



April 15, 2022

New Mexico Oil Conservation Division

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

**Re: Closure Request
Fez Carnival NexGen Line
Incident Number NAPP2321440405
Ensolum Project Number 03B2359002
Lea County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of Solaris Water, LLC (Solaris), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities performed at the Fez Carnival NexGen Line (Site) in accordance with previously approved *Remediation Work Plan (Work Plan)*. The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, Solaris is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2321440405.

SITE DESCRIPTION AND BACKGROUND

The Site is located in Unit I, Section 04, Township 25 South, Range 35 East, in Lea County, New Mexico (32.157425°, -103.364361°) and is associated with oil and gas exploration and production operations on private land.

On August 3, 2023, approximately 480 barrels (bbls) of produced water were released from a 16-inch lay flat line into Antelope Draw, no fluids were recovered. Produced water flowed approximately 3,400 feet to the southeast within Antelope Draw before terminating. The release impacted an area of approximately 40,188 square feet. The spill was confined to Antelope Draw excluding an area near the source where the release flowed west across a lease road. A site map indicating the overall area of the release is included as **Attachment A**. Solaris reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on August 7, 2023. The release was assigned Incident Number NAPP2321440405.

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review were discussed in detail in the approved *Work Plan*. Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO): 100 mg/kg
- Approved naturally occurring chloride: 2,500 mg/kg

Solaris Water, LLC
Closure Request
Fez Carnival NexGen Line



In August of 2023 Ensolum personnel oversaw delineation via hand auger and Geoprobe®. Delineation data and results were presented in a *Remediation Work Plan* submitted to the NMOCD on November 2, 2023. The *Remediation Work Plan* was reviewed and approved on February 21, 2024.

CONFIRMATION SOIL SAMPLING ACTIVITIES

Following approval of the *Remediation Work Plan*, on March 15, 2024, Ensolum personnel returned to site to collect confirmation soil samples. Eighty one 5-point composite soil samples were collected at least every 500 square feet from 0.5 feet below ground surface (bgs). The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.

Upon completion of confirmation sampling activities, impacted soil was excavated from the release area, FS-3 through FS-5, as indicated by visible staining, laboratory analytical results for the confirmation soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using hydrovac and trachoe. The excavation occurred off the road in the northwest corner of the release. The excavation was completed to a depth of 4 feet bgs.

On August 8, 2023, Ensolum returned to site to recollect a total of 6 floor soil samples and 2 sidewall soil samples. Soil samples FS-3, FS-4, and FS-5 were collected to a depth of 5 feet bgs from the excavation and soil samples SW-01 and SW-02 were collected from the sidewalls at a depth of 0 to 5 feet bgs. Soil samples FS-9, FS-16, and FS-28 were collected down to a depth of 0.5 feet bgs.

It was determined that background sampling utilizing a Geoprobe® was required due to the possibility of high levels of chloride present in the area. The NMOCD states that background samples be obtained by grab, not composite, in areas no closer than 50 feet and no farther than 100 feet outside of the lateral and horizontal extents of the release's impact area. The background samples must also be representative of the entirety of the release per NMAC 19.15.29 Releases. Soil boring logs are included in **Attachment B**.

Based on analytical results, it was determined that the concentrations of naturally occurring chloride present in the surrounding soil, no closer than 50 and no farther than 100 feet from the Site, ranged from 117 milligrams per killogram (mg/kg) to 5,720 mg/kg with a 95% Upper Confidence Limit (UCL) of 2,611 mg/kg and a 95% Upper Tolerance Limit (UTL) of 6,742 mg/kg. Based on correspondence with the NMOCD, an approved closure criteria value of 2,500 mg/kg was utilized as the new Closure Criteria for chlorides per the NMAC Rule 19.15.29. Closure Criteria calculations are included in **Table 1** and **Table 2** in **Attachment C** and supporting documentation in **Attachment D**.

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

Laboratory analytical results for all soil samples collected around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and reclamation standards, and successfully defined the lateral extent of the release.

Solaris Water, LLC
Closure Request
Fez Carnival NexGen Line



LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation sidewall samples SW-01 and SW-02 and excavation floor samples FS-3 through FS-5 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards. Laboratory analytical results are summarized in **Table 1** and **Table 2** in **Attachment C** and laboratory analytical reports are included as **Attachment E**.

Laboratory analytical results for confirmation samples FS-1 through FS-81 indicated that benzene, BTEX, TPH-GRO/DRO/MRO, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards. Laboratory analytical results are summarized in **Table 1** and **Table 2** in **Attachment C** and laboratory analytical reports are included as **Attachment E**.

