64/3-A 93 %Recovery 6 %Recovery 6 %Recovery 6 %Recovery 6 84 78 0 Chromator 1-A	Qualifi CSD Qualifi	ier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 857.1		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u> <u>%Rec</u> 86 79	% 70 70	Prep Typ Prep B Rec mits 1 130 0 130	e: To atch: RPD 20 18	Blanl
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-8315 Matrix: Solid Analysis Batch: 83278 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery G 101 93 93 93 94/3-A 93 64/3-A 4 %Recovery G %Recovery G 84 78 Chromator 1-A	CSD Qualifi grap	ier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 857.1		_ <mark>Unit</mark> mg/Kg mg/Kg	D	<u>D</u> <u>%Rec</u> 86 79	% 70 70	Prep Typ Prep B Rec mits 1 130 0 130	ethod	Blanl

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Eurofins Midland

QC Sample Results

Client: Ensolum Project/Site: Buck Federal CTB Job ID: 880-44746-1 SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-83204/2-A Matrix: Solid Analysis Batch: 83209					Client	: Sample	ID: Lab C Prep	ontrol S Type: S		
	Spike	LCS	LCS				%Rec			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			i
Chloride	250	253.7		mg/Kg		101	90 - 110			
Lab Sample ID: LCSD 880-83204/3-A				Clie	nt San	nple ID: I	Lab Contro			l
Matrix: Solid							Prep	Type: S	eldulo	ī
Analysis Batch: 83209	0.11									
	Spike		LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	254.3		mg/Kg		102	90 _ 110	0	20	

Eurofins Midland

Client Sample ID

SW02

SW03

SW05

FS07

FS08

Method Blank

Lab Control Sample

Lab Control Sample Dup

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Ensolum Project/Site: Buck Federal CTB

GC VOA

880-44746-1

880-44746-2

880-44746-3

880-44746-4

880-44746-5

MB 880-83122/5-A

LCS 880-83122/1-A

LCSD 880-83122/2-A

Analysis Batch: 83198

Prep Batch: 83122 Lab Sample ID

Page 172 of 188

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

5035

5035

Prep Batch 8 Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44746-1	SW02	Total/NA	Solid	8021B	83122
880-44746-2	SW03	Total/NA	Solid	8021B	83122
880-44746-3	SW05	Total/NA	Solid	8021B	83122
880-44746-4	FS07	Total/NA	Solid	8021B	83122
880-44746-5	FS08	Total/NA	Solid	8021B	83122
MB 880-83122/5-A	Method Blank	Total/NA	Solid	8021B	83122
LCS 880-83122/1-A	Lab Control Sample	Total/NA	Solid	8021B	83122
LCSD 880-83122/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83122

Analysis Batch: 83305

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-44746-1	SW02	Total/NA	Solid	Total BTEX	
880-44746-2	SW03	Total/NA	Solid	Total BTEX	
880-44746-3	SW05	Total/NA	Solid	Total BTEX	
880-44746-4	FS07	Total/NA	Solid	Total BTEX	
880-44746-5	FS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83154

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-44746-1	SW02	Total/NA	Solid	8015NM Prep	
880-44746-2	SW03	Total/NA	Solid	8015NM Prep	
880-44746-3	SW05	Total/NA	Solid	8015NM Prep	
880-44746-4	FS07	Total/NA	Solid	8015NM Prep	
880-44746-5	FS08	Total/NA	Solid	8015NM Prep	
MB 880-83154/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83154/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83278

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-44746-1	SW02	Total/NA	Solid	8015B NM	83154
880-44746-2	SW03	Total/NA	Solid	8015B NM	83154
880-44746-3	SW05	Total/NA	Solid	8015B NM	83154
880-44746-4	FS07	Total/NA	Solid	8015B NM	83154
880-44746-5	FS08	Total/NA	Solid	8015B NM	83154
MB 880-83154/1-A	Method Blank	Total/NA	Solid	8015B NM	83154
LCS 880-83154/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83154
LCSD 880-83154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83154

