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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)* **nAPP2320969364**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **32.575083** Longitude **-104.151796** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Burton Flats 6 Inch**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **07/28/2023**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
F	**14**	**20N**	**28W**	**Eddy**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name*: **BLM**)

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): **Estimated 5 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **2.64 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On July 28, 2023, Enterprise had a release of natural gas and natural gas liquids from the Burton Flats 6 Inch pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. An area of approximately 150 feet in diameter was affect by the released fluids. The release was a result of a pipeline strike. Remediation was completed on September 11, 2023. The final excavation dimensions measured approximately 89 feet long by 30 feet wide by 11.5 feet deep. A total of 80 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final" C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 10-25-2023

email: tjlong@eprod.com Telephone: (505) 599-2286

OCD Only

Received by: Scott Rodgers Date: 10/25/2023

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

Closure Approved by: Ashley Maxwell Date: 11/28/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

ENSOLUM

CLOSURE REPORT

Property:

Burton Flats 6 Inch

Unit F, S14, T20S, R28W
32.575083° N, 104.151796° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2320969364

October 19, 2023
Ensolum Project No. 03B1226307

Prepared for:

Enterprise Field Services, LLC
PO Box 4324
Houston, TX 77210

Attn: Thomas Long

Prepared by:

Kelly Lowery, GIT
Project Manager

Heather Holthaus
Senior Project Manager

ENSOLUM

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ENSOLUM

CLOSURE REPORT

Burton Flats 6 Inch

Unit F, S14, T20S, R28W
32.575083° N, 104.151796° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2320969364

Ensolum Project No. 03B1226307

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC (Enterprise)
Site Name:	Burton Flats 6 Inch
Location:	Unit F, Section 14, Township 20 South, Range 28 West 32.575083° N, -104.151796° W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 28, 2023, while a third-party company was installing a new pipeline right-of-way (ROW), an unmarked poly line was struck. It was later determined that the poly line belonged to Enterprise and was the Burton Flats 6 Inch. Approximately 2.64 one-thousand cubic feet (MCF) of natural gas was released to the atmosphere, along with 5 barrels (bbls) of condensate released onto the ground surface, with 0 bbls recovered. Enterprise reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on July 28, 2023. The release was assigned Incident Number nAPP2320969364.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site. The gas portion of this release constitutes venting that occurred during an emergency or a malfunction, as authorized by the New Mexico OCD regulations at

NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**. One exploratory water well was identified east of the Site on the OSE Water Rights Reporting System (WRRS) database.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is located within 300 feet of a wetland. A freshwater emergent wetland is located adjacent northwest to the Site.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within an unstable area, also referred to as high karst.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On July 28, 2023, while a third-party company was installing a new pipeline ROW, an unmarked poly line was struck. It was later determined that the poly line belonged to Enterprise and was the Burton Flats 6 Inch. Approximately 2.64 MCF of natural gas was released to the atmosphere, along with 5 bbls of condensate released onto the ground surface, with 0 bbls recovered. The overspray during the release impacted an area approximately 80 feet long by 62 feet wide at the maximum extents. Following submittal of an emergency New Mexico One-Call (NM-811), corrective action activities were commenced by New Mexico Rental Pipeline, LLC (NMR) utilizing a backhoe to excavate soils from the release area.

On August 1, 2023, Ensolum arrived on-Site to collect four soil samples from the area impacted by the overspray during the release (SS-01 through SS-04). The overspray samples were collected at a depth of 0.5 feet below ground surface (bgs).

On August 16, 2023, Ensolum arrived on-Site to collect three additional soil samples from the area impacted by the overspray (SS-05, SS-06 and SS-07), three composite soil samples from the excavation floor (FS-1, FS-2 and FS-3), and five composite soil samples from the excavation sidewalls (SW-1 through SW-5). The overspray soil samples were collected at a depth of 0.5 feet, bgs, the excavation floor samples were collected at a depth of 10 feet bgs, and the excavation sidewall samples were collected at a depth of 0-10 feet bgs. Additionally, four confirmation delineation soil samples were collected outside of the excavation area (North, East, South and West) at a depth of 0.5 feet bgs, and two composite soil stockpile samples were collected from the excavated soil stockpiles staged on-Site (STP-1 and STP-2). Based on laboratory analytical data, additional excavation activities were necessary.

On August 25, 2023, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect four composite soil samples from the excavation floor (FS-1, FS-2, FS-4 and FS-5), and six composite soil samples from the excavation sidewalls (SW-2, SW-4, and SW-6 through SW-9). The excavation floor samples were collected at a depth of 11.5 feet bgs and the excavation sidewall samples were collected at a depth of 0-10 feet bgs. Additionally, one confirmation delineation soil sample was collected outside of the excavation area (South) at a depth of 0-0.5 feet bgs, and one composite soil stockpile sample was collected from the excavated soil stockpile staged on-Site (STP-3). Based on laboratory analytical data, additional excavation activities were necessary.

On September 11, 2023, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collected one composite soil sample from the excavation floor (FS-4), and two composite soil samples from the excavation sidewalls (SW-7 and SW-9). The excavation floor sample was collected at a depth of 11.5 feet bgs and the excavation sidewall samples were collected at a depth of 0-10 feet bgs. In addition, one confirmation delineation soil sample was collected outside of the excavation area (North-2) at a depth of 0.5 feet bgs. Based on laboratory analytical data, no additional excavation or remediation activities were necessary.

The composite and confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) and total BTEX, total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil/lube oil range organics (MRO), and chloride in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation area measured approximately 89 feet long and 30 feet wide at the maximum extents, with a depth of 10 to 11.5 feet bgs.

The lithology encountered during the completion of closure activities consisted primarily of caliche.

A total of approximately 80 cubic yards of affected soils were excavated from the Site and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation extent will be backfilled with clean imported fill, contoured to the original surrounding grade, and a BLM approved seed mixture will be sown into the surface area of the backfill for re-vegetation.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation extent and the overspray area with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from August 1, 2023 through September 11, 2023 included the collection of a total of 21 composite soil samples from the excavation floor and sidewalls (FS-1 through FS-5, and SW-1 through SW-9), seven confirmation overspray soil samples from seven locations impacted by the release overspray (SS-01 through SS-07), six confirmation delineation soil samples from four locations outside of the excavation area (North, North-2, East, South and West), and three composite soil stockpile samples from the excavation soil stockpiles staged on-Site (STP-1, STP-2 and STP-3) for laboratory analysis.

The composite and confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite and confirmation soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO using EPA SW-846 Method 8015M/D, and chloride using EPA Method 300.0.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the total benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations or laboratory sample detection limits (SDLs) associated with the final overspray confirmation soil samples (SS-01 through SS-04), the final composite excavation soil samples (FS-1 through FS-5, SW-1, SW-2, SW-4, and SW-6 through SW-9), and the final confirmation delineation soil samples (North, North-2, East, South, and West) for the soils left in place at the Site, and the composite soil stockpile samples (STP-1, STP-2 and STP-3) to the NMOCD Closure Criteria.

- Laboratory analytical results indicate total benzene concentrations for the final composite soil samples collected from the excavation area, the final confirmation overspray soil samples, and the final confirmation delineation samples outside of the impacted area do not exceed the laboratory SDLs or the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).

- Laboratory analytical results indicate total benzene concentrations for the composite soil samples collected from the stockpiles staged on-Site do not exceed the laboratory SDLs or the NMOCD Closure Criteria of 10 mg/kg.

- Laboratory analytical results indicate that total BTEX concentrations for the final composite soil samples collected from the excavation area, the final confirmation overspray soil samples, and the final confirmation delineation samples outside of the impacted area do not exceed the laboratory SDLs or the NMOCD Closure Criteria of 50 mg/kg.

- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples collected from the stockpiles staged on-Site do not exceed the laboratory SDLs or the NMOCD Closure Criteria of 50 mg/kg.

- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples collected from the excavation area, the final confirmation overspray soil samples, and the final confirmation delineation samples outside of the impacted area do not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.

- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite soil samples collected from the stockpiles staged on-Site do not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.

- Laboratory analytical results indicate chloride concentrations for the final composite soil samples collected from the excavation area, the final confirmation overspray soil samples, and the final confirmation delineation samples outside of the impacted area do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 600 mg/kg.

- Laboratory analytical results indicate chloride concentrations for the composite soil samples collected from the stockpiles staged on-Site do not exceed the NMOCD Closure Criteria of 600 mg/kg.

Laboratory analytical results are summarized in **Table 1** in **Appendix D.**

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal. The excavation area will be backfilled with clean fill material, and then contoured to the original surrounding grade. Once the areas are brought back to original grade, a BLM approved seed mixture will be sown into the surface of the backfill for re-vegetation.

8.0 FINDINGS AND RECOMMENDATION

- On July 28, 2023, while a third-party company was installing a new pipeline ROW, an unmarked poly line was struck. It was later determined that the poly line belonged to Enterprise and was the Burton Flats 6 Inch. Approximately 2.64 MCF of natural gas was released to the atmosphere, along with 5 bbls of condensate released onto the ground surface, with 0 bbls recovered. The overspray during the release impacted an area approximately 80 feet long by 62 feet wide at the maximum extents.

- Following submittal of an emergency New Mexico One-Call (NM-811), corrective action activities were commenced by NMR utilizing a backhoe to excavate soils from the release area.

- Between August 1 and September 11, 2023, Ensolum arrived on-Site to collect seven confirmation soil samples from the overspray area (SS-01 through SS-07), eight composite soil samples from the excavation floor (FS-1 through FS-5) and 13 composite soil samples from the excavation sidewalls (SW-1 through SW-9). The confirmation overspray soil samples were collected at a depth of 0.5 feet bgs, the composite floor samples were collected at a depth of 10 to 11.5 feet bgs and the composite sidewall samples were collected at a depth of 0-10 feet bgs. Additionally, six confirmation delineation samples were collected outside of the excavation area (North, North-2, East, South and West) at a depth of 0.5 feet bgs. In addition, three composite soil stockpile samples were collected from the excavated soil stockpiles staged on-Site (STP-1, STP-2 and STP-3).

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.

- The final excavation area measured approximately 89 feet long and 30 feet wide at the maximum extents, with a depth of 10 to 11.5 feet bgs.

- A total of seven confirmation soil samples from the overspray area (SS-01 through SS-07), 21 composite soil samples from the excavation floor and sidewalls (FS-1 through FS-5, and SW-1 through SW-9), six confirmation delineation soil samples from locations outside of the excavation area (North, North-2, East, South and West), and three composite soil stockpile samples from the excavation soil stockpiles staged on-Site (STP-1, STP-2 and STP-3) were collected for laboratory analysis.

- Based on the laboratory analytical results, the final composite and confirmation soil samples for the soils left in place at the Site collected from the excavation area and the delineation samples outside of the impacted area did not exhibit total benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.

- Based on the laboratory analytical results, the composite soil samples collected from the soil stockpiles staged on-Site did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.

- Subsequent to the results of the composite and confirmation soil sampling, the soil stockpiles staged on-Site were removed and taken off-Site for proper disposal. A total of approximately 80 cubic yards of soils were excavated and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation area will be backfilled with clean fill material, contoured to the original surrounding grade, and a BLM approved seed mixture will be sown into the surface area of the backfill for re-vegetation.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

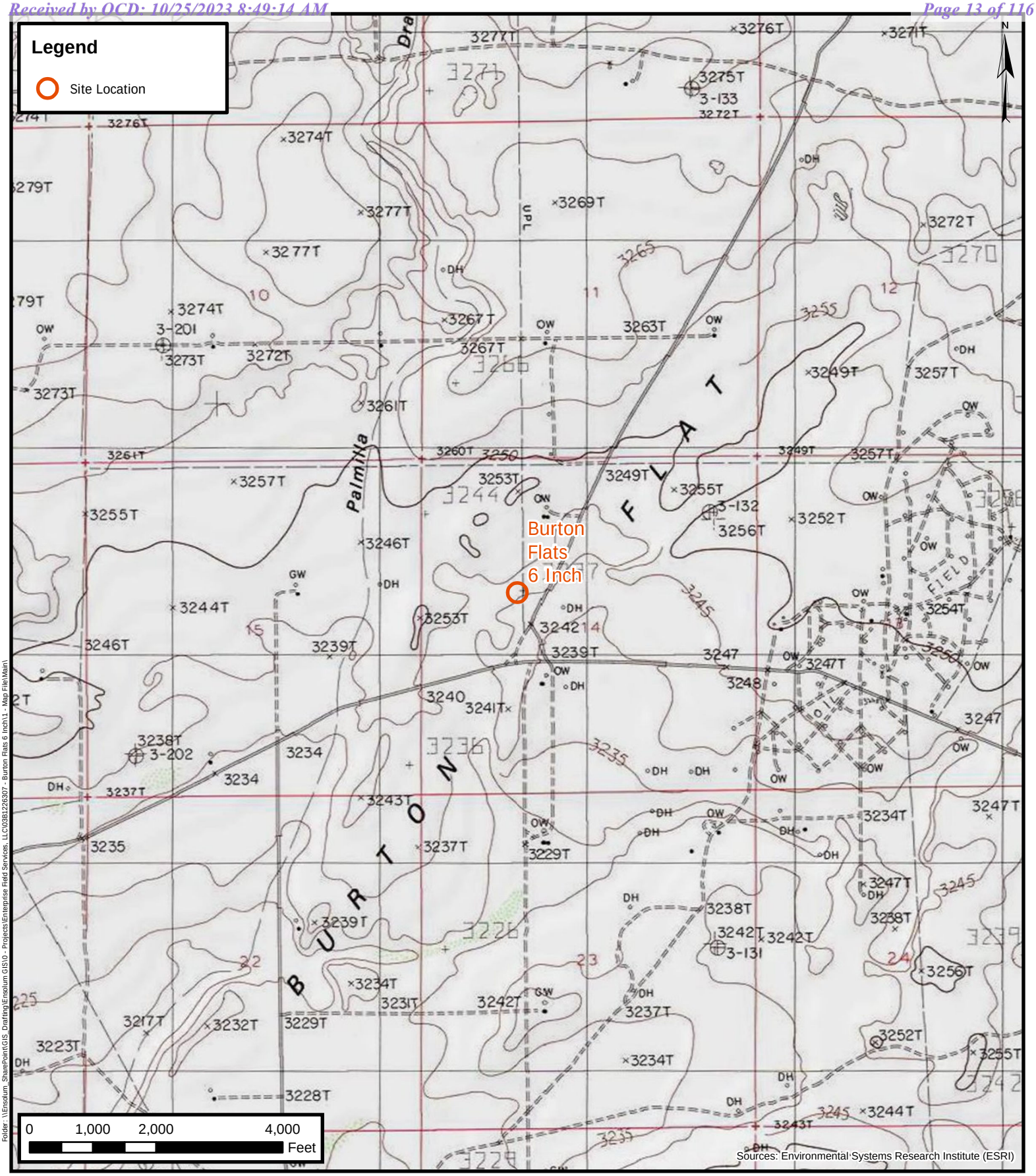
This report has been prepared for the exclusive use of Enterprise Field Services, LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Field Services, LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and

Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

ENSOLUM

APPENDIX A

Figures



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Burton Flats 6 Inch
Project: 03B1226307
32.575083, -104.151796
Eddy County, New Mexico

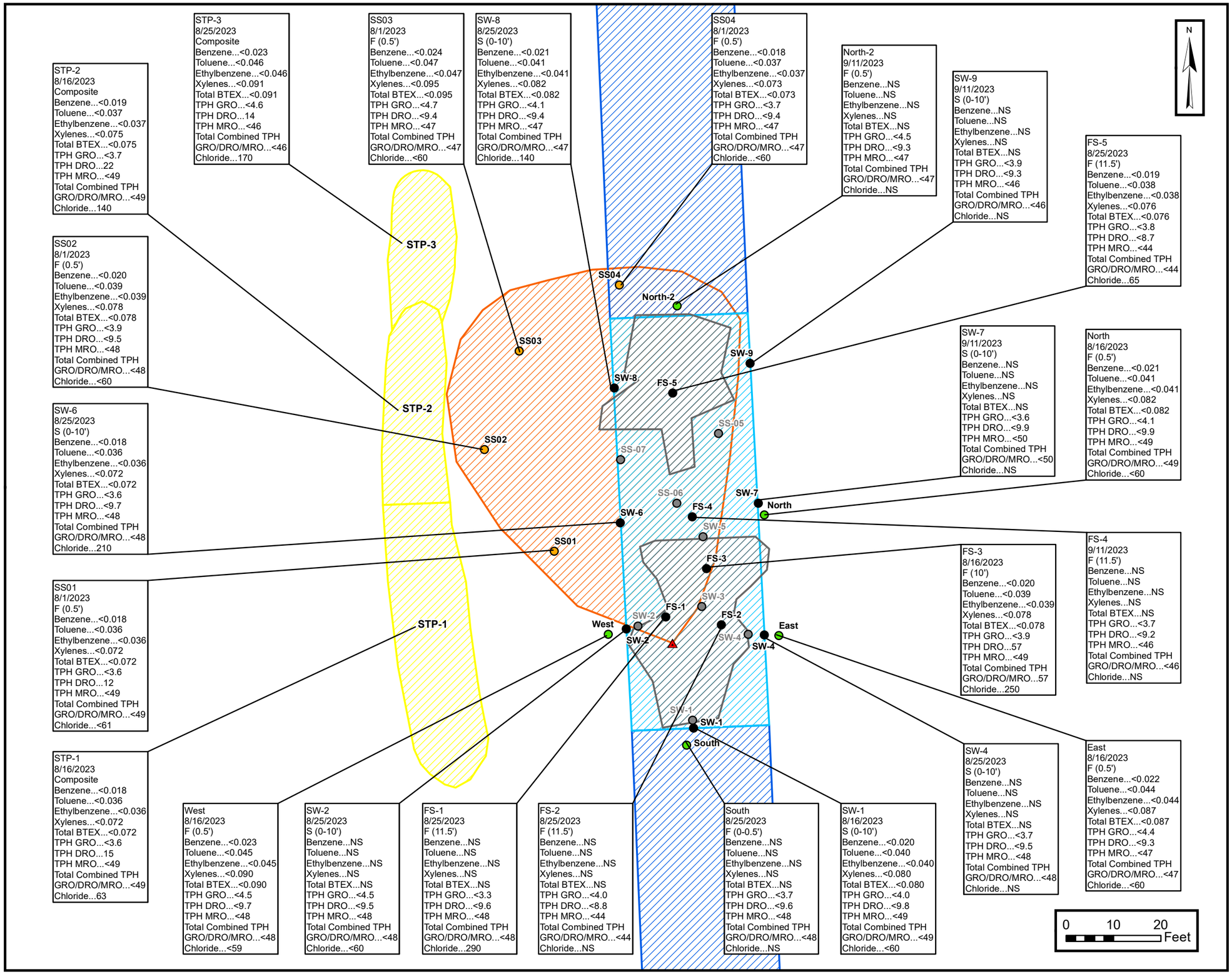
FIGURE 1

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Burton Flats 6 Inch
Project: 03B1226307
32.575083, -104.151796
Eddy County, New Mexico

FIGURE 2



LEGEND:

- Surface Soil Sample Location
- Delineation Soil Sample Location
- Excavation Soil Sample Location
- Soil Sample Removed by Excavation
- Release Point
- Former Excavation Extent
- Stockpile Location
- Over Excavation for Pipeline Replacement
- Extent of Over Excavation
- Overspray Release Extent

NOTES:
F - Floor Sample
S - Sidewall Sample
NS - Not Sampled

All concentrations are in mg/Kg.

All depths are listed in feet BGS.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

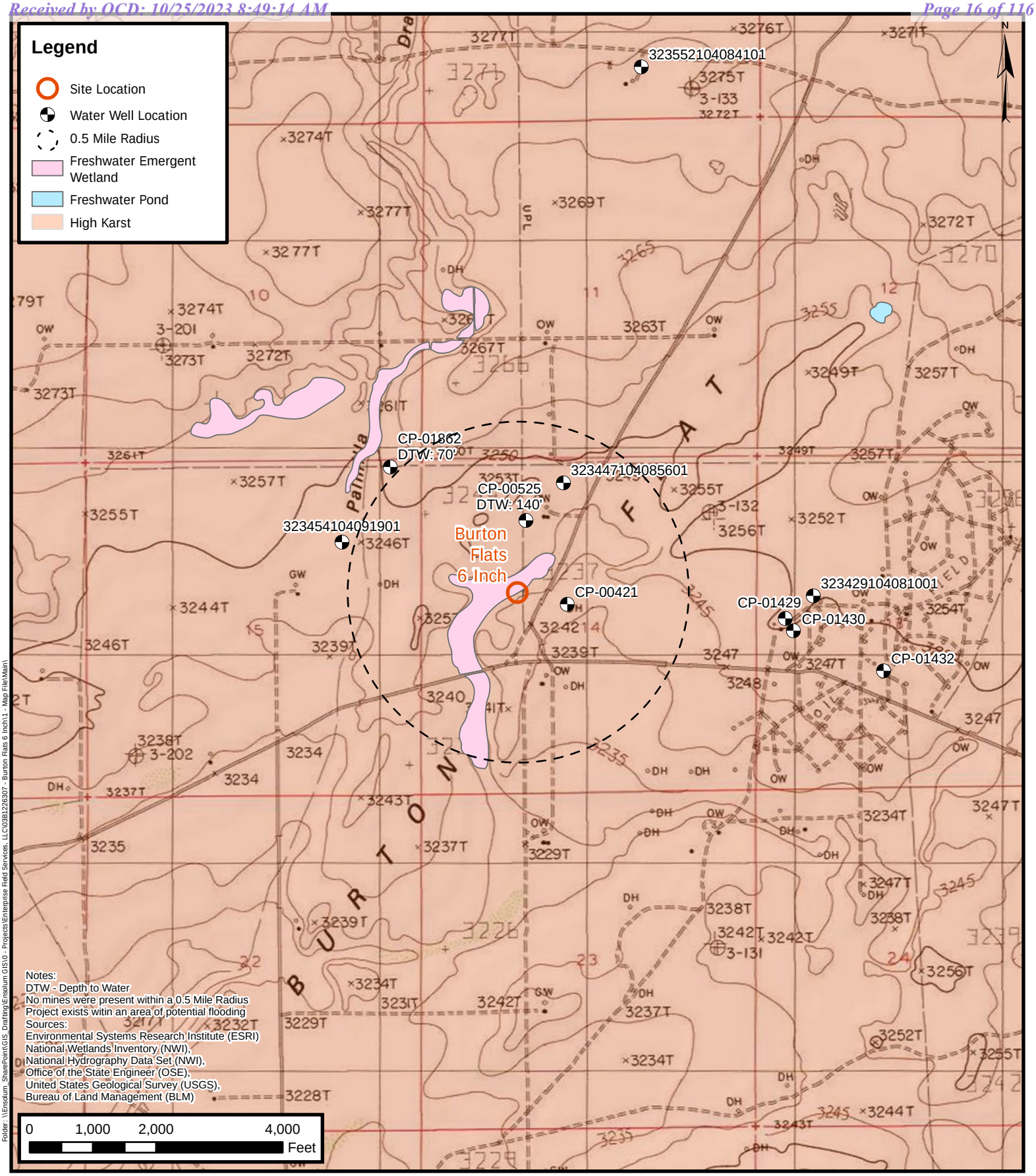
SITE MAP

ENTERPRISE FIELD SERVICES, LLC
BURTON FLATS 6 INCH

Eddy County, New Mexico
32.575083° N, 104.151796° W

FIGURE
3

PROJECT NUMBER: 03B1226307



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Closure Criteria Map

Enterprise Field Services, LLC
Burton Flats 6 Inch
Project: 03B1226307
32.575083, -104.151796
Eddy County, New Mexico

FIGURE 4

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APPENDIX B

Supporting Documentation

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NAPP2320969364
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)* **nAPP2320969364**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **32.575083** Longitude **-104.151796** *NAD 83 in decimal degrees to 5 decimal places)*

Site Name: **Burton Flats 6 Inch**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **07/28/2023**	Serial # *(if applicable)* **N/A**

Unit Letter	Section	Township	Range	County
F	**14**	**20S**	**28W**	**Eddy**

Surface Owner: State ☒ Federal ☐ Tribal ☐ Private (*Name:* ***BLM***)

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): **Estimated 5 BBLS**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **2.64 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe) Fire	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: On July 28, 2023, Enterprise had a release of natural gas and natural gas liquids from the Burton Flats 6 Inch pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. An area of approximately 150 feet in diameter was affect by the released fluids. The release was a result of a pipeline strike. Remediation in the progress A third party corrective action report will be submitted with the "Final C-141."

Incident ID	NAPP2320969364

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

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

☒ 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 not 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: Thomas J. Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 08-08-2023

email: tjlong@eprod.com Telephone: 505-599-2286

OCD Only

Received by: Shelly Wells Date: 8/8/2023

GasCal - [Differential / Volume]

File

Differential / Volume

Differential for known Volume:

Meter Tube Size:	12
Orifice Plate Size:	3.5
Pressure:	865
Volume (mcfd):	12300
Temperature:	72
Gravity:	0.582
Mole % CO2:	0
Mole % N2:	0
Pressure Base:	14.73
Temperature Base:	60

Differential 1 Run:	25.5
Differential 2 Runs:	6.4

Static Pipeline Volume:

Pipe Diameter:	4
Length:	3400
(F)eet or (M)iles:	F
Pressure:	120
Temperature:	80
Pressure Base:	14.73
Gravity:	0.644
Barometer:	14.73

Vol. (cu. ft.):	2,639.5
Lbs of Gas:	130.0
Tons of Gas:	.065

Pig Travel Time:

Pipe Diameter:	30
Length:	17
(F)eet or (M)iles:	M
Volume (mcfd):	200000
Upstream Pressure:	750
Downstream Pressure:	700
Temperature:	60
Pressure Base:	14.73
Gravity:	0.6
Barometer:	14.73

Hrs:	Min:	Sec:
2	48	49

Miles per Hour: 6.04

Input Temperature

Main Menu | Gas Cal. | Plate Change | Weymouth | Analysis | Retro/Setpoint | Blowdown Cal.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 249737

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 249737
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/8/2023

Kelly Lowery

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, July 28, 2023 7:53 PM
To: 'Robert Hamlet; Bratcher, Michael, EMNRD; sjtaylor@blm.gov
Cc: Stone, Brian; Kelly Lowery
Subject: FW: Burton Flats 6 Inch - UL F Section 14 T20S R28W; 32.575083, -104.1514796

[**EXTERNAL EMAIL**]

All,

Name Correction: The pipeline name is Burton Flats 6 Inch gathering pipeline.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Long, Thomas
Sent: Friday, July 28, 2023 6:34 PM
To: 'Robert Hamlet (Robert.Hamlet@state.nm.us)' <Robert.Hamlet@state.nm.us>; 'Mike Bratcher (mike.bratcher@state.nm.us)' <mike.bratcher@state.nm.us>; 'Shelly Taylor (sjtaylor@blm.gov)' <sjtaylor@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; 'Kelly Lowery' <klowery@ensolum.com>
Subject: North Carlsbad to South Carlsbad Pipeline- UL F Section 14 T20S R28W; 32.575083, -104.1514796

Mike/Robert/Shelly,

This email is a notification that Enterprise had a release of natural gas and natural gas liquids on the North Carlsbad to South Carlsbad Pipeline today at approximately 8:45 a.m. The release was a result of a pipeline strike during excavation activities. The one call did not identify the pipeline. No fire occurred. No one was injured. The release is located at UL F Section 14 T20S R28W; 32.575083, -104.1514796. Released liquids sprayed the right-of-way (ROW) and outside ROW for approximately 150 feet. The pipeline has been isolated, depressurized, locked and tagged out. I will submit a NOR and subsequent C-141. I will keep you informed as to when the repairs and remediation are scheduled. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.

Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Kelly Lowery

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, August 15, 2023 11:27 AM
To: Kelly Lowery
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Burton Flats 6 Inch (nAPP2320969364)

[**EXTERNAL EMAIL**]

Hi Kelly,

The OCD has received your notification. 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.

Thank you,

Shelly

From: Kelly Lowery <klowery@ensolum.com>
Sent: Tuesday, August 15, 2023 9:42 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Burton Flats 6 Inch (nAPP2320969364)

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

Good morning,

This email is a notification and a variance request. Ensolum, LLC, on behalf of Enterprise Field Services, LLC, is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Ensolum would like to collect soil samples for laboratory analysis Wednesday, August 16, 2023 at the Burton Flats 6 Inch (nAPP2320969364). Please acknowledge acceptance of this variance request. If you have any questions, please call or email. The samples may be used for closure, providing that they meet applicable closure limits.

Thank you

Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC

Kelly Lowery

From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Thursday, August 24, 2023 3:08 PM
To: Kelly Lowery
Cc: Hamlet, Robert, EMNRD; Wells, Shelly, EMNRD
Subject: RE: [EXTERNAL] Burton Flats 6 Inch (nAPP2320969364)

[**EXTERNAL EMAIL**]

Kelly,

Your request for a variance from 19.15.29.12D (1a) NMAC (two business days notification) is approved. Please include a copy of this and all correspondence in your report.

Thank you,

Mike Bratcher ● Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, August 24, 2023 10:27 AM
To: Kelly Lowery <klowery@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Burton Flats 6 Inch (nAPP2320969364)

Good morning Kelly,

The OCD has received your notification. Notification requirements are **two full 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.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

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

From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, August 24, 2023 10:20 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Burton Flats 6 Inch (nAPP2320969364)

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

Good morning,

This email is a notification and a variance request. Ensolum, LLC, on behalf of Enterprise Field Services, LLC, is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Ensolum would like to collect soil samples for laboratory analysis Friday, August 25, 2023 at the Burton Flats 6 Inch (nAPP2320969364). Please acknowledge acceptance of this variance request. If you have any questions, please call or email. The samples may be used for closure, providing that they meet applicable closure limits.