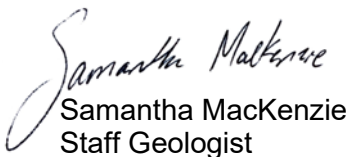
CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 3, 2023, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/DRO/MRO, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Solaris has backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be between 50-100 feet bgs. Solaris believes these remedial actions are protective of human health, the environment, and groundwater. As such, Solaris respectfully requests closure for Incident Number NAPP2321440405.

If you should have any questions or comments regarding this Closure Request, please contact either of the undersigned.

Sincerely,
Ensolum, LLC



Samantha MacKenzie
Staff Geologist



Beaux Jennings
Associate Principal

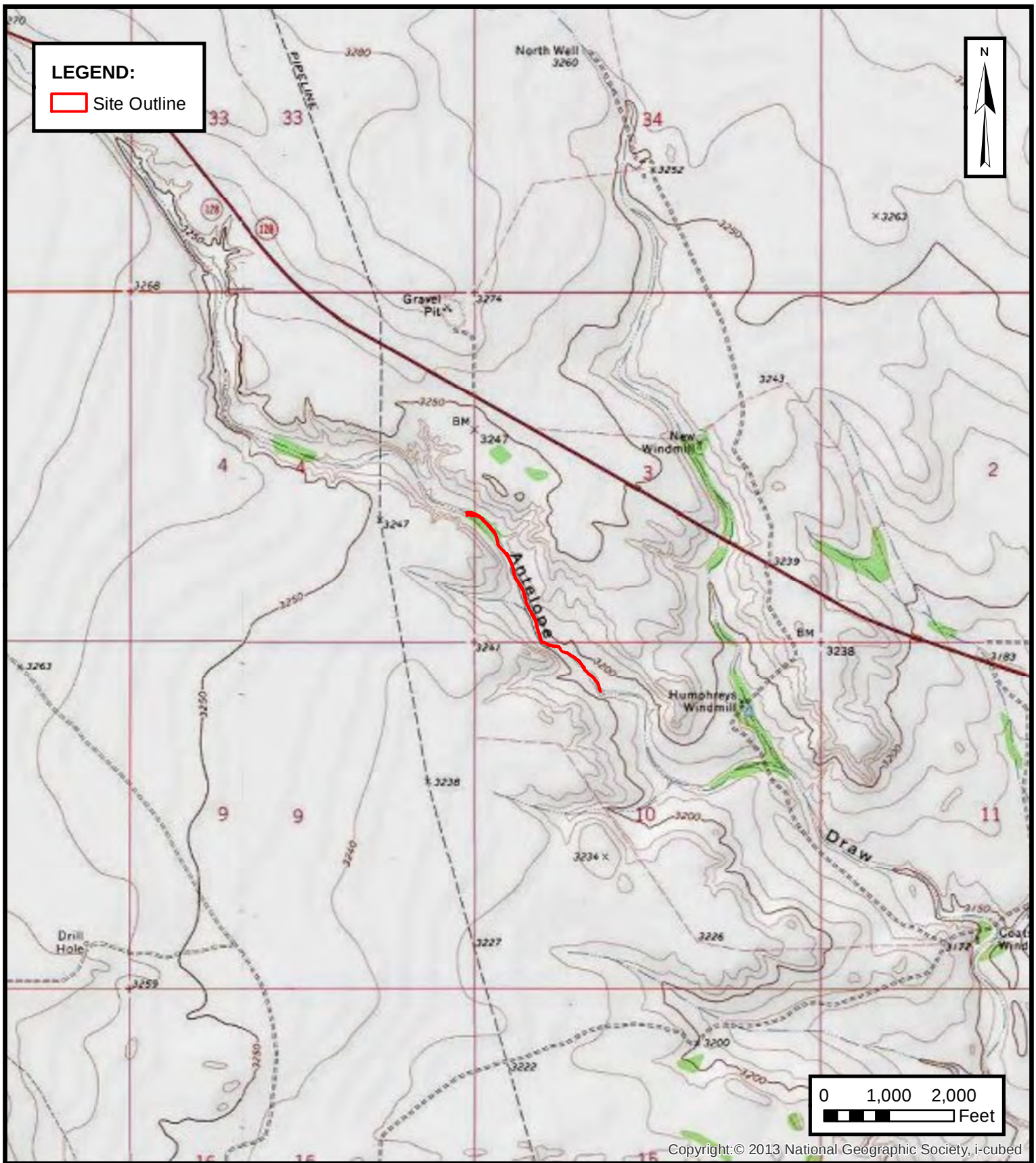
Attachments:

- Attachment A** – Figures
- Attachment B** – Soil Boring Logs
- Attachment C** – Tables
- Attachment D** – Supporting Documentation
- Attachment E** – Laboratory Report & Chain-of-Custody Documentation
- Attachment F** – C-141
- Attachment G** – Referenced Well Records
- Attachment H** – Photographic Log