Eurofins Midland

Client: Ensolum Project/Site: Buck Federal CTB

Job ID: 880-44746-1 SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 83508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44746-1	SW02	Total/NA	Solid	8015 NM	
880-44746-2	SW03	Total/NA	Solid	8015 NM	
880-44746-3	SW05	Total/NA	Solid	8015 NM	
880-44746-4	FS07	Total/NA	Solid	8015 NM	
880-44746-5	FS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83204

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-44746-1	SW02	Soluble	Solid	DI Leach	
80-44746-2	SW03	Soluble	Solid	DI Leach	
80-44746-3	SW05	Soluble	Solid	DI Leach	
80-44746-4	FS07	Soluble	Solid	DI Leach	
80-44746-5	FS08	Soluble	Solid	DI Leach	
/IB 880-83204/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-83204/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-83204/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 83209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44746-1	SW02	Soluble	Solid	300.0	83204
880-44746-2	SW03	Soluble	Solid	300.0	83204
880-44746-3	SW05	Soluble	Solid	300.0	83204
880-44746-4	FS07	Soluble	Solid	300.0	83204
880-44746-5	FS08	Soluble	Solid	300.0	83204
MB 880-83204/1-A	Method Blank	Soluble	Solid	300.0	83204
LCS 880-83204/2-A	Lab Control Sample	Soluble	Solid	300.0	83204
LCSD 880-83204/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83204

Client: Ensolum Project/Site: Buck Federal CTB

Client Sample ID: SW02 Date Collected: 06/13/24 10:25

Date Received: 06/13/24 14:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			83122	EL	EET MID	06/14/24 09:16
Total/NA	Analysis	8021B		1	83198	MNR	EET MID	06/14/24 14:05
Total/NA	Analysis	Total BTEX		1	83305	SM	EET MID	06/14/24 14:05
Total/NA	Analysis	8015 NM		1	83508	SM	EET MID	06/17/24 23:27
Total/NA	Prep	8015NM Prep			83154	EL	EET MID	06/13/24 16:25
Total/NA	Analysis	8015B NM		1	83278	SM	EET MID	06/17/24 23:27
Soluble	Leach	DI Leach			83204	SA	EET MID	06/14/24 08:29
Soluble	Analysis	300.0		1	83209	СН	EET MID	06/14/24 13:23

Client Sample ID: SW03

Date Collected: 06/13/24 10:30

Date Received: 06/13/24 14:50

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			83122	EL	EET MID	06/14/24 09:16
Total/NA	Analysis	8021B		1	83198	MNR	EET MID	06/14/24 17:13
Total/NA	Analysis	Total BTEX		1	83305	SM	EET MID	06/14/24 17:13
Total/NA	Analysis	8015 NM		1	83508	SM	EET MID	06/17/24 23:43
Total/NA	Prep	8015NM Prep			83154	EL	EET MID	06/13/24 16:25
Total/NA	Analysis	8015B NM		1	83278	SM	EET MID	06/17/24 23:43
Soluble	Leach	DI Leach			83204	SA	EET MID	06/14/24 08:29
Soluble	Analysis	300.0		1	83209	СН	EET MID	06/14/24 12:48

Client Sample ID: SW05

Date Collected: 06/13/24 10:35

Date Received: 06/13/24 14:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			83122	EL	EET MID	06/14/24 09:16
Total/NA	Analysis	8021B		1	83198	MNR	EET MID	06/14/24 17:34
Total/NA	Analysis	Total BTEX		1	83305	SM	EET MID	06/14/24 17:34
Total/NA	Analysis	8015 NM		1	83508	SM	EET MID	06/17/24 23:59
Total/NA	Prep	8015NM Prep			83154	EL	EET MID	06/13/24 16:25
Total/NA	Analysis	8015B NM		1	83278	SM	EET MID	06/17/24 23:59
Soluble	Leach	DI Leach			83204	SA	EET MID	06/14/24 08:29
Soluble	Analysis	300.0		1	83209	СН	EET MID	06/14/24 12:53