Thank you

Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC

Kelly Lowery

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, September 7, 2023 8:22 AM
To: Kelly Lowery
Cc: Long, Thomas; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Burton Flats 6 Inch (nAPP2320969364)

[**EXTERNAL EMAIL**]

Hi Kelly,

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

Shelly

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

From: Kelly Lowery <klowery@ensolum.com>
Sent: Wednesday, September 6, 2023 3:39 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Burton Flats 6 Inch (nAPP2320969364)

Good afternoon,

On behalf of Enterprise Field Services, LLC, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Burton Flats 6 Inch (Incident ID #nAPP2320969364) on Monday, September 11th. The samples may be used for closure, providing that they meet applicable closure limits.

Thank you

Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC

ENSOLUM

New Mexico Site Characterization

REFERENCE	SITE INFORMATION		COMMENTS
C-141	Site Name:	Burton Flats 6 Inch	
C-141	Cordinates:	32.575083, -104.151796	
C-141	Incident Number:	nAPP2320969364	
C-141	Land Owner:	BLM	
NMOCD O&G Map	Site Elevation (ft):	3,238	

CLOSEST SIGNIFICANT WATER SOURCE

NMOCD O&G Map	Type:	Wetland	
	Distance (ft):	30	
	Direction:	northwest	

SITE RECEPTORS

C-141	NO	Did this release impact groundwater or surface water?
NMOCD O&G Map	NO	≤ 200 ft of any lakebed, sinkhole, or playa lake?
NMOCD O&G Map	NO	≤ 300 ft of a continuously flowing watercourse or any other significant watercourse?
FEMA map	NO	≤ 300 ft of an occupied permanent residence, school, hospital, institution, or church?
Wetlands map	YES	≤ 300 ft of a wetland?
USGS map	NO	≤ 500 ft of a spring or a private water well used by < 5 houses for domestic or stock watering?
USGS map	NO	≤ 1000 ft of any other fresh water well or spring?
FEMA map	NO	in a 100-year floodplain?
NMOCD O&G Map	YES	overlying unstable geology (HIGH KARST)?
NMOCD O&G Map	HIGH	karst potential
NMOCD O&G Map	YES	water well within half a mile from Site drilled and with data ≤ 20 years?

DTW INFORMATION

Cross reference USGS Map, NMOCD Map, and NMOSE Database

Closest USGS Well		Closest NM OSE Well	
~~FALSE~~		CLOSER	
Name:	323447104085601	Name:	CP00525
Distance from Site (ft):	1,888	Distance from Site (ft):	1,186
Direction from Site:	north	Direction from Site:	north
Elevation:	3,248	Elevation:	3,252
Date Drilled:	1984	Date Drilled:	1973
DTW (ft):	41	DTW (ft):	140
Total Depth (ft):	171	Total Depth (ft):	171
Coordinates:	32.5798, -104.1494	Coordinates:	32.578214, -104.151325
10 feet higher in elevation than the Site		14 feet higher in elevation than the Site	

ESTIMATED DTW @ SITE:
>100'

USGS well drilled in 1984, last GW measurement date is 4/27/1984.

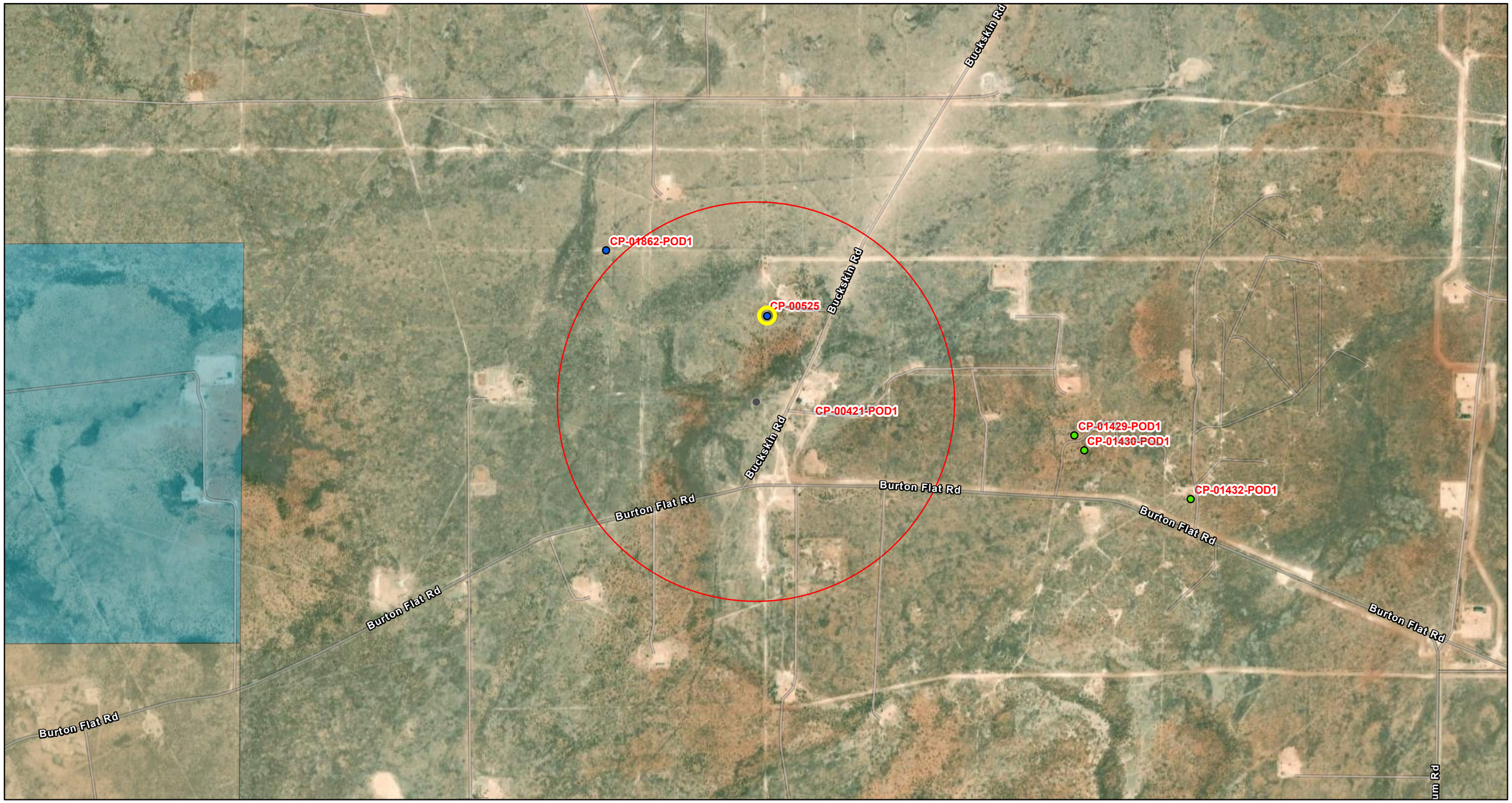
CP00525 well drilled on 10/14/1973.

NMOCD TABLE 1 CLOSURE CRITERIA

TPH: 100 mg/kg Chlorides: 600 mg/kg

FALSE

OSE POD Location Map (0.5-mile)



10/3/2023, 5:05:08 PM

GIS WATERS PODs
- Active
- Pending

OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

Both Estates

SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau,

Online web user
This is an unofficial map from the OSE's online application.

OSE POD Location Map (1,000 ft)

10/3/2023, 5:03:05 PM

GIS WATERS PODs

Active

OSE District Boundary

SiteBoundaries

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: CP 00421 **Subbasin:** CP **Cross Reference:** -

Primary Purpose: COM COMMERCIAL

Primary Status: CAN CANCELLED

Total Acres: 0 **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: NELSON T. POPE

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	593158	APPRO	1967-03-01	CAN	FIN	CP 00421	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 00421 POD1			4	4	1	14	20S	28E	579855	3604443*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Priority Summary

Priority	Status	Acres	Diversion	Pod Number
12/14/1966	CAN	0	0	CP 00421 POD1

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0	0		COM	12/14/1966	CAN	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	0		COM	12/14/1966	GW	

New Mexico Office of the State Engineer
Transaction Summary

APPRO Application to Appropriate

Transaction Number: 593158 **Transaction Desc:** CP 00421 **File Date:** 12/14/1966

Primary Status: CAN Cancelled Permit
Secondary Status: FIN Finalized
Person Assigned: *******
Applicant: NELSON T. POPE

Events

	Date	Type	Description	Comment	Processed By
get images	12/14/1966	APP	Application Received	*	*******
	03/01/1967	PUA	PBU Approval		*******
	03/01/1967	FIN	Final Action on application		*******
	01/08/1974	FCN	Finalize Cancel of permit		*******
get images	10/03/2016	TEC	Technical Report	*FILE JACKET	*******
	10/03/2016	QAT	Quality Assurance Completed	SQ2	*******
	10/11/2016	QAT	Quality Assurance Completed	IMAGE	*******

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 00421	0	0		COM COMMERCIAL

****Point of Diversion**

CP 00421 POD1		579855	3604443*

*An (*) after northing value indicates UTM location was derived from PLSS - see Help

****Place of Use**

Q 256	Q 64	Q 16	Q 4	Sec	Tws	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other Loc Desc
							0	0		COM	12/14/1966	CAN	NO PLACE OF USE GIVEN

Remarks

"I PLAN TO DRILL OUT THE CEMENT PLUG AT THE TOP OF THE 7" CASING, CLEAN THE WELL OUT TO 500 FEET, PERFORATE THE 7" CASING FROM APPROX. 470 FEET TO 490 FEET AND COMPLETE AS A BRINE WATER WELL."

ABSTRACTOR'S NOTE: METER CONDITION 5B WAS ADDED TO THIS TRANSACTION PER STATE ENGINEER ADOPTED GROUNDWATER REGULATION 1-18. SEE STATE ENGINEER ORDER DATED 02/09/1993.

Conditions

5B A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records

shall be submitted to the District Supervisor on or before the 10th of Jan., April, July, and Oct. of each year for the 3 preceding calendar months.

x

Action of the State Engineer

TOTAL APPROPRIATION FROM CP-421 SHALL NOT EXCEED 100 ACRE FEET PER ANNUM.

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 03/01/1967

PBU Due Date: 03/31/1971

State Engineer:

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00525	3	2	1	14	20S	28E	579656	3604847*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 10/14/1973 **Drill Finish Date:** 10/24/1973 **Plug Date:**

Log File Date: 11/05/1973 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 40 GPM

Casing Size: 7.00 **Depth Well:** 171 feet **Depth Water:** 140 feet

Water Bearing Stratifications:	Top	Bottom	Description
	140	171	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	140	171

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 473864 **Transaction Desc:** CP 00525 **File Date:** 10/03/1973

Primary Status: PMT Permit
Secondary Status: LOG Well Log Received
Person Assigned: *******
Applicant: CITIES SERVICE OIL COMPANY

Events

	Date	Type	Description	Comment	Processed By
get images	10/03/1973	APP	Application Received	*	*******
	10/05/1973	FIN	Final Action on application		*******
	10/05/1973	WAP	General Approval Letter		*******
get images	11/05/1973	LOG	Well Log Received	*	*******
	11/05/1973	CN5	Meter Installation Request		*******
	03/09/2011	QAT	Quality Assurance Completed	IMAGES	*******
	06/09/2011	ARV	Rec & Arch - file location	CP 00525 Box: 502	*******

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 00525		3		

****Point of Diversion**

CP 00525		579656	3604847*

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Remarks

IT IS PROPOSED TO USE THE WATER WELL TO SUPPLY WATER FOR DRILLING CITIES SERVICE OIL CO.'S GOVERNMENT "T" NO. 1 LOCATED 810' FNL, 1980' FWL, SEC. 14-20S-28E, EDDY CO., NEW MEXICO (APPLICATION TO DRILL APPROVED BY USGS 9/18/1973). WATER WELL

CONTINUED: TO BE DRILLED AT SOUTHWEST CORNER OF DRILLING PAD.

Conditions

1A Depth of the well shall not exceed the thickness of the valley fill.

4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

5A A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation,

and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor for each calendar month on or before the 10th day of the following month.