ATTACHMENT A

Figures

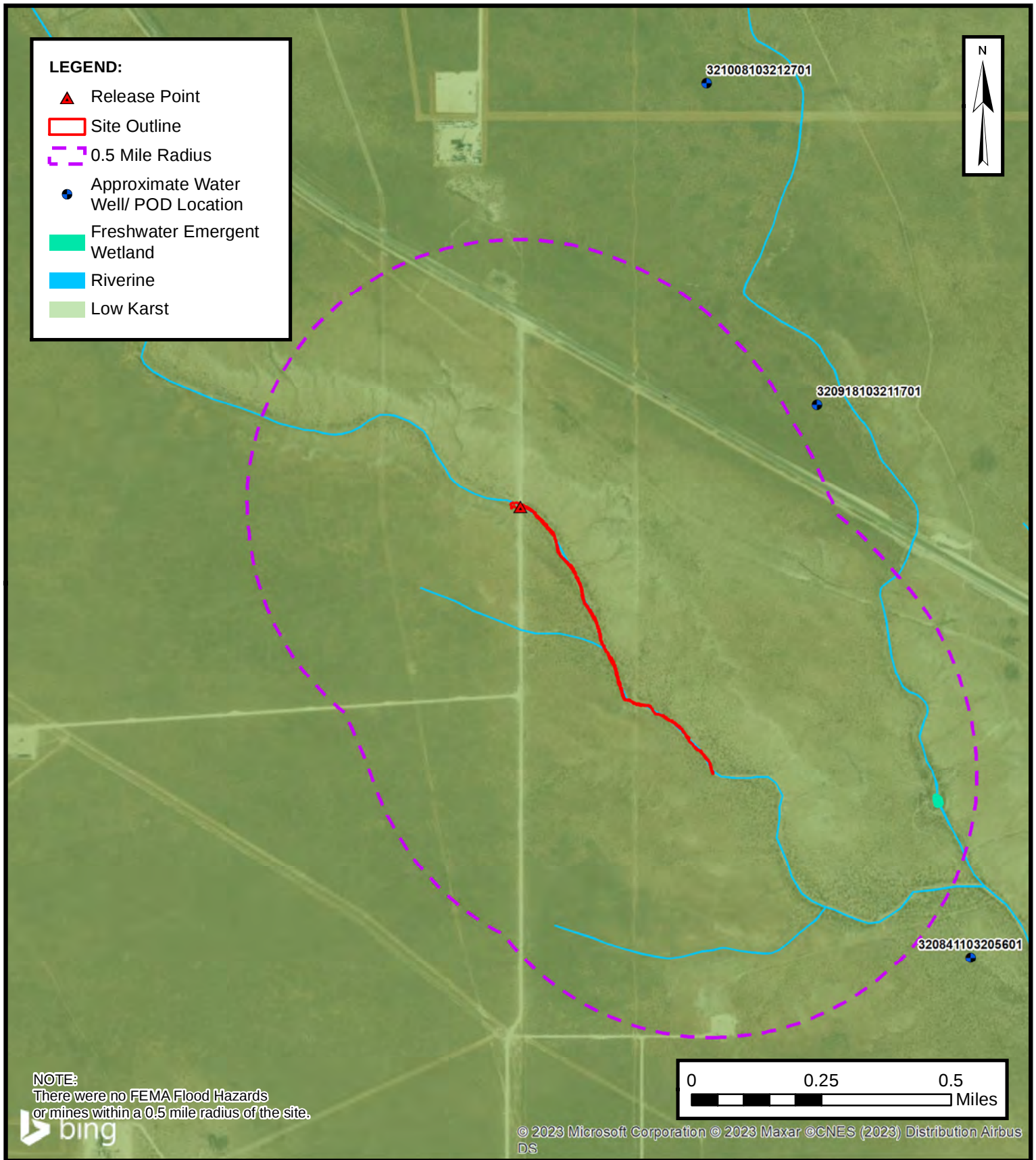


TOPOGRAPHIC MAP

SOLARIS WATER, LLC
 Fez Carnival NexGen Line
 Lea County, New Mexico
 32.157425° N, 103.364361° W