Client Sample ID: FS07 Date Collected: 06/13/24 10:40 Date Received: 06/13/24 14:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			83122	EL	EET MID	06/14/24 09:16
Total/NA	Analysis	8021B		1	83198	MNR	EET MID	06/14/24 17:54
Total/NA	Analysis	Total BTEX		1	83305	SM	EET MID	06/14/24 17:54

Eurofins Midland

Page 174 of 188

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-44746-1 Matrix: Solid

Lab Sample ID: 880-44746-2

Lab Sample ID: 880-44746-3

Lab Sample ID: 880-44746-4

Matrix: Solid

Matrix: Solid

5 9

Matrix: Solid

Lab Chronicle

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-44746-4

Client Sample ID: FS07 Date Collected: 06/13/24 10:40

Project/Site: Buck Federal CTB

Client: Ensolum

Date Received: 06/13/24 14:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 NM		1	83508	SM	EET MID	06/18/24 00:17
Total/NA	Prep	8015NM Prep			83154	EL	EET MID	06/13/24 16:25
Total/NA	Analysis	8015B NM		1	83278	SM	EET MID	06/18/24 00:17
Soluble	Leach	DI Leach			83204	SA	EET MID	06/14/24 08:29
Soluble	Analysis	300.0		1	83209	СН	EET MID	06/14/24 13:08

Client Sample ID: FS08 Date Collected: 06/13/24 10:45

Date Received: 06/13/24 14:50

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	5035			83122	EL	EET MID	06/14/24 09:16	
Total/NA	Analysis	8021B		1	83198	MNR	EET MID	06/14/24 18:15	
Total/NA	Analysis	Total BTEX		1	83305	SM	EET MID	06/14/24 18:15	
Total/NA	Analysis	8015 NM		1	83508	SM	EET MID	06/18/24 01:06	1
Total/NA	Prep	8015NM Prep			83154	EL	EET MID	06/13/24 16:25	
Total/NA	Analysis	8015B NM		1	83278	SM	EET MID	06/18/24 01:06	
Soluble	Leach	DI Leach			83204	SA	EET MID	06/14/24 08:29	
Soluble	Analysis	300.0		1	83209	CH	EET MID	06/14/24 13:13	

Laboratory References:

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

Eurofins Midland

Page 175 of 188

Matrix: Solid Lab Sample ID: 880-44746-5 9

Matrix: Solid

10

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

Project/Site: Buck Federal CTB

Client: Ensolum

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAF	כ	T104704400-23-26	06-30-24
The following analytes	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
U	bes not offer certification.	Matrix	Analyte	
for which the agency do Analysis Method 8015 NM	bes not offer certification. Prep Method	Matrix	Analyte	

Eurofins Midland

Method Summary

Client: Ensolum Project/Site: Buck Federal CTB Job ID: 880-44746-1 SDG: Lea County, New Mexico

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	EPA	EET MID
035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Page 178 of 188

Job ID: 880-44746-1 SDG: Lea County, New Mexico

Client: Ensolum Project/Site: Buck Federal CTB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
880-44746-1	SW02	Solid	06/13/24 10:25	06/13/24 14:50	0-4'	Δ
880-44746-2	SW03	Solid	06/13/24 10:30	06/13/24 14:50	0-4'	
880-44746-3	SW05	Solid	06/13/24 10:35	06/13/24 14:50	0-4'	5
880-44746-4	FS07	Solid	06/13/24 10:40	06/13/24 14:50	4'	5
880-44746-5	FS08	Solid	06/13/24 10:45	06/13/24 14:50	4'	6
						7
						8
						9
						10
						10
						11
						12
						13
						14