6 The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.

x

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 10/05/1973

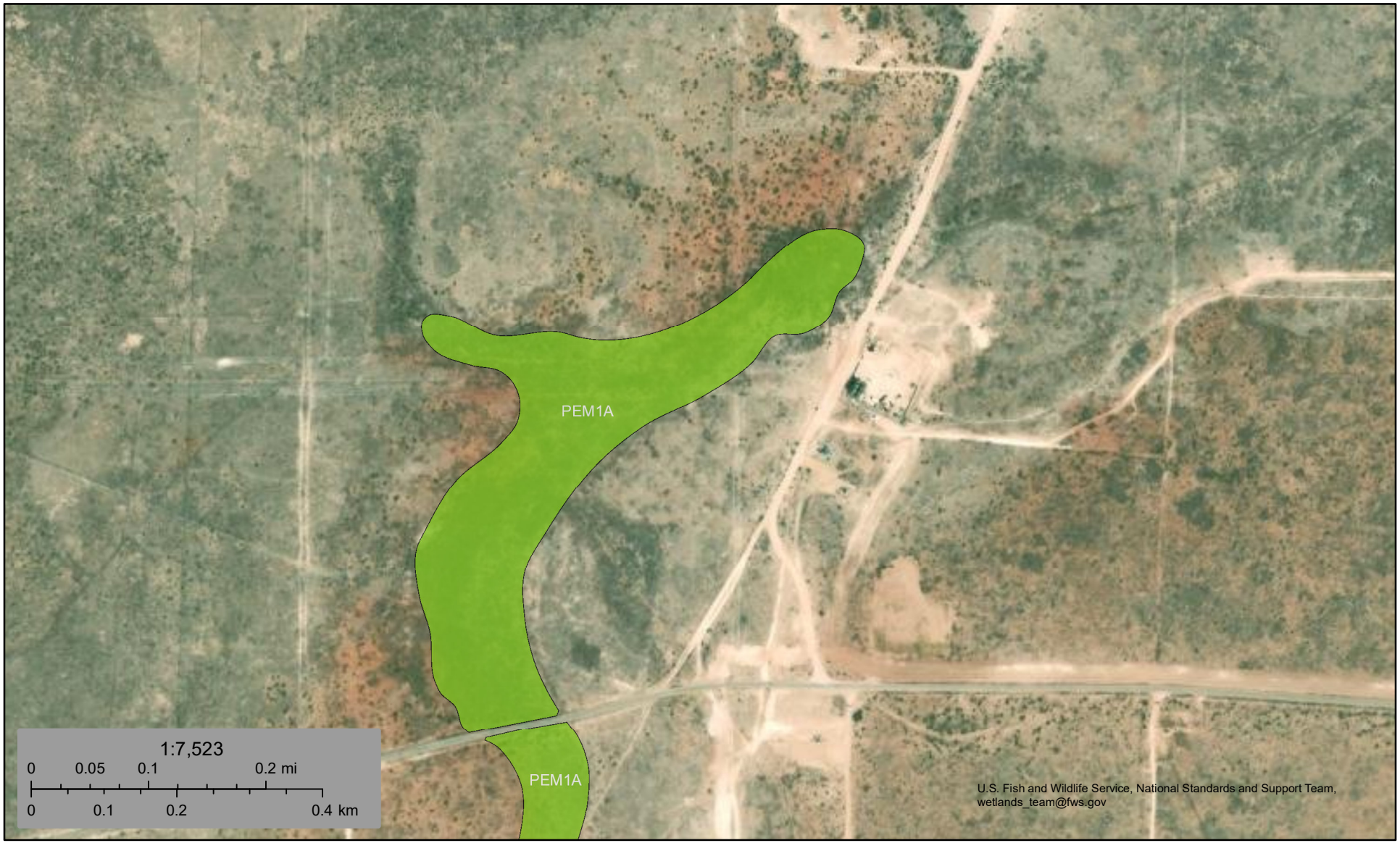
Log Due Date: 10/31/1974

State Engineer: John R. D Antonio,

10/3/23 4:18 PM TRANSACTION SUMMARY

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands



August 15, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

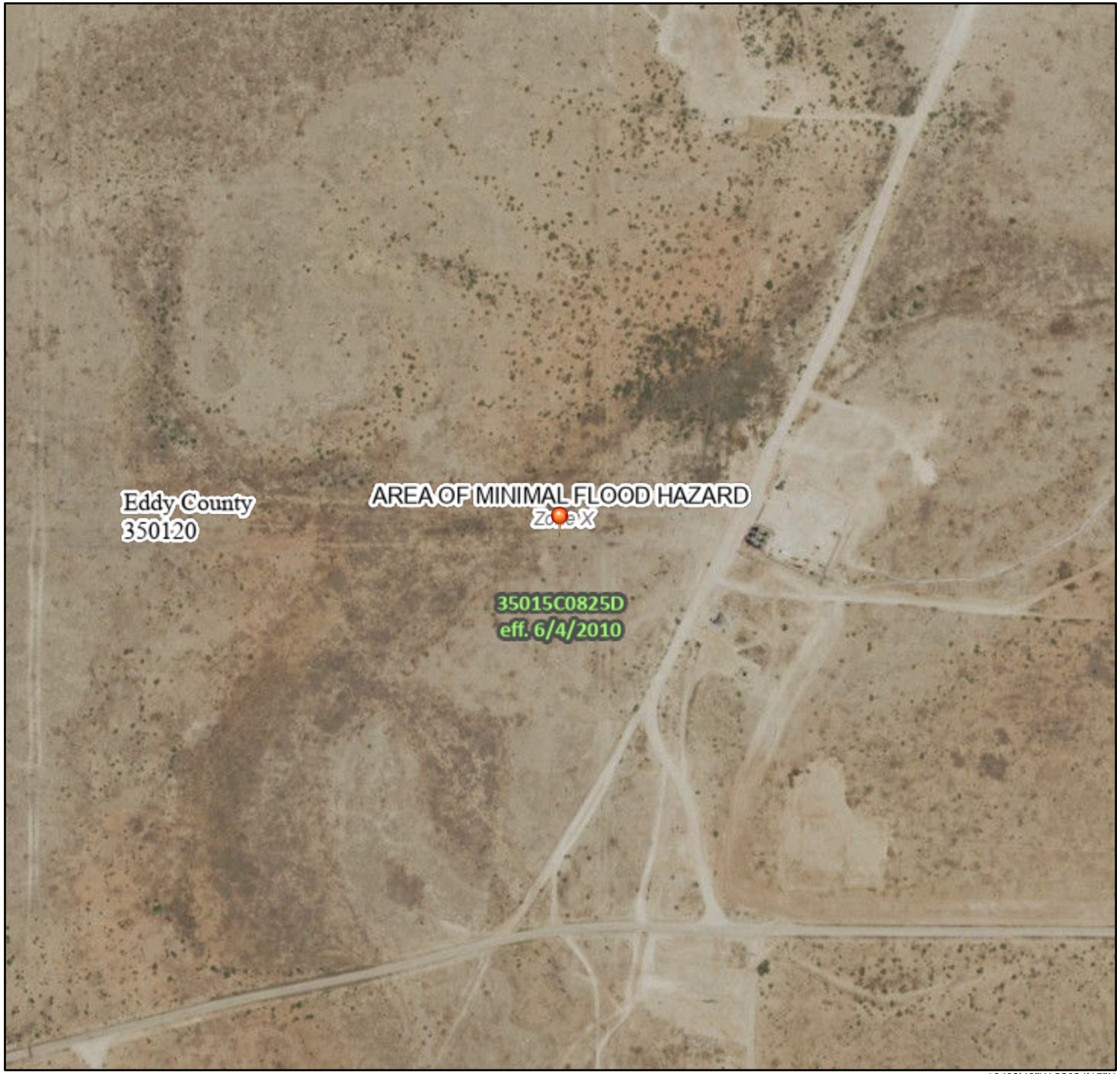
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

National Flood Hazard Layer FIRMette

FEMA

104°9'25"W 32°34'46"N



104°8'48"W 32°34'15"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

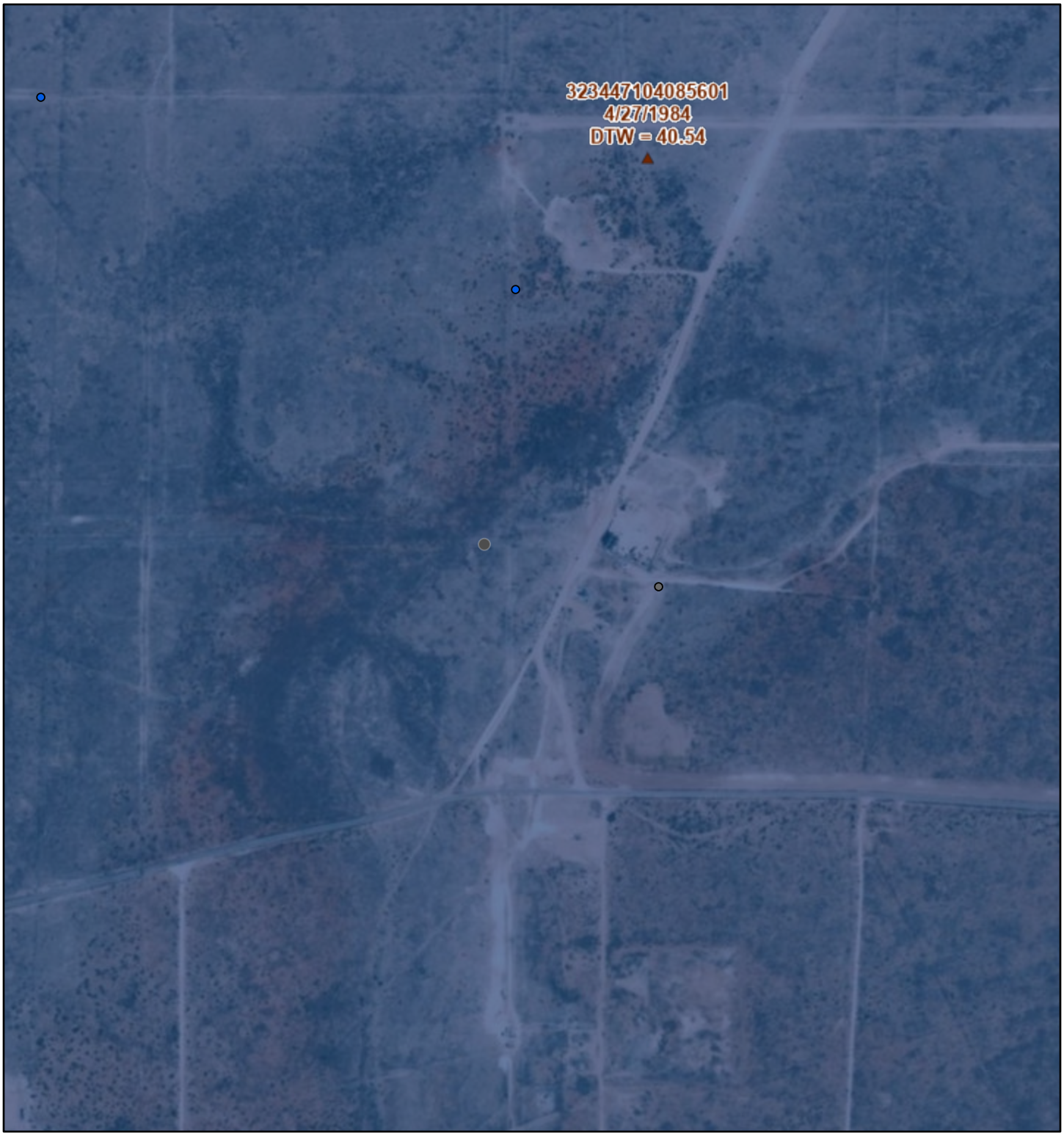
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/15/2023 at 3:30 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