PROJECT NUMBER: 03B2359002

FIGURE
1

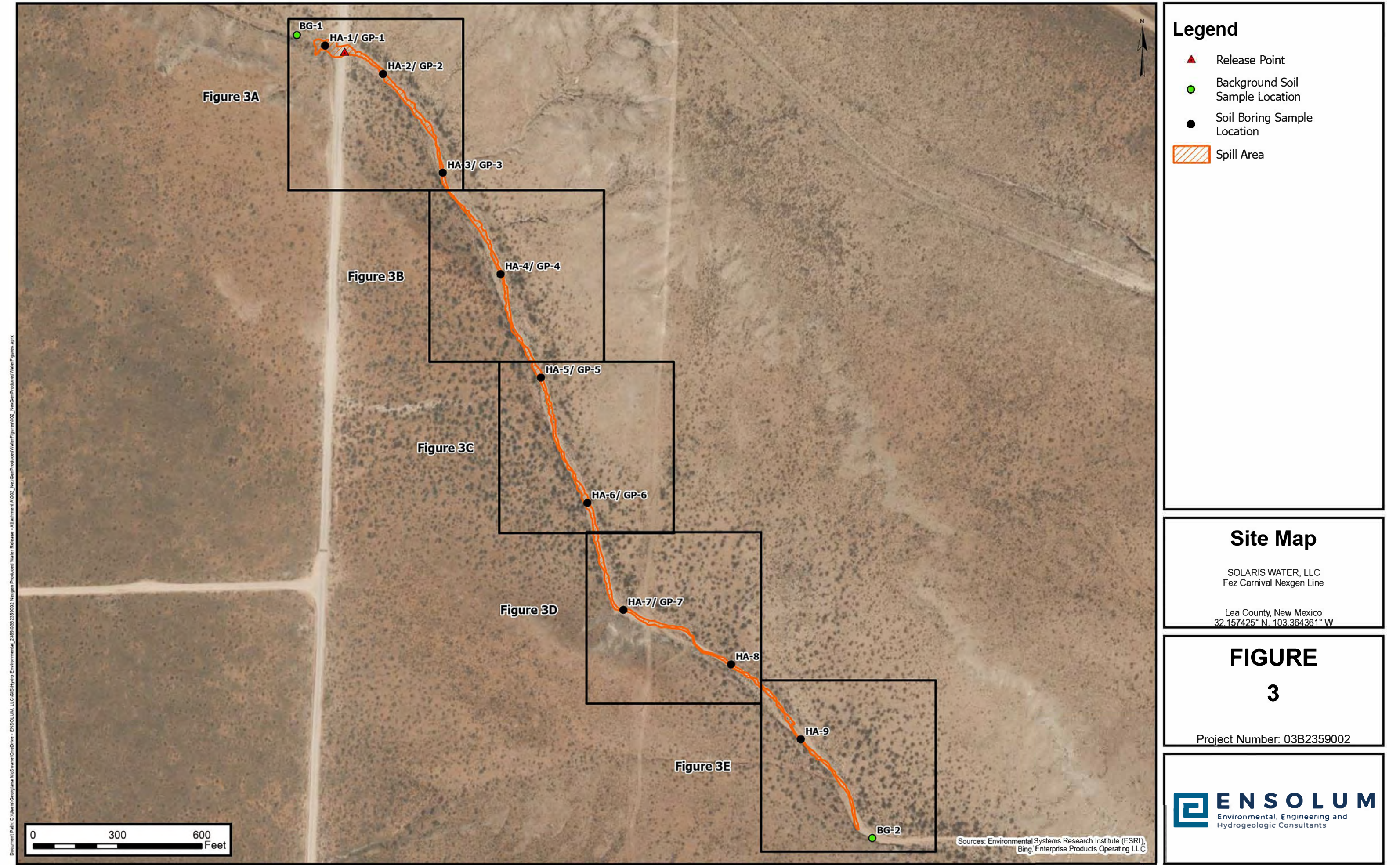


CLOSURE CRITERIA MAP

SOLARIS WATER, LLC
Fez Carnival NexGen Line
Lea County, New Mexico
32.157425° N, 103.364361° W

PROJECT NUMBER: 03B2359002

**FIGURE
2**





Legend

- ▲ Release Point
- Background Soil Sample Location
- Soil Boring Sample Location
- ▲ Composite Sidewall Location
- ▨ Excavation Extent
- ▨ Spill Area
- ▭ Composite Soil Sample Grid Boundary

Site Map A

SOLARIS WATER, LLC
Fez Carnival Nexgen Line

Lea County, New Mexico
32.157425° N, 103.364361° W

FIGURE 3A

Project Number: 03B2359002



Sources: Environmental Systems Research Institute (ESRI),
Bing, Enterprise Products Operating LLC

Document Path: C:\Users\Georgiana.McSivane\OneDrive - ENSOLIM, LLC\GIS\Hydro-Environmental\3359\03B2359002 Nexgen Product Water Release - Attachment A002_NexGenProducedWaterFigures.aprx



Legend

- Soil Boring Sample Location
- ▨ Spill Area
- ▭ Composite Soil Sample Grid Boundary

Site Map B

SOLARIS WATER, LLC
Fez Carnival Nexgen Line

Lea County, New Mexico
32.157425° N, 103.364361° W

FIGURE
3B

Project Number: 03B2359002



Sources: Environmental Systems Research Institute (ESRI),
Bing, Enterprise Products Operating LLC