Date/Time			THE LOCAL			A		MMP Janes
	Received by: (Signature)	Relinquished by: (Signature)	e/Time	ture)	Received by: (Signature)	Receive	(Signature)	ished by:
	standard terms and conditions incumstances beyond the control forced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subconfractore. 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	lient company to Eurofins Xe y for any losses or expenses i ample submitted to Eurofins)	urchase order from ourchase order from the second s	stitutes a valid p nd shall not assu project and a ch	it of samples con ost of samples ar e applied to each	ent and relinquishmen be liable only for the c charge of \$85.00 will b	: Signature of this docum rice. Eurofins Xenco will ofins Xenco. A minimum
I Sn U V Zn 7470 / 7471	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zi Ni Se Ag Ti U Hg:1631/245.1/7470/7471	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn N Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	Al Sb As Ba Be B RA Sb As Ba Be C	CRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA	8RCRA 13P TCLP / SI	vzed 8	200.8 / 6020: etal(s) to be anal	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
			7			1/24	120	
							19 02	
						/		ditte
				_			/	-
			-	_			_	1
			1XXX	4' C	5101	6/13/2024	s	FS08
			$1 \times \times \times$	4. C	1040	6/13/2024	s	FS07
				0-4' C	520]	6/13/2024	s	SW05
				0-4- C	1070	6/13/2024	s	SW03
				7 0-4" C	Sol Card	6/13/2024	s	SW02
Sample Comments	S		TPH 8 BTEX Chlori	Depth Comp	Time Sampled	Date Sampled	tion Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOH+		8021	50	emperature:	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn	Zn Ace		-		Reading:	Lemperature Reading:	Yes No NIA	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃	Na ₂ S ₂ C		Pa),	actor:	Correction Factor:	Yes No NA	Cooler Custody Seals:
NaHSO4: NABIS	NaHSC		arar	150	r ID:	Thermometer ID:	(Yes No	Samples Received Intact:
ΗP	H ₃ PO ₄ : HP		nete	Yes No	Wet Ice:	Yes No	Temp Blank:	SAMPLE RECEIPT
H ₂ NaOH: Na	H ₂ S0 ₄ : H ₂		ers	eived by 4:30pm	the lab, if recu	96	03D2024199	PO #
	HCL: HC			TAT starts the day received by	TAT starts the		Noah Duker	Sampler's Name:
ool MeOH: Me	Cool: Cool				Due Date:		Lea County, New Mexico	Project Location:
VO DI Water: H ₂ O	None: NO		Code	Rush	Routine	96	03D2024199	Project Number:
Preservative Codes	P	ANALYSIS REQUEST		Turn Around	Turn	СТВ	Buck Federal CTB	Project Name:
Other:	Deliverables: EDD	Deliver	m.com	hgreen@ensolum.com	Email:	5895	32-557-8	Phone:
	Reporting: Level III Level III PST/UST TRRP	Reporti		City, State ZIP:			Midland, TX 79701	City, State ZIP: Midl
	State of Project:	State o		Address:		suite 400	601 N Marienfeld St Suite 400	Address: 601
RRC Superfu	Program: UST/PST PRP Brownfields RRC Superfund	Progra		Company Name:			Ensolum, LLC	Company Name: Ensi
nts	Work Order Comments			Bill to: (if different)			Hadlie Green	Project Manager: Had
geof	www.xenco.com Page	ad, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs,				
of Custody	Work 880-44746 Chain of Custody	as, TX (214) 902-0300 tonio, TX (210) 509-3334 ack, TX (806) 794-1296	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	Housto Midland, EL Pas	sting	Environment Testing Xenco		
		istody	Chain of Custody				5	
THERE REAL ROUTE TO BE THE REAL PARTY INTERPARTY								



5

Job Number: 880-44746-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 44746 List Number: 1 Creator: Rodriguez, Leticia

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	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the containers received and the COC.	True	
amples are received within Holding Time (excluding tests with immediate Ts)	True	
Sample containers have legible labels.	True	
containers are not broken or leaking.	True	
ample collection date/times are provided.	True	
ppropriate 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 //S/MSDs	True	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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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

QUESTIONS

Action 359853

QUESTIONS		
Operator: CONOCOPHILLIPS COMPANY	OGRID: 217817	
600 W. Illinois Avenue Midland, TX 79701	Action Number: 359853	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315731307
Incident Name	NAPP2315731307 BUCK FEDERAL CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2212245796] BUCK FEDERAL 17 BATTERY

Location of Release Source

Please answer all the questions in this group.	
Site Name	BUCK FEDERAL CTB
Date Release Discovered	06/01/2023
Surface Owner	Federal