OCD Well Locations



8/15/2023, 2:25:52 PM

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

OSE Water PODs

Active

Unknown

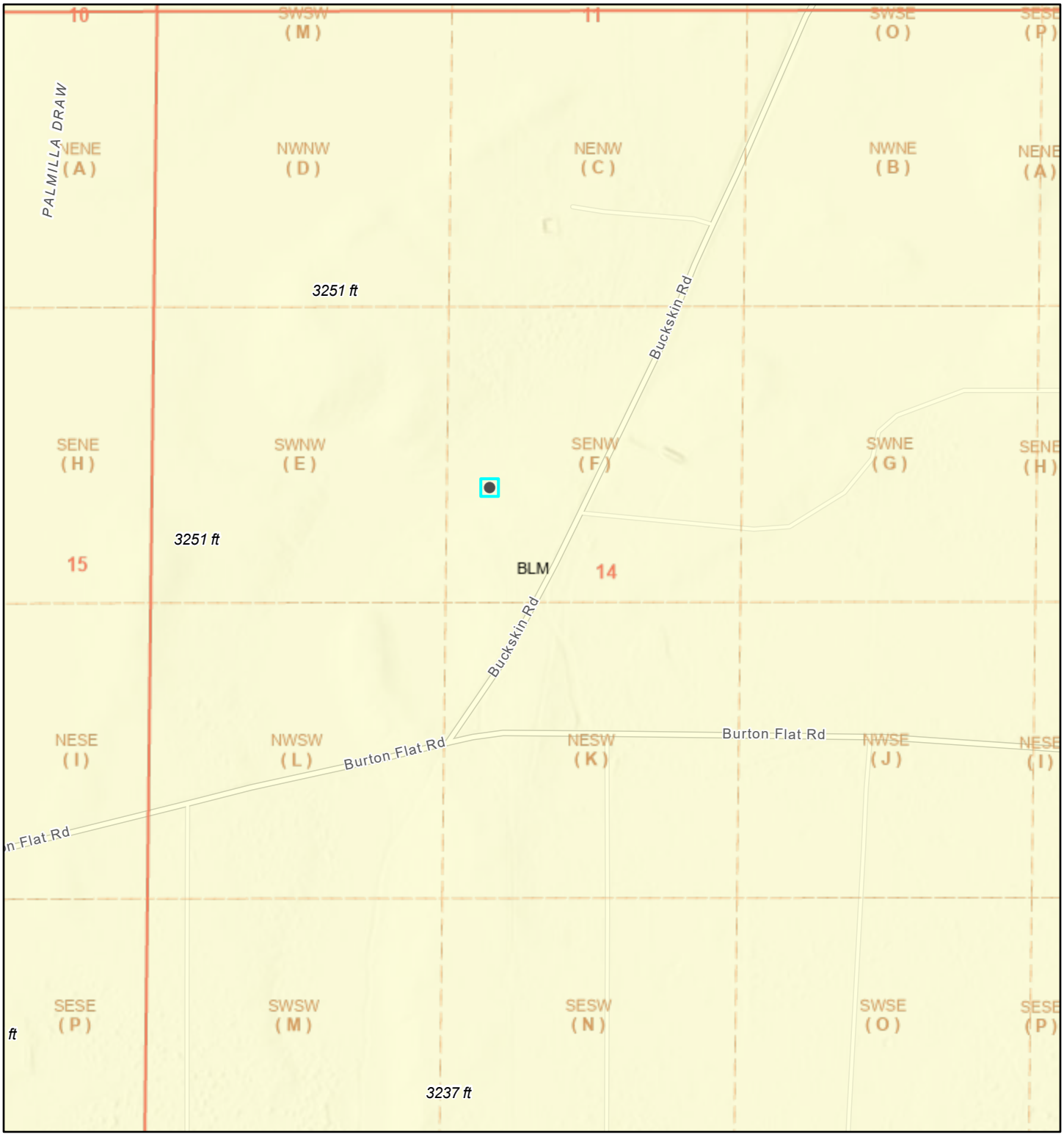
USGS Historical GW Wells

Karst Occurrence Potential

High

BLM, OCD, New Mexico Tech, USGS, Esri, HERE, Garmin, iPC, Maxar

Active Mines in New Mexico



8/15/2023, 2:27:16 PM

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

Land Ownership

BLM

PLSS Second Division

PLSS First Division

U.S. BLM, Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau,

EMNRD MMD GIS Coordinator

New Mexico Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

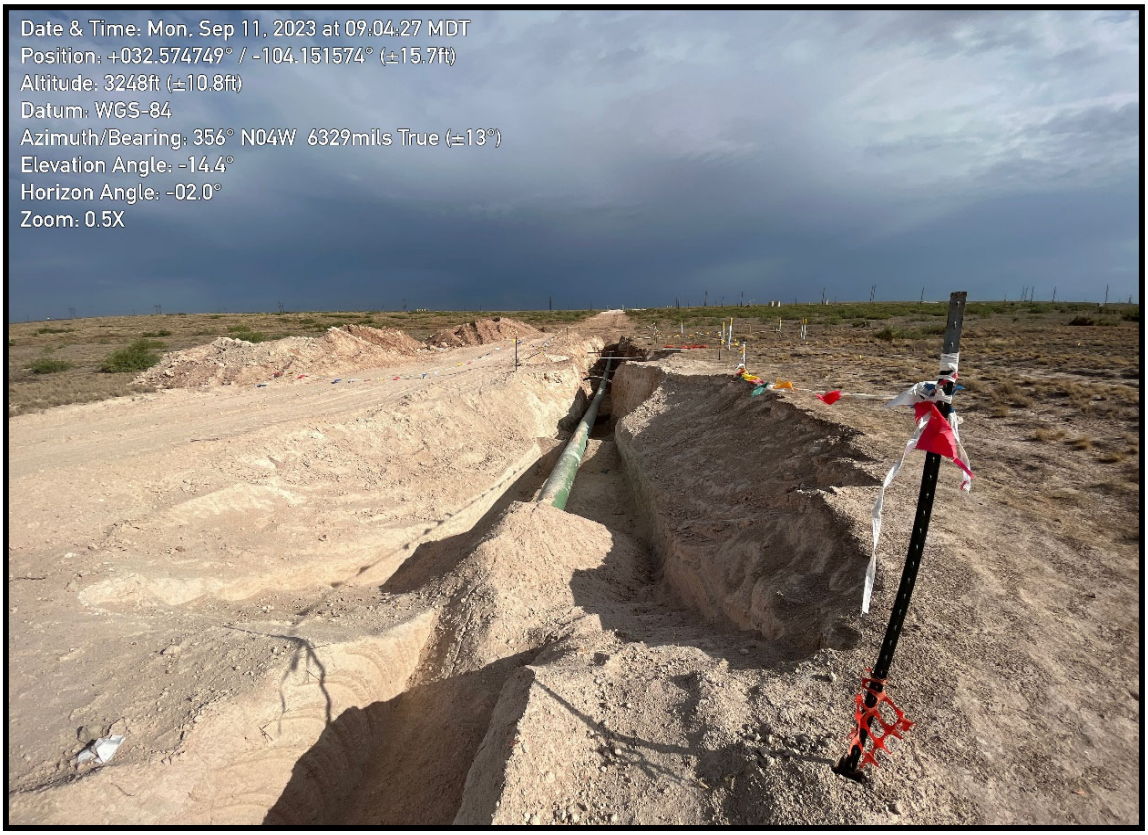
ENSOLUM

APPENDIX C

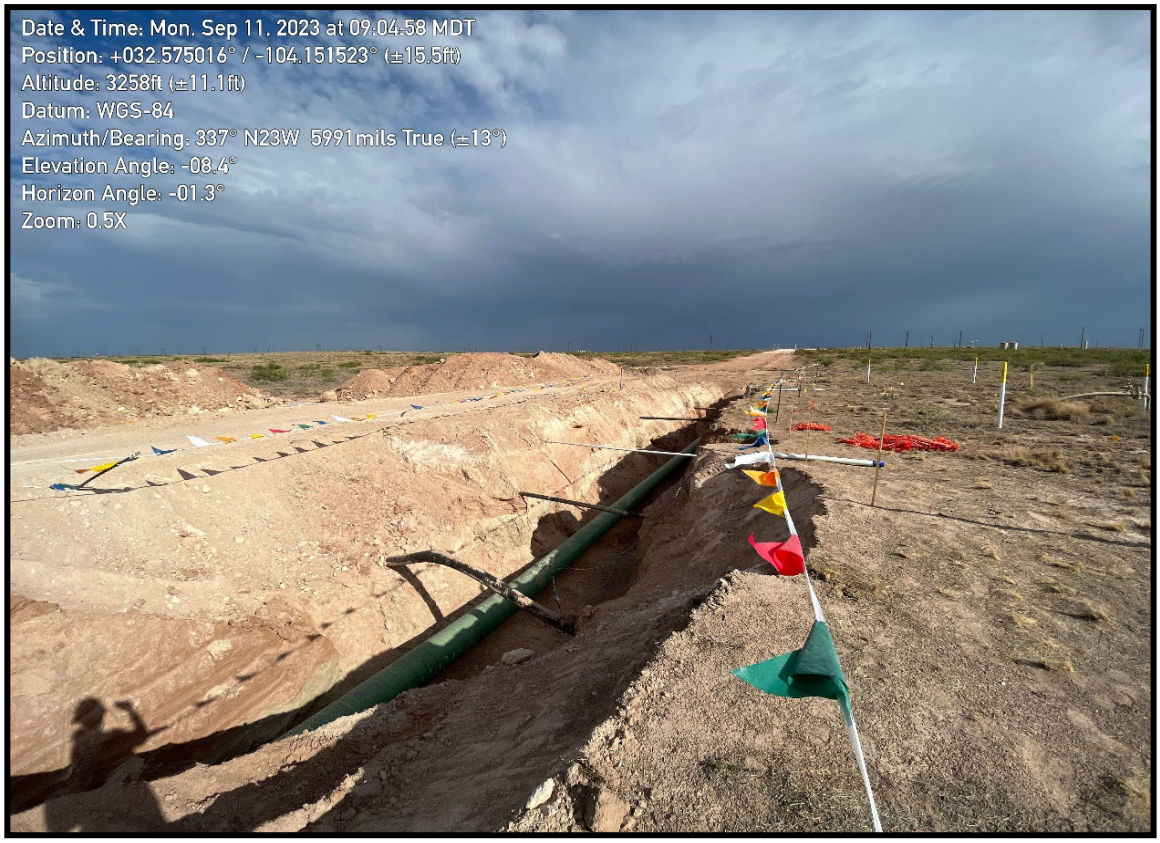
Photographic Documentation

View of the initial release point (August 1, 2023), facing south.

View of the initial release overspray area (August 1, 2023), facing southeast.



View of the final excavation area (September 11, 2023), facing north.



View of the final excavation area (September 11, 2023), facing northwest.

View of the final excavation area (September 11, 2023), facing south.

View of the final excavation area (September 11, 2023), facing southeast.

ENSOLUM

APPENDIX D

Table

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Burton Flats 6 Inch
Enterprise Field Services, LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226307

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Confirmation Overspray Extent Surface Sample Analytical Results												
SS01	08/01/2023	0.5	<0.018	<0.036	<0.036	<0.072	<0.072	<3.6	**12**	<49	<49	<61
SS02	08/01/2023	0.5	<0.020	<0.039	<0.039	<0.078	<0.078	<3.9	<9.5	<48	<48	<60
SS03	08/01/2023	0.5	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	<60
SS04	08/01/2023	0.5	<0.018	<0.037	<0.037	<0.073	<0.073	<3.7	<9.4	<47	<47	<60
SS-05	08/16/2023	0.5	<0.020	<0.040	<0.040	<0.079	<0.079	<4.0	**120**	**160**	**280**	**140**
SS-06	08/16/2023	0.5	<0.017	<0.035	<0.035	<0.070	<0.070	<3.5	**470**	**420**	**890**	**900**
SS-07	08/16/2023	0.5	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	**810**	**540**	**1,350**	**4,300**
Composite Excavation Floor Soil Sample Analytical Results												
FS-1	08/16/2023	10	<0.019	<0.037	<0.037	<0.074	<0.074	<3.7	**320**	**210**	**530**	**1,200**
	08/25/2023	11.5	NS					<3.3	<9.6	<48	<48	**290**
FS-2	08/16/2023	10	<0.022	<0.044	<0.044	<0.088	<0.088	<4.4	**590**	**400**	**990**	**280**
	08/25/2023	11.5	NS					<4.0	<8.8	<44	<44	NS
FS-3	08/16/2023	10	<0.020	<0.039	<0.039	<0.078	<0.078	<3.9	**57**	<49	**57**	**250**
FS-4	08/25/2023	11.5	<0.021	<0.042	<0.042	<0.084	<0.084	<4.2	**58**	**48**	**106**	**250**
	09/11/2023	11.5	NS					<3.7	<9.2	<46	<46	NS
FS-5	08/25/2023	11.5	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<8.7	<44	<44	**65**
Composite Excavation Sidewall Soil Sample Analytical Results												
SW-1	08/16/2023	0 - 10	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	<9.8	<49	<49	<60
SW-2	08/16/2023	0 - 10	<0.023	<0.045	<0.045	<0.091	<0.091	<4.5	**540**	**440**	**980**	**1,900**
	08/25/2023	0 - 10	NS					<4.5	<9.5	<48	<48	<60
SW-3	08/16/2023	0 - 10	<0.018	<0.037	<0.037	<0.073	<0.073	<3.7	**640**	**410**	**1,050**	**1,600**
SW-4	08/16/2023	0 - 10	<0.018	<0.037	<0.037	<0.074	<0.074	<3.7	**820**	**560**	**1,380**	**350**
	08/25/2023	0 - 10	NS					<3.7	<9.5	<48	<48	NS
SW-5	08/16/2023	0 - 10	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	**670**	**490**	**1,160**	**960**
SW-6	08/25/2023	0 - 10	<0.018	<0.036	<0.036	<0.072	<0.072	<3.6	<9.7	<48	<48	**210**
SW-7	08/25/2023	0 - 10	<0.022	<0.044	<0.044	<0.089	<0.089	<4.4	**83**	**57**	**140**	**320**
	09/11/2023	0 - 10	NS					<3.6	<9.9	<50	<50	NS
SW-8	08/25/2023	0 - 10	<0.021	<0.041	<0.041	<0.082	<0.082	<4.1	<9.4	<47	<47	**140**
SW-9	08/25/2023	0 - 10	<0.020	<0.040	<0.040	<0.081	<0.081	<4.0	**72**	**54**	**126**	**180**
	09/11/2023	0 - 10	NS					<3.9	<9.3	<46	<46	NS
Confirmation Delineation Soil Sample Analytical Results												
North	08/16/2023	0.5	<0.021	<0.041	<0.041	<0.082	<0.082	<4.1	<9.9	<49	<49	<60
North-2	09/11/2023	0.5	NS					<4.5	<9.3	<47	<47	NS
East	08/16/2023	0.5	<0.022	<0.044	<0.044	<0.087	<0.087	<4.4	<9.3	<47	<47	<60
South	08/16/2023	0.5	<0.027	<0.053	<0.053	<0.11	<0.11	<5.3	**830**	**880**	**1,710**	**550**
	08/25/2023	0- 0.5	NS					<3.7	<9.6	<48	<48	NS
West	08/16/2023	0.5	<0.023	<0.045	<0.045	<0.090	<0.090	<4.5	<9.7	<48	<48	<59
Composite Stockpile Soil Sample Analytical Results												
STP-1	08/16/2023	NA	<0.018	<0.036	<0.036	<0.072	<0.072	<3.6	**15**	<49	<49	**63**
STP-2	08/16/2023	NA	<0.019	<0.037	<0.037	<0.075	<0.075	<3.7	**22**	<49	<49	**140**
STP-3	08/25/2023	NA	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	**14**	<46	<46	**170**

*Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)*

Additional Excavation and/or Re-Sample

bgs - below ground surface
mg/kg - milligrams per kilogram
NA - Not Applicable
NE - Not Established
NS - Not Sampled
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
MRO - Motor Oil/Lube Oil Range Organics
TPH - Total Petroleum Hydrocarbon

ENSOLUM

APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 07, 2023

Kelly Lowery

Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Burton Flats OrderNo.: 2308194

Dear Kelly Lowery:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/3/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308194**
Date Reported: **8/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS01
Project: Burton Flats **Collection Date:** 8/1/2023 9:25:00 AM
Lab ID: 2308194-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/3/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	8/3/2023 1:29:03 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/3/2023 1:29:03 PM
Surr: DNOP	71.6	69-147		%Rec	1	8/3/2023 1:29:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/4/2023 4:00:00 AM
Surr: BFB	97.6	15-244		%Rec	1	8/4/2023 4:00:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.018		mg/Kg	1	8/4/2023 4:00:00 AM
Toluene	ND	0.036		mg/Kg	1	8/4/2023 4:00:00 AM
Ethylbenzene	ND	0.036		mg/Kg	1	8/4/2023 4:00:00 AM
Xylenes, Total	ND	0.072		mg/Kg	1	8/4/2023 4:00:00 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146		%Rec	1	8/4/2023 4:00:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	ND	61		mg/Kg	20	8/3/2023 4:50:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308194**
Date Reported: **8/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS02
Project: Burton Flats **Collection Date:** 8/1/2023 9:35:00 AM
Lab ID: 2308194-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/3/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/3/2023 1:53:28 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/3/2023 1:53:28 PM
Surr: DNOP	86.1	69-147		%Rec	1	8/3/2023 1:53:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/4/2023 4:22:00 AM
Surr: BFB	94.6	15-244		%Rec	1	8/4/2023 4:22:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.020		mg/Kg	1	8/4/2023 4:22:00 AM
Toluene	ND	0.039		mg/Kg	1	8/4/2023 4:22:00 AM
Ethylbenzene	ND	0.039		mg/Kg	1	8/4/2023 4:22:00 AM
Xylenes, Total	ND	0.078		mg/Kg	1	8/4/2023 4:22:00 AM
Surr: 4-Bromofluorobenzene	89.7	39.1-146		%Rec	1	8/4/2023 4:22:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	ND	60		mg/Kg	20	8/3/2023 5:03:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308194**
Date Reported: **8/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS03
Project: Burton Flats **Collection Date:** 8/1/2023 9:40:00 AM
Lab ID: 2308194-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/3/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/3/2023 2:17:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/3/2023 2:17:51 PM
Surr: DNOP	86.6	69-147		%Rec	1	8/3/2023 2:17:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/4/2023 4:43:00 AM
Surr: BFB	95.6	15-244		%Rec	1	8/4/2023 4:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	8/4/2023 4:43:00 AM
Toluene	ND	0.047		mg/Kg	1	8/4/2023 4:43:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	8/4/2023 4:43:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	8/4/2023 4:43:00 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146		%Rec	1	8/4/2023 4:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	ND	60		mg/Kg	20	8/3/2023 5:15:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308194**
Date Reported: **8/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS04
Project: Burton Flats **Collection Date:** 8/1/2023 9:45:00 AM
Lab ID: 2308194-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/3/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/3/2023 2:42:33 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/3/2023 2:42:33 PM
Surr: DNOP	80.0	69-147		%Rec	1	8/3/2023 2:42:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/4/2023 5:05:00 AM
Surr: BFB	96.3	15-244		%Rec	1	8/4/2023 5:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.018		mg/Kg	1	8/4/2023 5:05:00 AM
Toluene	ND	0.037		mg/Kg	1	8/4/2023 5:05:00 AM
Ethylbenzene	ND	0.037		mg/Kg	1	8/4/2023 5:05:00 AM
Xylenes, Total	ND	0.073		mg/Kg	1	8/4/2023 5:05:00 AM
Surr: 4-Bromofluorobenzene	93.6	39.1-146		%Rec	1	8/4/2023 5:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	ND	60		mg/Kg	20	8/3/2023 5:27:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308194**

07-Aug-23

Client: Ensolum LLC

Project: Burton Flats

Sample ID: **LCS-76659**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **76659**	RunNo: **98737**
Prep Date: **8/3/2023**	Analysis Date: **8/3/2023**	SeqNo: **3596542** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308194**

07-Aug-23

Client: Ensolum LLC

Project: Burton Flats

Sample ID: **MB-76650**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **76650**	RunNo: **98707**
Prep Date: **8/3/2023**	Analysis Date: **8/3/2023**	SeqNo: **3595364** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.3	69	147			

Sample ID: **LCS-76650**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **76650**	RunNo: **98707**
Prep Date: **8/3/2023**	Analysis Date: **8/3/2023**	SeqNo: **3595365** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.7	61.9	130			
Surr: DNOP	4.5		5.000		89.1	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308194**

07-Aug-23

Client: Ensolum LLC

Project: Burton Flats

Sample ID: **100ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3594928** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.4	70	130			
Surr: BFB	2200		1000		215	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3594929** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		105	15	244			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3596291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.6	70	130			
Surr: BFB	2100		1000		207	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3596292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.0	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308194**

07-Aug-23

Client: Ensolum LLC

Project: Burton Flats

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3594931** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	70	130			
Toluene	0.96	0.050	1.000	0	96.2	70	130			
Ethylbenzene	0.97	0.050	1.000	0	96.7	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.5	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3594932** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3596324** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	70	130			
Toluene	0.96	0.050	1.000	0	96.3	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.2	70	130			
Xylenes, Total	2.9	0.10	3.000	0	97.2	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R98690**	RunNo: **98690**
Prep Date:	Analysis Date: **8/3/2023**	SeqNo: **3596325** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Ensolum LLC Work Order Number: 2308194 RcptNo: 1