Document Path: C:\Users\Georgiana.McSwane\OneDrive - ENSOLIM, LLC\GIS\Hydro-Environmental\03B2359002 Nexgen Products Water Release - Attachment A002_NexGenProducedWaterFigures.aprx



Legend

- Soil Boring Sample Location
-  Spill Area
-  Composite Soil Sample Grid Boundary

Site Map C

SOLARIS WATER, LLC
Fez Carnival Nexgen Line

Lea County, New Mexico
32.157425° N, 103.364361° W

FIGURE 3C

Project Number: 03B2359002



Environmental, Engineering and Hydrogeologic Consultants

Sources: Environmental Systems Research Institute (ESRI), Bing, Enterprise Products Operating LLC

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Legend

- Soil Boring Sample Location
-  Spill Area
-  Composite Soil Sample Grid Boundary

Site Map D

SOLARIS WATER, LLC
Fez Carnival Nexgen Line

Lea County, New Mexico
32.157425° N, 103.364361° W

FIGURE 3D

Project Number: 03B2359002



Environmental, Engineering and Hydrogeologic Consultants

Sources: Environmental Systems Research Institute (ESRI), Bing, Enterprise Products Operating LLC



Legend

- Background Soil Sample Location
- Soil Boring Sample Location
- ▨ Spill Area
- ▭ Composite Soil Sample Grid Boundary

Site Map E

SOLARIS WATER, LLC
Fez Carnival Nexgen Line

Lea County, New Mexico
32.157425° N, 103.364361° W

FIGURE 3E

Project Number: 03B2359002



Environmental, Engineering and Hydrogeologic Consultants



ATTACHMENT B

Soil Boring Logs

Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/17/2023
Date Completed: 08/17/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: BG-1
Project #: 03B2359002
Drawn By: Kaoru Shimada
Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 12'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD	SAMPLER TYPE	GROUNDWATER DEPTH
HSA - HOLLOW STEM AUGERS	CB - FIVE FOOT CORE BARREL	▽ AT COMPLETION
CFA - CONTINUOUS FLIGHT AUGERS	SS - DRIVEN SPLIT SPOON	▽ AT WELL STABILIZATION
GP - GEOPROBE	ST - PRESSED SHELBY TUBE	
AR - AIR ROTARY		

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES
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Drill Cuttings:

0'-12" - Silty sand, light brown, slightly moist, no odor

12' - Total Depth

NR - No Recovery

Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/17/2023
Date Completed: 08/17/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: BG-2
Project #: 03B2359002
Drawn By: Kaoru Shimada
Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 4'
Well Materials: N/A
Surface Completion: N/A

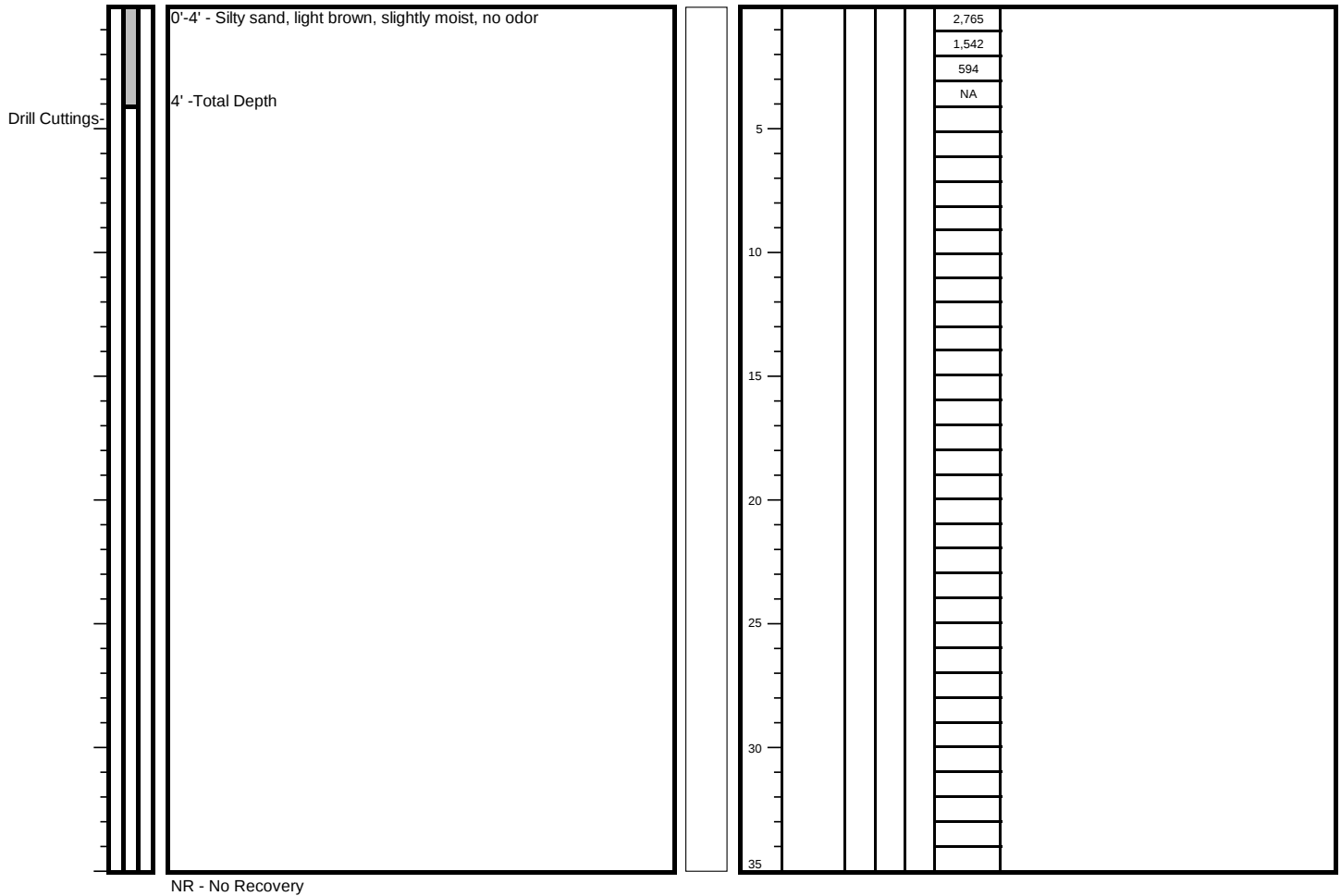
BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
▽ AT COMPLETION
▽ AT WELL STABILIZATION