Incident Details

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

Page 182 of 188

QUESTIONS, Page 2

Action 359853

QUESTIONS (continued) Operator: OGRID: CONOCOPHILLIPS COMPANY 217817 600 W. Illinois Avenue Action Number: Midland, TX 79701 359853 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	False
The impacted area has been secured to protect human health and the environment	False
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	False
If all the actions described above have not been undertaken, explain why	N/A
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Nome: Britteny Echarge

	Name: Brittany Esparza
I hereby agree and sign off to the above statement	Title: Environmental Technician
Thereby agree and eight on to the above statement	Email: brittany.Esparza@ConocoPhillips.com
	Date: 07/01/2024

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

QUESTIONS, Page 3

Page 183 of 188

Action 359853

QUESTIONS (continued) Operator: OGRID: CONOCOPHILLIPS COMPANY 217817 600 W. Illinois Avenue Action Number: Midland, TX 79701 359853 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	id the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Νο

Remediation Plan

Please answer all the questions th	at apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation p	plan approval with this submission	Yes
Attach a comprehensive report der	nonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in m	illigrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	5670
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	24100
GRO+DRO	(EPA SW-846 Method 8015M)	24040
BTEX	(EPA SW-846 Method 8021B or 8260B)	49.4
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.6
	MAC unless the site characterization report includes complete elines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date wil	I the remediation commence	06/07/2024
On what date will (or did) th	e final sampling or liner inspection occur	06/13/2024
On what date will (or was) t	he remediation complete(d)	06/13/2024
What is the estimated surfa	ce area (in square feet) that will be reclaimed	377
What is the estimated volun	ne (in cubic yards) that will be reclaimed	0
What is the estimated surfa	ce area (in square feet) that will be remediated	1362
What is the estimated volum	ne (in cubic yards) that will be remediated	200
These estimated dates and measur	rements are recognized to be the best guess or calculation at th	time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed	d remediation measures may have to be minimally adjusted in a	accordance with the physical realities encountered during remediation. If the responsible party has any need to

esponsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 359853

perator:	OGRID:	
	OGRID:	
CONOCOPHILLIPS COMPANY	217817	
600 W. Illinois Avenue Midland, TX 79701	Action Number: 359853	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
IESTIONS		
emediation Plan (continued)		
ease answer all the questions that apply or are indicated. This information must be provided to t	the appropriate district office no later than 90 days after the release discovery date.	
is remediation will (or is expected to) utilize the following processes to remedia	ate / reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	Not answered.	
r Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ich includes the anticipated timelines for beginning and completing the remediation.	l efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
report and/or file certain release notifications and perform corrective actions for rel e OCD does not relieve the operator of liability should their operations have failed to	y knowledge and understand that pursuant to OCD rules and regulations all operators are required leases which may endanger public health or the environment. The acceptance of a C-141 report by o adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/01/2024	

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

QUESTIONS, Page 5

Action 359853

QUESTIONS (continued)	
Operator: CONOCOPHILLIPS COMPANY	OGRID: 217817
600 W. Illinois Avenue Midland, TX 79701	Action Number: 359853
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deterral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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District III

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

QUESTIONS, Page 6

Action 359853

Page 186 of 188

QUESTIONS (continued)		
Operator:	OGRID:	
CONOCOPHILLIPS COMPANY	217817	
600 W. Illinois Avenue	Action Number:	
Midland, TX 79701	359853	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352926
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/13/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1934

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1362
What was the total volume (cubic yards) remediated	200
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	377
What was the total volume (in cubic yards) reclaimed	133
Summarize any additional remediation activities not included by answers (above)	na
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially 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	ng notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/01/2024

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QUESTIONS, Page 7

Page 187 of 188

Action 359853

QUESTIONS (continued)	
Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 359853
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Reclamation Report	

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission No

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CONDITIONS

Action 359853

Operator: OGRID: CONOCOPHILLIPS COMPANY 217817 600 W. Illinois Avenue Action Number: Midland, TX 79701 359853 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/15/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/15/2024