Received By: **Tracy Casarrubias** 8/3/2023 7:20:00 AM

Completed By: **Tracy Casarrubias** 8/3/2023 8:08:00 AM

Reviewed By: TMC 8/3/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☑ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Approved by client.
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
    # of preserved bottles checked for pH:
    (<2 or >12 unless noted)
11. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
    Adjusted?
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)
    Checked by: SCM 08/03/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: Client didn't provide a time or date of relinquishment- TMC 8/3/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	8.2	Good	Yes	Yogi		

Chain-of-Custody Record

Client: ~~Enterprise~~ TV Ensolum, LLC

Mailing Address: 3122 National Parks Hwy
Carlsbad, NM 88220

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24 hr

Project Name:
Burton Flats

Project #:
03B1226307

Project Manager:
Kelly Lowery

Sampler: Peter Van Patten

On Ice: ☑ Yes ☐ No ijoqi

# of Coolers: 1

Cooler Temp(including CF): 8.0+0.2=8.2 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Depth	Container Type and #	Preservative Type	HEAL No. 2308194	BTEX MTBE / TMB's (8021)	TPH:8015D(GRO) DRO / MRO	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8-1-23	925	Soil	SS01	0.5'	1 jar	ice	001	✓	✓					✓			
8-1-23	935	Soil	SS02	0.5'	1 jar	ice	002	✓	✓					✓			
8-1-23	940	Soil	SS03	0.5'	1 jar	ice	003	✓	✓					✓			
8-1-23	945	Soil	SS04	0.5	1 jar	ice	004	✓	✓					✓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		Peter Van Patten			8/2/23	810
8/2/23	900				8/3/23	7:20

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 25, 2023

Kelly Lowery

Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Burton Flats 6 Inch OrderNo.: 2308A27

Dear Kelly Lowery:

Hall Environmental Analysis Laboratory received 17 sample(s) on 8/18/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** North
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:00:00 PM
Lab ID: 2308A27-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/18/2023 3:08:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2023 3:08:48 PM
Surr: DNOP	96.3	69-147		%Rec	1	8/18/2023 3:08:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/18/2023 2:26:00 PM
Surr: BFB	102	15-244		%Rec	1	8/18/2023 2:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.021		mg/Kg	1	8/18/2023 2:26:00 PM
Toluene	ND	0.041		mg/Kg	1	8/18/2023 2:26:00 PM
Ethylbenzene	ND	0.041		mg/Kg	1	8/18/2023 2:26:00 PM
Xylenes, Total	ND	0.082		mg/Kg	1	8/18/2023 2:26:00 PM
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	8/18/2023 2:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	8/18/2023 5:27:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** South
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:02:00 PM
Lab ID: 2308A27-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	830	9.8		mg/Kg	1	8/18/2023 3:27:36 PM
Motor Oil Range Organics (MRO)	880	49		mg/Kg	1	8/18/2023 3:27:36 PM
Surr: DNOP	75.8	69-147		%Rec	1	8/18/2023 3:27:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	8/18/2023 2:48:00 PM
Surr: BFB	105	15-244		%Rec	1	8/18/2023 2:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.027		mg/Kg	1	8/18/2023 2:48:00 PM
Toluene	ND	0.053		mg/Kg	1	8/18/2023 2:48:00 PM
Ethylbenzene	ND	0.053		mg/Kg	1	8/18/2023 2:48:00 PM
Xylenes, Total	ND	0.11		mg/Kg	1	8/18/2023 2:48:00 PM
Surr: 4-Bromofluorobenzene	94.6	39.1-146		%Rec	1	8/18/2023 2:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	550	60		mg/Kg	20	8/18/2023 5:40:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** East
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:04:00 PM
Lab ID: 2308A27-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/18/2023 4:04:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/18/2023 4:04:52 PM
Surr: DNOP	81.8	69-147		%Rec	1	8/18/2023 4:04:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	8/18/2023 3:10:00 PM
Surr: BFB	106	15-244		%Rec	1	8/18/2023 3:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.022		mg/Kg	1	8/18/2023 3:10:00 PM
Toluene	ND	0.044		mg/Kg	1	8/18/2023 3:10:00 PM
Ethylbenzene	ND	0.044		mg/Kg	1	8/18/2023 3:10:00 PM
Xylenes, Total	ND	0.087		mg/Kg	1	8/18/2023 3:10:00 PM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	8/18/2023 3:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	8/18/2023 7:07:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** West
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:06:00 PM
Lab ID: 2308A27-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/18/2023 4:23:24 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2023 4:23:24 PM
Surr: DNOP	76.6	69-147		%Rec	1	8/18/2023 4:23:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	8/18/2023 3:32:00 PM
Surr: BFB	105	15-244		%Rec	1	8/18/2023 3:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.023		mg/Kg	1	8/18/2023 3:32:00 PM
Toluene	ND	0.045		mg/Kg	1	8/18/2023 3:32:00 PM
Ethylbenzene	ND	0.045		mg/Kg	1	8/18/2023 3:32:00 PM
Xylenes, Total	ND	0.090		mg/Kg	1	8/18/2023 3:32:00 PM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	8/18/2023 3:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	59		mg/Kg	20	8/18/2023 7:19:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** STP-1
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:08:00 PM
Lab ID: 2308A27-005 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	15	9.8		mg/Kg	1	8/18/2023 4:41:57 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2023 4:41:57 PM
Surr: DNOP	78.5	69-147		%Rec	1	8/18/2023 4:41:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/18/2023 3:54:00 PM
Surr: BFB	103	15-244		%Rec	1	8/18/2023 3:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.018		mg/Kg	1	8/18/2023 3:54:00 PM
Toluene	ND	0.036		mg/Kg	1	8/18/2023 3:54:00 PM
Ethylbenzene	ND	0.036		mg/Kg	1	8/18/2023 3:54:00 PM
Xylenes, Total	ND	0.072		mg/Kg	1	8/18/2023 3:54:00 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	8/18/2023 3:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	63	60		mg/Kg	20	8/18/2023 7:32:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** STP-2
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:10:00 PM
Lab ID: 2308A27-006 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	22	9.9		mg/Kg	1	8/18/2023 5:00:36 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2023 5:00:36 PM
Surr: DNOP	80.2	69-147		%Rec	1	8/18/2023 5:00:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/18/2023 4:16:00 PM
Surr: BFB	107	15-244		%Rec	1	8/18/2023 4:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.019		mg/Kg	1	8/18/2023 4:16:00 PM
Toluene	ND	0.037		mg/Kg	1	8/18/2023 4:16:00 PM
Ethylbenzene	ND	0.037		mg/Kg	1	8/18/2023 4:16:00 PM
Xylenes, Total	ND	0.075		mg/Kg	1	8/18/2023 4:16:00 PM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	8/18/2023 4:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	140	60		mg/Kg	20	8/18/2023 7:44:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** FS-1
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:12:00 PM
Lab ID: 2308A27-007 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	320	9.8		mg/Kg	1	8/18/2023 5:19:02 PM
Motor Oil Range Organics (MRO)	210	49		mg/Kg	1	8/18/2023 5:19:02 PM
Surr: DNOP	72.2	69-147		%Rec	1	8/18/2023 5:19:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/18/2023 4:38:00 PM
Surr: BFB	102	15-244		%Rec	1	8/18/2023 4:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.019		mg/Kg	1	8/18/2023 4:38:00 PM
Toluene	ND	0.037		mg/Kg	1	8/18/2023 4:38:00 PM
Ethylbenzene	ND	0.037		mg/Kg	1	8/18/2023 4:38:00 PM
Xylenes, Total	ND	0.074		mg/Kg	1	8/18/2023 4:38:00 PM
Surr: 4-Bromofluorobenzene	93.6	39.1-146		%Rec	1	8/18/2023 4:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	1200	60		mg/Kg	20	8/18/2023 7:56:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** FS-2
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:14:00 PM
Lab ID: 2308A27-008 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	590	9.5		mg/Kg	1	8/18/2023 5:37:42 PM
Motor Oil Range Organics (MRO)	400	48		mg/Kg	1	8/18/2023 5:37:42 PM
Surr: DNOP	70.2	69-147		%Rec	1	8/18/2023 5:37:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	8/18/2023 5:00:00 PM
Surr: BFB	102	15-244		%Rec	1	8/18/2023 5:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.022		mg/Kg	1	8/18/2023 5:00:00 PM
Toluene	ND	0.044		mg/Kg	1	8/18/2023 5:00:00 PM
Ethylbenzene	ND	0.044		mg/Kg	1	8/18/2023 5:00:00 PM
Xylenes, Total	ND	0.088		mg/Kg	1	8/18/2023 5:00:00 PM
Surr: 4-Bromofluorobenzene	93.1	39.1-146		%Rec	1	8/18/2023 5:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	280	60		mg/Kg	20	8/18/2023 8:09:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** FS-3
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:16:00 PM
Lab ID: 2308A27-009 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	57	9.9		mg/Kg	1	8/18/2023 6:38:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2023 6:38:35 PM
Surr: DNOP	86.9	69-147		%Rec	1	8/18/2023 6:38:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/18/2023 5:21:00 PM
Surr: BFB	102	15-244		%Rec	1	8/18/2023 5:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.020		mg/Kg	1	8/18/2023 5:21:00 PM
Toluene	ND	0.039		mg/Kg	1	8/18/2023 5:21:00 PM
Ethylbenzene	ND	0.039		mg/Kg	1	8/18/2023 5:21:00 PM
Xylenes, Total	ND	0.078		mg/Kg	1	8/18/2023 5:21:00 PM
Surr: 4-Bromofluorobenzene	92.7	39.1-146		%Rec	1	8/18/2023 5:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	250	60		mg/Kg	20	8/18/2023 8:46:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SW-1
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:18:00 PM
Lab ID: 2308A27-010 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/21/2023 4:10:23 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2023 4:10:23 PM
Surr: DNOP	91.7	69-147		%Rec	1	8/21/2023 4:10:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	8/18/2023 6:05:00 PM
Surr: BFB	110	15-244		%Rec	1	8/18/2023 6:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.020		mg/Kg	1	8/18/2023 6:05:00 PM
Toluene	ND	0.040		mg/Kg	1	8/18/2023 6:05:00 PM
Ethylbenzene	ND	0.040		mg/Kg	1	8/18/2023 6:05:00 PM
Xylenes, Total	ND	0.080		mg/Kg	1	8/18/2023 6:05:00 PM
Surr: 4-Bromofluorobenzene	94.2	39.1-146		%Rec	1	8/18/2023 6:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	8/18/2023 8:58:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SW-2
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:20:00 PM
Lab ID: 2308A27-011 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	540	9.5		mg/Kg	1	8/18/2023 7:36:28 PM
Motor Oil Range Organics (MRO)	440	47		mg/Kg	1	8/18/2023 7:36:28 PM
Surr: DNOP	73.7	69-147		%Rec	1	8/18/2023 7:36:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	8/18/2023 6:27:00 PM
Surr: BFB	100	15-244		%Rec	1	8/18/2023 6:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.023		mg/Kg	1	8/18/2023 6:27:00 PM
Toluene	ND	0.045		mg/Kg	1	8/18/2023 6:27:00 PM
Ethylbenzene	ND	0.045		mg/Kg	1	8/18/2023 6:27:00 PM
Xylenes, Total	ND	0.091		mg/Kg	1	8/18/2023 6:27:00 PM
Surr: 4-Bromofluorobenzene	91.9	39.1-146		%Rec	1	8/18/2023 6:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	1900	60		mg/Kg	20	8/18/2023 9:11:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SW-3
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:22:00 PM
Lab ID: 2308A27-012 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	640	9.7		mg/Kg	1	8/18/2023 8:14:58 PM
Motor Oil Range Organics (MRO)	410	48		mg/Kg	1	8/18/2023 8:14:58 PM
Surr: DNOP	77.0	69-147		%Rec	1	8/18/2023 8:14:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/18/2023 6:49:00 PM
Surr: BFB	103	15-244		%Rec	1	8/18/2023 6:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.018		mg/Kg	1	8/18/2023 6:49:00 PM
Toluene	ND	0.037		mg/Kg	1	8/18/2023 6:49:00 PM
Ethylbenzene	ND	0.037		mg/Kg	1	8/18/2023 6:49:00 PM
Xylenes, Total	ND	0.073		mg/Kg	1	8/18/2023 6:49:00 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	8/18/2023 6:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	1600	60		mg/Kg	20	8/18/2023 9:23:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SW-4
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:24:00 PM
Lab ID: 2308A27-013 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	820	9.2		mg/Kg	1	8/18/2023 8:52:33 PM
Motor Oil Range Organics (MRO)	560	46		mg/Kg	1	8/18/2023 8:52:33 PM
Surr: DNOP	76.1	69-147		%Rec	1	8/18/2023 8:52:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/18/2023 7:11:00 PM
Surr: BFB	101	15-244		%Rec	1	8/18/2023 7:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.018		mg/Kg	1	8/18/2023 7:11:00 PM
Toluene	ND	0.037		mg/Kg	1	8/18/2023 7:11:00 PM
Ethylbenzene	ND	0.037		mg/Kg	1	8/18/2023 7:11:00 PM
Xylenes, Total	ND	0.074		mg/Kg	1	8/18/2023 7:11:00 PM
Surr: 4-Bromofluorobenzene	92.5	39.1-146		%Rec	1	8/18/2023 7:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	350	60		mg/Kg	20	8/18/2023 9:36:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SW-5
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 1:26:00 PM
Lab ID: 2308A27-014 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	670	9.7		mg/Kg	1	8/18/2023 9:30:06 PM
Motor Oil Range Organics (MRO)	490	48		mg/Kg	1	8/18/2023 9:30:06 PM
Surr: DNOP	82.5	69-147		%Rec	1	8/18/2023 9:30:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/18/2023 7:33:00 PM
Surr: BFB	97.4	15-244		%Rec	1	8/18/2023 7:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.025		mg/Kg	1	8/18/2023 7:33:00 PM
Toluene	ND	0.049		mg/Kg	1	8/18/2023 7:33:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/18/2023 7:33:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/18/2023 7:33:00 PM
Surr: 4-Bromofluorobenzene	90.4	39.1-146		%Rec	1	8/18/2023 7:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	960	60		mg/Kg	20	8/18/2023 9:48:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-05
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 2:20:00 PM
Lab ID: 2308A27-015 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	120	9.4		mg/Kg	1	8/18/2023 10:07:49 PM
Motor Oil Range Organics (MRO)	160	47		mg/Kg	1	8/18/2023 10:07:49 PM
Surr: DNOP	82.9	69-147		%Rec	1	8/18/2023 10:07:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	8/18/2023 7:55:00 PM
Surr: BFB	104	15-244		%Rec	1	8/18/2023 7:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.020		mg/Kg	1	8/18/2023 7:55:00 PM
Toluene	ND	0.040		mg/Kg	1	8/18/2023 7:55:00 PM
Ethylbenzene	ND	0.040		mg/Kg	1	8/18/2023 7:55:00 PM
Xylenes, Total	ND	0.079		mg/Kg	1	8/18/2023 7:55:00 PM
Surr: 4-Bromofluorobenzene	92.4	39.1-146		%Rec	1	8/18/2023 7:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	140	60		mg/Kg	20	8/18/2023 10:00:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-06
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 2:22:00 PM
Lab ID: 2308A27-016 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	470	10		mg/Kg	1	8/18/2023 10:45:22 PM
Motor Oil Range Organics (MRO)	420	50		mg/Kg	1	8/18/2023 10:45:22 PM
Surr: DNOP	85.3	69-147		%Rec	1	8/18/2023 10:45:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/18/2023 10:05:00 PM
Surr: BFB	99.7	15-244		%Rec	1	8/18/2023 10:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.017		mg/Kg	1	8/18/2023 10:05:00 PM
Toluene	ND	0.035		mg/Kg	1	8/18/2023 10:05:00 PM
Ethylbenzene	ND	0.035		mg/Kg	1	8/18/2023 10:05:00 PM
Xylenes, Total	ND	0.070		mg/Kg	1	8/18/2023 10:05:00 PM
Surr: 4-Bromofluorobenzene	90.9	39.1-146		%Rec	1	8/18/2023 10:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	900	60		mg/Kg	20	8/18/2023 10:13:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308A27**
Date Reported: **8/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-07
Project: Burton Flats 6 Inch **Collection Date:** 8/16/2023 2:24:00 PM
Lab ID: 2308A27-017 **Matrix:** MEOH (SOIL) **Received Date:** 8/18/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	810	9.3		mg/Kg	1	8/18/2023 11:23:18 PM
Motor Oil Range Organics (MRO)	540	47		mg/Kg	1	8/18/2023 11:23:18 PM
Surr: DNOP	97.3	69-147		%Rec	1	8/18/2023 11:23:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	8/18/2023 10:27:00 PM
Surr: BFB	102	15-244		%Rec	1	8/18/2023 10:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.020		mg/Kg	1	8/18/2023 10:27:00 PM
Toluene	ND	0.040		mg/Kg	1	8/18/2023 10:27:00 PM
Ethylbenzene	ND	0.040		mg/Kg	1	8/18/2023 10:27:00 PM
Xylenes, Total	ND	0.080		mg/Kg	1	8/18/2023 10:27:00 PM
Surr: 4-Bromofluorobenzene	90.7	39.1-146		%Rec	1	8/18/2023 10:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	4300	150		mg/Kg	50	8/23/2023 2:41:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308A27**