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES
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Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/11/2023
Date Completed: 08/11/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: HA-1
Project #: 03B2359002
Drawn By: Kaoru Shimada
Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 10'
Well Materials: N/A
Surface Completion: N/A

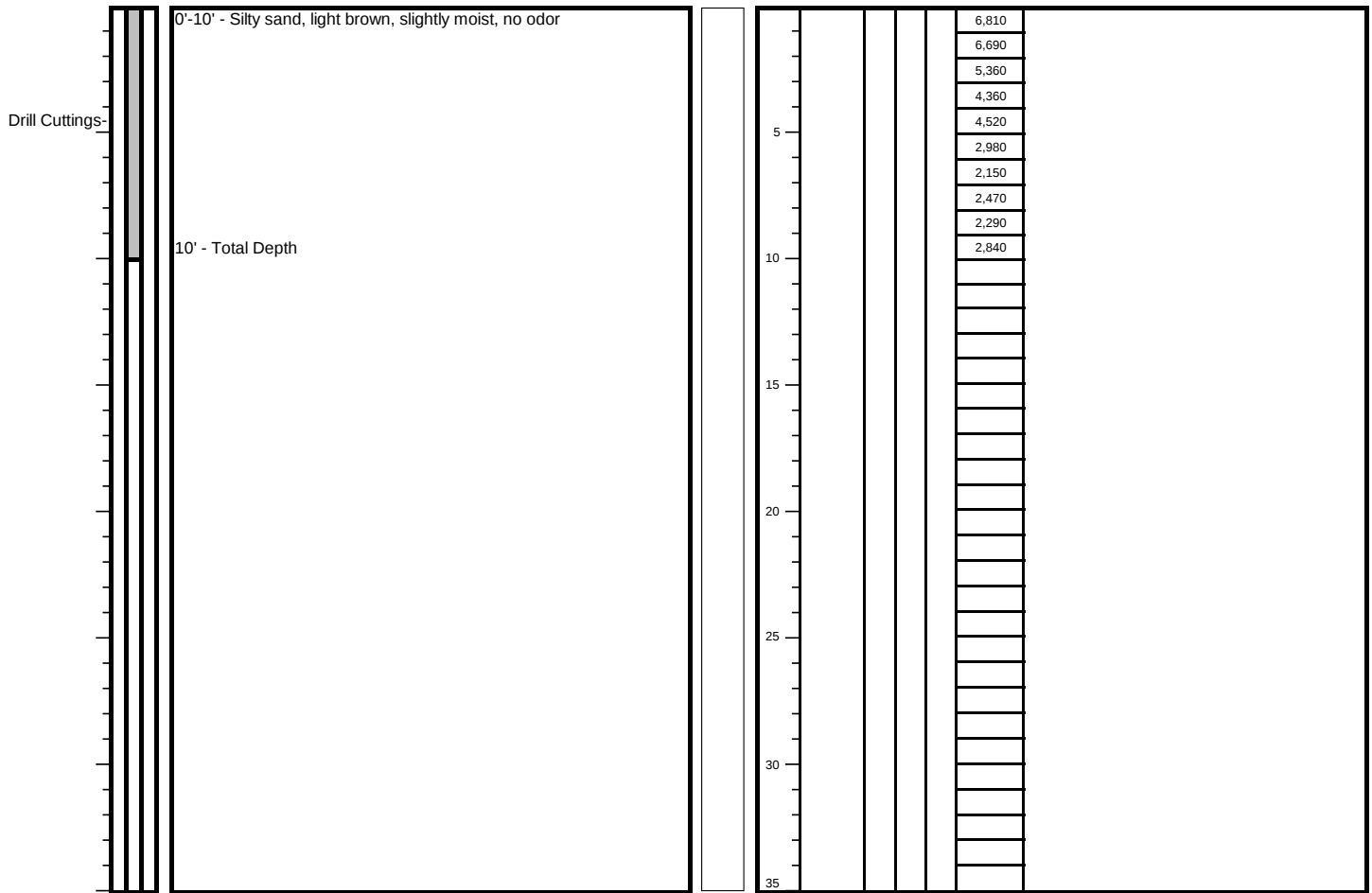
BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
▽ AT COMPLETION
▽ AT WELL STABILIZATION