25-Aug-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **MB-76948**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **76948**	RunNo: **99079**
Prep Date: **8/18/2023**	Analysis Date: **8/18/2023**	SeqNo: **3611702** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-76948**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **76948**	RunNo: **99079**
Prep Date: **8/18/2023**	Analysis Date: **8/18/2023**	SeqNo: **3611703** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	0	110	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308A27**

25-Aug-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **MB-76942** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **76942** RunNo: **99075**

Prep Date: **8/18/2023** Analysis Date: **8/18/2023** SeqNo: **3612118** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	69	147			

Sample ID: **LCS-76942** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **76942** RunNo: **99075**

Prep Date: **8/18/2023** Analysis Date: **8/18/2023** SeqNo: **3612119** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	115	61.9	130			
Surr: DNOP	5.5		5.000		110	69	147			

Sample ID: **MB-76961** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **76961** RunNo: **99104**

Prep Date: **8/21/2023** Analysis Date: **8/21/2023** SeqNo: **3612364** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		82.5	69	147			

Sample ID: **LCS-76961** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **76961** RunNo: **99104**

Prep Date: **8/21/2023** Analysis Date: **8/21/2023** SeqNo: **3612365** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.7	69	147			

Sample ID: **2308A27-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **North** Batch ID: **76942** RunNo: **99104**

Prep Date: **8/18/2023** Analysis Date: **8/21/2023** SeqNo: **3613460** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	49.75	9.116	95.7	54.2	135			
Surr: DNOP	4.6		4.975		92.3	69	147			

Sample ID: **2308A27-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **North** Batch ID: **76942** RunNo: **99104**

Prep Date: **8/18/2023** Analysis Date: **8/21/2023** SeqNo: **3613461** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.8	48.88	9.116	91.7	54.2	135	5.03	29.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308A27**

25-Aug-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **2308A27-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **North**	Batch ID: **76942**	RunNo: **99104**
Prep Date: **8/18/2023**	Analysis Date: **8/21/2023**	SeqNo: **3613461** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		4.888		94.7	69	147	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308A27**

25-Aug-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **G99068** RunNo: **99068**
Prep Date: Analysis Date: **8/18/2023** SeqNo: **3611285** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.1	70	130			
Surr: BFB	2200		1000		220	15	244			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **G99068** RunNo: **99068**
Prep Date: Analysis Date: **8/18/2023** SeqNo: **3611286** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	15	244			

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **R99068** RunNo: **99068**
Prep Date: Analysis Date: **8/18/2023** SeqNo: **3611951** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		211	15	244			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **R99068** RunNo: **99068**
Prep Date: Analysis Date: **8/18/2023** SeqNo: **3611952** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		105	15	244			

Sample ID: **2308a27-016ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS-06** Batch ID: **G99068** RunNo: **99068**
Prep Date: Analysis Date: **8/18/2023** SeqNo: **3611955** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.5	17.40	0	86.7	70	130			
Surr: BFB	1400		695.9		204	15	244			

Sample ID: **2308a27-016amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS-06** Batch ID: **G99068** RunNo: **99068**
Prep Date: Analysis Date: **8/18/2023** SeqNo: **3611956** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.5	17.40	0	85.3	70	130	1.63	20	
Surr: BFB	1400		695.9		199	15	244	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308A27**

25-Aug-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R99068**	RunNo: **99068**
Prep Date:	Analysis Date: **8/18/2023**	SeqNo: **3611283** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	70	130			
Toluene	0.90	0.050	1.000	0	89.7	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.6	70	130			
Xylenes, Total	2.7	0.10	3.000	0	91.5	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.5	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R99068**	RunNo: **99068**
Prep Date:	Analysis Date: **8/18/2023**	SeqNo: **3611284** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.5	39.1	146			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R99068**	RunNo: **99068**
Prep Date:	Analysis Date: **8/18/2023**	SeqNo: **3612051** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	70	130			
Toluene	0.91	0.050	1.000	0	91.0	70	130			
Ethylbenzene	0.93	0.050	1.000	0	92.9	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.0	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R99068**	RunNo: **99068**
Prep Date:	Analysis Date: **8/18/2023**	SeqNo: **3612052** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308A27**

25-Aug-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **2308a27-017ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SS-07**	Batch ID: **R99068**	RunNo: **99068**
Prep Date:	Analysis Date: **8/18/2023**	SeqNo: **3612064** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.020	0.7962	0	87.2	70	130			
Toluene	0.70	0.040	0.7962	0	88.4	70	130			
Ethylbenzene	0.71	0.040	0.7962	0	89.0	70	130			
Xylenes, Total	2.1	0.080	2.389	0	88.8	70	130			
Surr: 4-Bromofluorobenzene	0.74		0.7962		93.0	39.1	146			

Sample ID: **2308a27-017amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SS-07**	Batch ID: **R99068**	RunNo: **99068**
Prep Date:	Analysis Date: **8/18/2023**	SeqNo: **3612065** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.020	0.7962	0	86.8	70	130	0.431	20	
Toluene	0.69	0.040	0.7962	0	87.0	70	130	1.59	20	
Ethylbenzene	0.70	0.040	0.7962	0	87.3	70	130	1.91	20	
Xylenes, Total	2.1	0.080	2.389	0	87.2	70	130	1.86	20	
Surr: 4-Bromofluorobenzene	0.71		0.7962		89.6	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Ensolum LLC | Work Order Number: 2308A27 | RcptNo: 1

Received By: Tracy Casarrubias 8/18/2023 7:40:00 AM

Completed By: Tracy Casarrubias 8/18/2023 7:58:07 AM

Reviewed By: SAM 08/18/23

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JNS 8/18/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.0	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 24hrs

Project Name: Burton Flats 6 Inch

Project #: 08B1226307

Project Manager: Kelly Lowery

Sampler: Samantha MacKenzie

On Ice: ☑ Yes ☐ No 4091

# of Coolers: 1

Cooler Temp(including CF): 5.9+0.1 = 6.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

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Analysis Request

Date	Time	Matrix	Sample Name	Feet Depth	Container Type and #	Preservative Type	HEAL No. 2308A27	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
8/16/23	1300	Soil	North	0.5	4oz 1	Ice	001	X	X									X
8/16/23	1302	Soil	South	0.5	4oz 1	Ice	002	X	X									X
8/16/23	1304	Soil	East	0.5	4oz 1	Ice	003	X	X									X
8/16/23	1306	Soil	West	0.5	4oz 1	Ice	004	X	X									X
8/16/23	1308	Soil	STP-1	-	4oz 1	Ice	005	X	X									X
8/16/23	1310	Soil	STP-2	-	4oz 1	Ice	006	X	X									X
8/16/23	1312	Soil	FS-1	10	4oz 1	Ice	007	X	X									X
8/16/23	1314	Soil	FS-2	10	4oz 1	Ice	008	X	X									X
8/16/23	1316	Soil	FS-3	10	4oz 1	Ice	009	X	X									X
8/16/23	1318	Soil	SW-1	0-10	4oz 1	Ice	010	X	X									X
8/16/23	1320	Soil	SW-2	0-10	4oz 1	Ice	011	X	X									X
8/16/23	1322	Soil	SW-3	0-10	4oz 1	Ice	012	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/16/23	1635				8/17/23	930
8/17/23	1900			Courier	8/18/23	7:40

Remarks: Bill to: Tom Long
Email: tjlong@epord.com
Enterprise Field Services, LLC

Paykey (AFE) NonAFE: AFE1612

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24 hrs

Project Name: Burton Flats 6 Inch

Project #: 03B1226807

Project Manager: Kelly Lowery

Sampler: Samantha Mackenzie

On Ice: ☑ Yes ☐ No 4 oz

# of Coolers: 1

Cooler Temp(including CF): 5.9 +0.1 = 6.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Pg 2 of 2

Analysis Request

Date	Time	Matrix	Sample Name	Depth feet	Container Type and #	Preservative Type	HEAL No. 2308A27	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
8/16/23	1324	Soil	SW-4	0-10	4oz 1		013	X	X									X
8/16/23	1326	Soil	SW-5	0-10	4oz 1		014	X	X									X
8/16/23	1420	Soil	SS-05	0.5	4oz 1		015	X	X									X
8/16/23	1422	Soil	SS-06	0.5	4oz 1		016	X	X									X
8/16/23	1424	Soil	SS-07	0.5	4oz 1		017	X	X									X

NFE 8/16/23 Sam

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/16/23	1635					
8/17/23	1900			courier		7:40

Remarks: Bill to: Tom Long
Email: tjlong@epord.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: AFE 59612

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 08, 2023

Kelly Lowery

Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Burrow Flats 6 Inch OrderNo.: 2308F14

Dear Kelly Lowery:

Hall Environmental Analysis Laboratory received 12 sample(s) on 8/29/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: SW-4
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 8:57:00 AM
Lab ID: 2308F14-001 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/29/2023 11:44:48 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2023 11:44:48 AM
Surr: DNOP	97.0	69-147		%Rec	1	8/29/2023 11:44:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/29/2023 1:30:00 PM
Surr: BFB	101	15-244		%Rec	1	8/29/2023 1:30:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: SW-2
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 9:00:00 AM
Lab ID: 2308F14-002 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/29/2023 12:08:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2023 12:08:37 PM
Surr: DNOP	93.2	69-147		%Rec	1	8/29/2023 12:08:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	8/29/2023 1:51:00 PM
Surr: BFB	99.3	15-244		%Rec	1	8/29/2023 1:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	8/29/2023 5:33:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: FS-1
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 9:15:00 AM
Lab ID: 2308F14-003 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/29/2023 1:20:01 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2023 1:20:01 PM
Surr: DNOP	102	69-147		%Rec	1	8/29/2023 1:20:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/29/2023 2:13:00 PM
Surr: BFB	99.3	15-244		%Rec	1	8/29/2023 2:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	290	60		mg/Kg	20	8/29/2023 6:11:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: FS-2
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 9:22:00 AM
Lab ID: 2308F14-004 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	8/29/2023 1:43:48 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/29/2023 1:43:48 PM
Surr: DNOP	105	69-147		%Rec	1	8/29/2023 1:43:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	8/29/2023 2:35:00 PM
Surr: BFB	96.6	15-244		%Rec	1	8/29/2023 2:35:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: FS-4
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 11:47:00 AM
Lab ID: 2308F14-005 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	58	9.0		mg/Kg	1	8/29/2023 2:07:37 PM
Motor Oil Range Organics (MRO)	48	45		mg/Kg	1	8/29/2023 2:07:37 PM
Surr: DNOP	97.3	69-147		%Rec	1	8/29/2023 2:07:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	8/30/2023 12:10:00 PM
Surr: BFB	97.7	15-244		%Rec	1	8/30/2023 12:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.021		mg/Kg	1	8/30/2023 12:10:00 PM
Toluene	ND	0.042		mg/Kg	1	8/30/2023 12:10:00 PM
Ethylbenzene	ND	0.042		mg/Kg	1	8/30/2023 12:10:00 PM
Xylenes, Total	ND	0.084		mg/Kg	1	8/30/2023 12:10:00 PM
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	8/30/2023 12:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	250	60		mg/Kg	20	8/29/2023 6:23:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: FS-5
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 11:48:00 AM
Lab ID: 2308F14-006 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	8/29/2023 2:31:26 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/29/2023 2:31:26 PM
Surr: DNOP	96.8	69-147		%Rec	1	8/29/2023 2:31:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/29/2023 3:19:00 PM
Surr: BFB	98.8	15-244		%Rec	1	8/29/2023 3:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.019		mg/Kg	1	8/29/2023 3:19:00 PM
Toluene	ND	0.038		mg/Kg	1	8/29/2023 3:19:00 PM
Ethylbenzene	ND	0.038		mg/Kg	1	8/29/2023 3:19:00 PM
Xylenes, Total	ND	0.076		mg/Kg	1	8/29/2023 3:19:00 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	8/29/2023 3:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	65	60		mg/Kg	20	8/29/2023 7:25:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: SW-6
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 11:52:00 AM
Lab ID: 2308F14-007 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/29/2023 2:55:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2023 2:55:23 PM
Surr: DNOP	94.0	69-147		%Rec	1	8/29/2023 2:55:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/29/2023 4:02:00 PM
Surr: BFB	99.8	15-244		%Rec	1	8/29/2023 4:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.018		mg/Kg	1	8/29/2023 4:02:00 PM
Toluene	ND	0.036		mg/Kg	1	8/29/2023 4:02:00 PM
Ethylbenzene	ND	0.036		mg/Kg	1	8/29/2023 4:02:00 PM
Xylenes, Total	ND	0.072		mg/Kg	1	8/29/2023 4:02:00 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	8/29/2023 4:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	210	60		mg/Kg	20	8/29/2023 7:37:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: SW-7
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 11:46:00 AM
Lab ID: 2308F14-008 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	83	9.6		mg/Kg	1	8/29/2023 3:19:09 PM
Motor Oil Range Organics (MRO)	57	48		mg/Kg	1	8/29/2023 3:19:09 PM
Surr: DNOP	78.7	69-147		%Rec	1	8/29/2023 3:19:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	8/30/2023 12:32:00 PM
Surr: BFB	96.6	15-244		%Rec	1	8/30/2023 12:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.022		mg/Kg	1	8/30/2023 12:32:00 PM
Toluene	ND	0.044		mg/Kg	1	8/30/2023 12:32:00 PM
Ethylbenzene	ND	0.044		mg/Kg	1	8/30/2023 12:32:00 PM
Xylenes, Total	ND	0.089		mg/Kg	1	8/30/2023 12:32:00 PM
Surr: 4-Bromofluorobenzene	93.5	39.1-146		%Rec	1	8/30/2023 12:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	320	60		mg/Kg	20	8/29/2023 7:50:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: SW-8
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 11:51:00 AM
Lab ID: 2308F14-009 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/29/2023 3:42:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/29/2023 3:42:57 PM
Surr: DNOP	85.2	69-147		%Rec	1	8/29/2023 3:42:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/29/2023 4:46:00 PM
Surr: BFB	103	15-244		%Rec	1	8/29/2023 4:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.021		mg/Kg	1	8/29/2023 4:46:00 PM
Toluene	ND	0.041		mg/Kg	1	8/29/2023 4:46:00 PM
Ethylbenzene	ND	0.041		mg/Kg	1	8/29/2023 4:46:00 PM
Xylenes, Total	ND	0.082		mg/Kg	1	8/29/2023 4:46:00 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	8/29/2023 4:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	140	60		mg/Kg	20	8/29/2023 8:02:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: SW-9
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 11:49:00 AM
Lab ID: 2308F14-010 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	72	8.6		mg/Kg	1	8/29/2023 4:06:48 PM
Motor Oil Range Organics (MRO)	54	43		mg/Kg	1	8/29/2023 4:06:48 PM
Surr: DNOP	92.2	69-147		%Rec	1	8/29/2023 4:06:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	8/29/2023 5:08:00 PM
Surr: BFB	97.9	15-244		%Rec	1	8/29/2023 5:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.020		mg/Kg	1	8/29/2023 5:08:00 PM
Toluene	ND	0.040		mg/Kg	1	8/29/2023 5:08:00 PM
Ethylbenzene	ND	0.040		mg/Kg	1	8/29/2023 5:08:00 PM
Xylenes, Total	ND	0.081		mg/Kg	1	8/29/2023 5:08:00 PM
Surr: 4-Bromofluorobenzene	91.9	39.1-146		%Rec	1	8/29/2023 5:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	180	60		mg/Kg	20	8/29/2023 8:15:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: Sour L
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 9:08:00 AM
Lab ID: 2308F14-011 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/31/2023 10:40:59 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2023 10:40:59 AM
Surr: DNOP	107	69-147		%Rec	1	8/31/2023 10:40:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/29/2023 5:30:00 PM
Surr: BFB	102	15-244		%Rec	1	8/29/2023 5:30:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308F14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: STP-3
Project: Burrow Flats 6 Inch
Collection Date: 8/25/2023 12:35:00 PM
Lab ID: 2308F14-012 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	14	9.1		mg/Kg	1	8/29/2023 4:54:29 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/29/2023 4:54:29 PM
Surr: DNOP	74.9	69-147		%Rec	1	8/29/2023 4:54:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/30/2023 12:54:00 PM
Surr: BFB	102	15-244		%Rec	1	8/30/2023 12:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.023		mg/Kg	1	8/30/2023 12:54:00 PM
Toluene	ND	0.046		mg/Kg	1	8/30/2023 12:54:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	8/30/2023 12:54:00 PM
Xylenes, Total	ND	0.091		mg/Kg	1	8/30/2023 12:54:00 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	8/30/2023 12:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	170	60		mg/Kg	20	8/29/2023 8:27:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F14**

08-Sep-23

Client: Ensolum LLC

Project: Burrow Flats 6 Inch

Sample ID: **MB-77171**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **77171**	RunNo: **99340**
Prep Date: **8/29/2023**	Analysis Date: **8/29/2023**	SeqNo: **3624625** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-77171**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **77171**	RunNo: **99340**
Prep Date: **8/29/2023**	Analysis Date: **8/29/2023**	SeqNo: **3624626** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F14**

08-Sep-23

Client: Ensolum LLC

Project: Burrow Flats 6 Inch

Sample ID: **MB-77155**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77155**	RunNo: **99310**
Prep Date: **8/29/2023**	Analysis Date: **8/29/2023**	SeqNo: **3627055** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.7	69	147			

Sample ID: **LCS-77155**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77155**	RunNo: **99310**
Prep Date: **8/29/2023**	Analysis Date: **8/29/2023**	SeqNo: **3627056** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.8	61.9	130			
Surr: DNOP	4.1		5.000		81.4	69	147			

Sample ID: **2308F14-012AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **STP-3**	Batch ID: **77155**	RunNo: **99310**
Prep Date: **8/29/2023**	Analysis Date: **8/29/2023**	SeqNo: **3627071** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.3	46.51	13.87	84.7	54.2	135			
Surr: DNOP	3.6		4.651		77.3	69	147			

Sample ID: **2308F14-012AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **STP-3**	Batch ID: **77155**	RunNo: **99310**
Prep Date: **8/29/2023**	Analysis Date: **8/29/2023**	SeqNo: **3627072** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.8	49.07	13.87	80.8	54.2	135	0.435	29.2	
Surr: DNOP	3.7		4.907		76.2	69	147	0	0	

Sample ID: **MB-77236**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77236**	RunNo: **99395**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627861** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		95.6	69	147			

Sample ID: **LCS-77236**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77236**	RunNo: **99395**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627862** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F14**

08-Sep-23

Client: Ensolum LLC

Project: Burrow Flats 6 Inch

Sample ID: **LCS-77236**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77236**	RunNo: **99395**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627862** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.0	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F14**

08-Sep-23

Client: Ensolum LLC

Project: Burrow Flats 6 Inch

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS99322**	RunNo: **99322**
Prep Date:	Analysis Date: **8/29/2023**	SeqNo: **3623514** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	70	130			
Surr: BFB	2100		1000		215	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS99322**	RunNo: **99322**
Prep Date:	Analysis Date: **8/29/2023**	SeqNo: **3623516** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.5	15	244			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625421** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		220	15	244			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625422** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		98.3	15	244			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625694** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		212	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625695** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		97.8	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F14**

08-Sep-23

Client: Ensolum LLC

Project: Burrow Flats 6 Inch

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **BS99322**	RunNo: **99322**
Prep Date:	Analysis Date: **8/29/2023**	SeqNo: **3623590** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Ethylbenzene	1.0	0.050	1.000	0	103	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS99322**	RunNo: **99322**
Prep Date:	Analysis Date: **8/29/2023**	SeqNo: **3623591** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.1	39.1	146			

Sample ID: **2308F14-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW-4**	Batch ID: **BS99322**	RunNo: **99322**
Prep Date:	Analysis Date: **8/29/2023**	SeqNo: **3623604** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.98	0.10	1.000	0	97.9	70	130			
Benzene	1.0	0.025	1.000	0	105	70	130			
Toluene	1.1	0.050	1.000	0	105	70	130			
Ethylbenzene	1.1	0.050	1.000	0	107	70	130			
Xylenes, Total	3.2	0.10	3.000	0	107	70	130			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	39.1	146			

Sample ID: **2308F14-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW-4**	Batch ID: **BS99322**	RunNo: **99322**
Prep Date:	Analysis Date: **8/29/2023**	SeqNo: **3623605** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130	1.29	20	
Toluene	1.0	0.050	1.000	0	104	70	130	1.01	20	
Ethylbenzene	1.1	0.050	1.000	0	106	70	130	0.491	20	
Xylenes, Total	3.2	0.10	3.000	0	107	70	130	0.193	20	
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F14**

08-Sep-23

Client: Ensolum LLC

Project: Burrow Flats 6 Inch

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625434** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	70	130			
Toluene	0.95	0.050	1.000	0	95.2	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.2	70	130			
Xylenes, Total	2.9	0.10	3.000	0	97.2	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.5	39.1	146			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625436** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	39.1	146			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625736** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	70	130			
Toluene	0.97	0.050	1.000	0	96.5	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.6	70	130			
Xylenes, Total	2.9	0.10	3.000	0	97.9	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R99356**	RunNo: **99356**
Prep Date:	Analysis Date: **8/30/2023**	SeqNo: **3625737** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.5	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Ensolum LLC | Work Order Number: 2308F14 | RcptNo: 1

Received By: Tracy Casarrubias 8/29/2023 7:55:00 AM

Completed By: Tracy Casarrubias 8/29/2023 8:11:12 AM

Reviewed By: JA 8-29-23

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JA 8/29/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24 hours

Project Name: Burton Flats 6 Incl

Project #: 03B1226307

Project Manager: Kelly Lowery

Sampler:
On Ice: ☑ Yes ☐ No 4091

# of Coolers: 1

Cooler Temp (Including CF): 0.1-0.1 = 0.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Depth	Container Type and #	Preservative Type	HEAL No. 2308F14	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride 300.0
8-25-23	857	S	SW-4	0-10	4oz	Ice	001		X									
8-25-23	900	S	SW-2	0-10	4 oz	Ice	002		X									X
8-25-23	915	S	FS-1	11.5	4 oz	Ice	003		X									X
8-25-23	922	S	FS-2	11.5	4 oz	Ice	004		X									
8-25-23	1147	S	FS-4	11.5	4 oz	Ice	005	X	X									X
8-25-23	1148	S	FS-5	11.5	4 oz	Ice	006	X	X									X
8-25-23	1152	S	SW-6	0-10	4 oz	Ice	007	X	X									X
8-25-23	1146	S	SW-7	0-10	4 oz	Ice	008	X	X									X
8-25-23	1151	S	SW-8	0-10	4 oz	Ice	009	X	X									X
8-25-23	1149	S	SW-9	0-10	4 oz	Ice	010	X	X									X
8-25-23	908	S	SouthL	0-.5	4 oz	Ice	011		X									
8-25-23	1235	S	STP-3	—	4 oz	Ice	012	X	X									X

Date	Time	Relinquished by	Received by	Via	Date	Time
8/25	22:30	Kaori Shimada			8/28/23	930
8/28/23	1900			courier	8/29/23	7:55

Remarks: Bill to: Tom Long
Email: tjlong@epord.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: AFE 459612

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 18, 2023

Kelly Lowery

Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Burton Flats 6 Inch OrderNo.: 2309559

Dear Kelly Lowery:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/13/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2309559**
Date Reported: **9/18/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** North-2
Project: Burton Flats 6 Inch **Collection Date:** 9/11/2023 9:30:00 AM
Lab ID: 2309559-001 **Matrix:** MEOH (SOIL) **Received Date:** 9/13/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/13/2023 12:33:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/13/2023 12:33:28 PM
Surr: DNOP	86.8	69-147		%Rec	1	9/13/2023 12:33:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	9/13/2023 2:21:00 PM
Surr: BFB	97.8	15-244		%Rec	1	9/13/2023 2:21:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2309559**
Date Reported: **9/18/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** FS-4
Project: Burton Flats 6 Inch **Collection Date:** 9/11/2023 9:35:00 AM
Lab ID: 2309559-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/13/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/13/2023 12:44:16 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/13/2023 12:44:16 PM
Surr: DNOP	104	69-147		%Rec	1	9/13/2023 12:44:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/13/2023 3:05:00 PM
Surr: BFB	95.4	15-244		%Rec	1	9/13/2023 3:05:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2309559**
Date Reported: **9/18/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SW-7
Project: Burton Flats 6 Inch **Collection Date:** 9/11/2023 11:00:00 AM
Lab ID: 2309559-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/13/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/13/2023 12:55:02 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/13/2023 12:55:02 PM
Surr: DNOP	92.9	69-147		%Rec	1	9/13/2023 12:55:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/13/2023 3:27:00 PM
Surr: BFB	99.1	15-244		%Rec	1	9/13/2023 3:27:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2309559**
Date Reported: **9/18/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SW-9
Project: Burton Flats 6 Inch **Collection Date:** 9/11/2023 11:05:00 AM
Lab ID: 2309559-004 **Matrix:** MEOH (SOIL) **Received Date:** 9/13/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/13/2023 1:05:50 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/13/2023 1:05:50 PM
Surr: DNOP	100	69-147		%Rec	1	9/13/2023 1:05:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/13/2023 3:49:00 PM
Surr: BFB	102	15-244		%Rec	1	9/13/2023 3:49:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309559**

18-Sep-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **2309559-004AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **SW-9** Batch ID: **77475** RunNo: **99659**

Prep Date: **9/13/2023** Analysis Date: **9/13/2023** SeqNo: **3641020** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.6	47.94	0	98.2	54.2	135			
Surr: DNOP	4.7		4.794		98.9	69	147			

Sample ID: **LCS-77475** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **77475** RunNo: **99659**

Prep Date: **9/13/2023** Analysis Date: **9/13/2023** SeqNo: **3641036** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	61.9	130			
Surr: DNOP	4.7		5.000		95.0	69	147			

Sample ID: **MB-77475** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **77475** RunNo: **99659**

Prep Date: **9/13/2023** Analysis Date: **9/13/2023** SeqNo: **3641040** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	69	147			

Sample ID: **2309559-004AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **SW-9** Batch ID: **77475** RunNo: **99659**

Prep Date: **9/13/2023** Analysis Date: **9/13/2023** SeqNo: **3641449** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.31	0	97.6	54.2	135	0.198	29.2	
Surr: DNOP	4.7		4.831		96.4	69	147	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309559**

18-Sep-23

Client: Ensolum LLC

Project: Burton Flats 6 Inch

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G99658**	RunNo: **99658**							
Prep Date:	Analysis Date: **9/13/2023**	SeqNo: **3641041**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	70	130			
Surr: BFB	2200		1000		219	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G99658**	RunNo: **99658**							
Prep Date:	Analysis Date: **9/13/2023**	SeqNo: **3641042**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Ensolum LLC | Work Order Number: 2309559 | RcptNo: 1

Received By: Tracy Casarrubias 9/12/2023 12:00:00 PM

Completed By: Tracy Casarrubias 9/13/2023 8:18:45 AM

Reviewed By: JH 9-13-23

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JH 9/13/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☑ Rush 24 hrs

Project Name: Buxton Flats 6 inch

Project #: 038122307

Project Manager: Kelly Lowery

Sampler: Sam / NKD

On Ice: ☑ Yes ☐ No 4091

# of Coolers: 1

Cooler Temp(including CF): 4.9+0.1=5.0°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Feet Depth	Container Type and #	Preservative Type	HEAL No. 2309559	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/11/23	0930	Soil	North-2	0.5	4oz 1	Ice	001		X								
9/11/23	0935	Soil	FS-4	11.5	4oz 1	Ice	002		X								
9/11/23	1100	Soil	SW-7	0-10	4oz 1	Ice	003		X								
9/11/23	1105	Soil	SW-9	0-10	4oz 1	Ice	004		X								

NFE

9/11/23

Sam

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/12/23	945				9/12/23	945
9/12/23	1900			Courier	9/13/23	7:45

Remarks: Bill to: Tom Long
Email: tjlong@epord.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: 59612

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 279151

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 279151
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/28/2023