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES
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Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/11/2023
Date Completed: 08/11/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: HA-6

Project #: 03B2359002

Drawn By: Kaoru Shimada

Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 2'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD

HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE

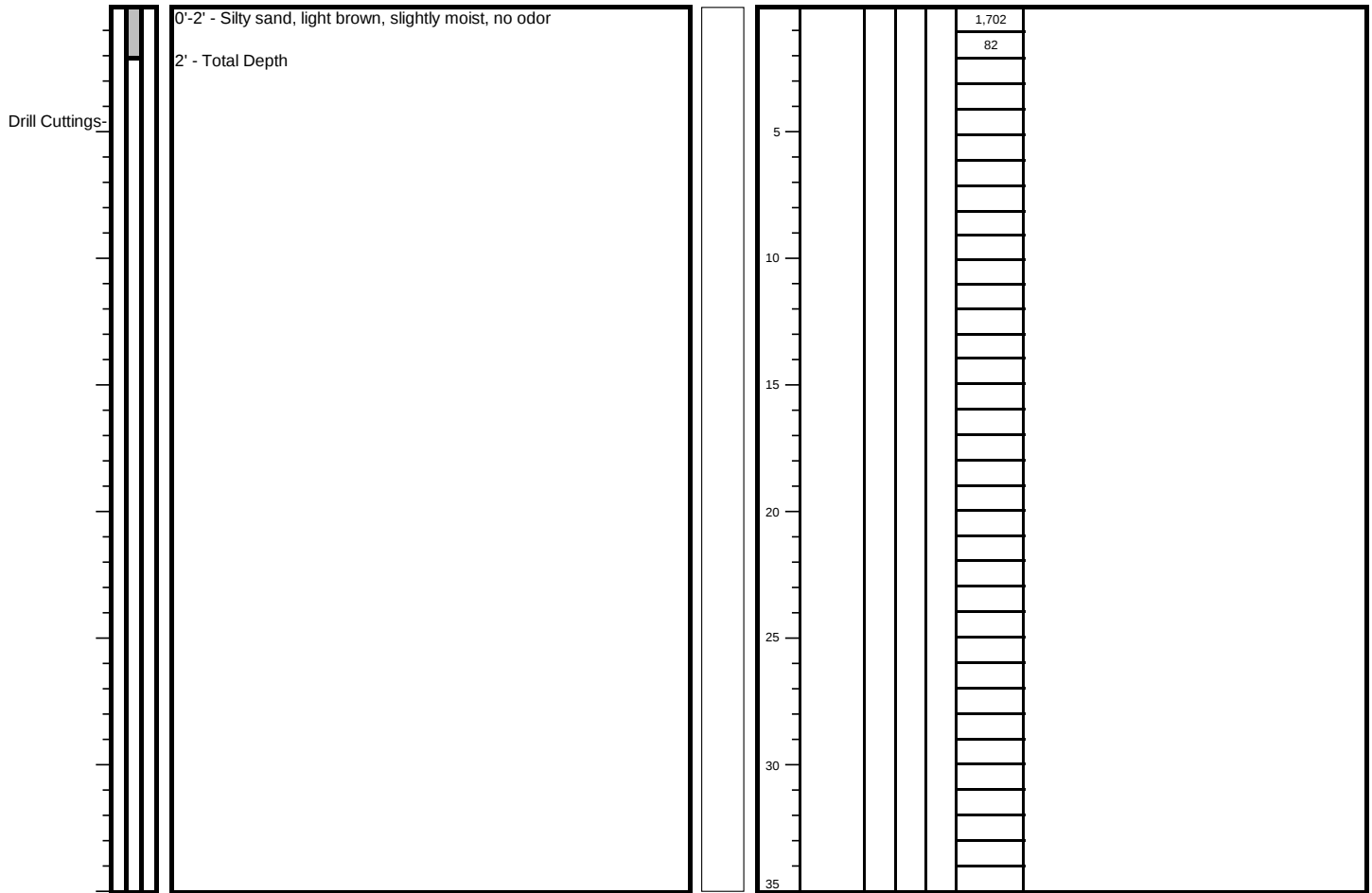
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH

▽ AT COMPLETION
▽ AT WELL STABILIZATION

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES



NR - No Recovery

Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/11/2023
Date Completed: 08/11/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: HA-7

Project #: 03B2359002

Drawn By: Kaoru Shimada

Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 2'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD

HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE

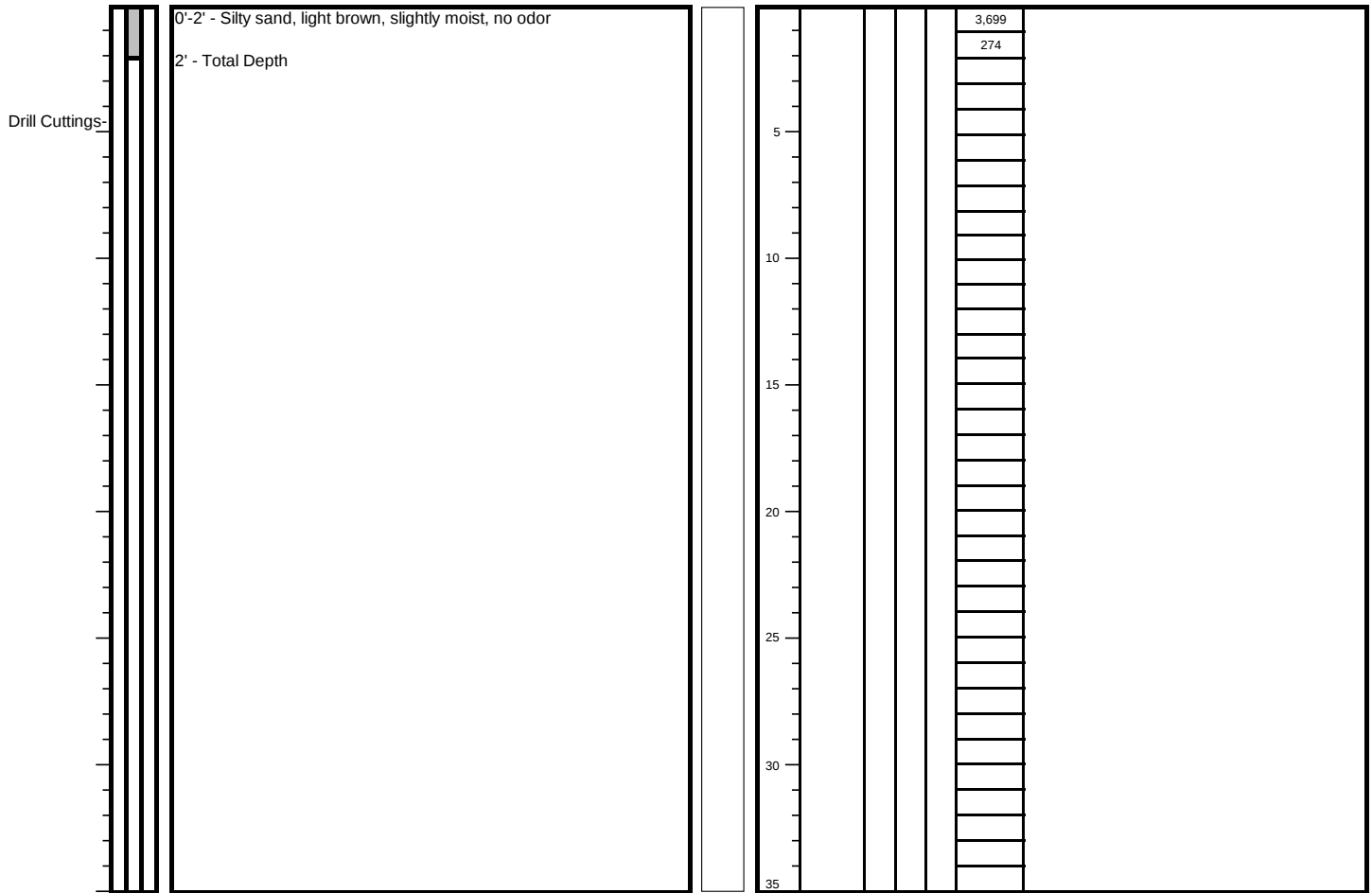
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH

▽ AT COMPLETION
▽ AT WELL STABILIZATION

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES



Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/11/2023
Date Completed: 08/17/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: HA-8

Project #: 03B2359002

Drawn By: Kaoru Shimada

Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 5'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD

HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE

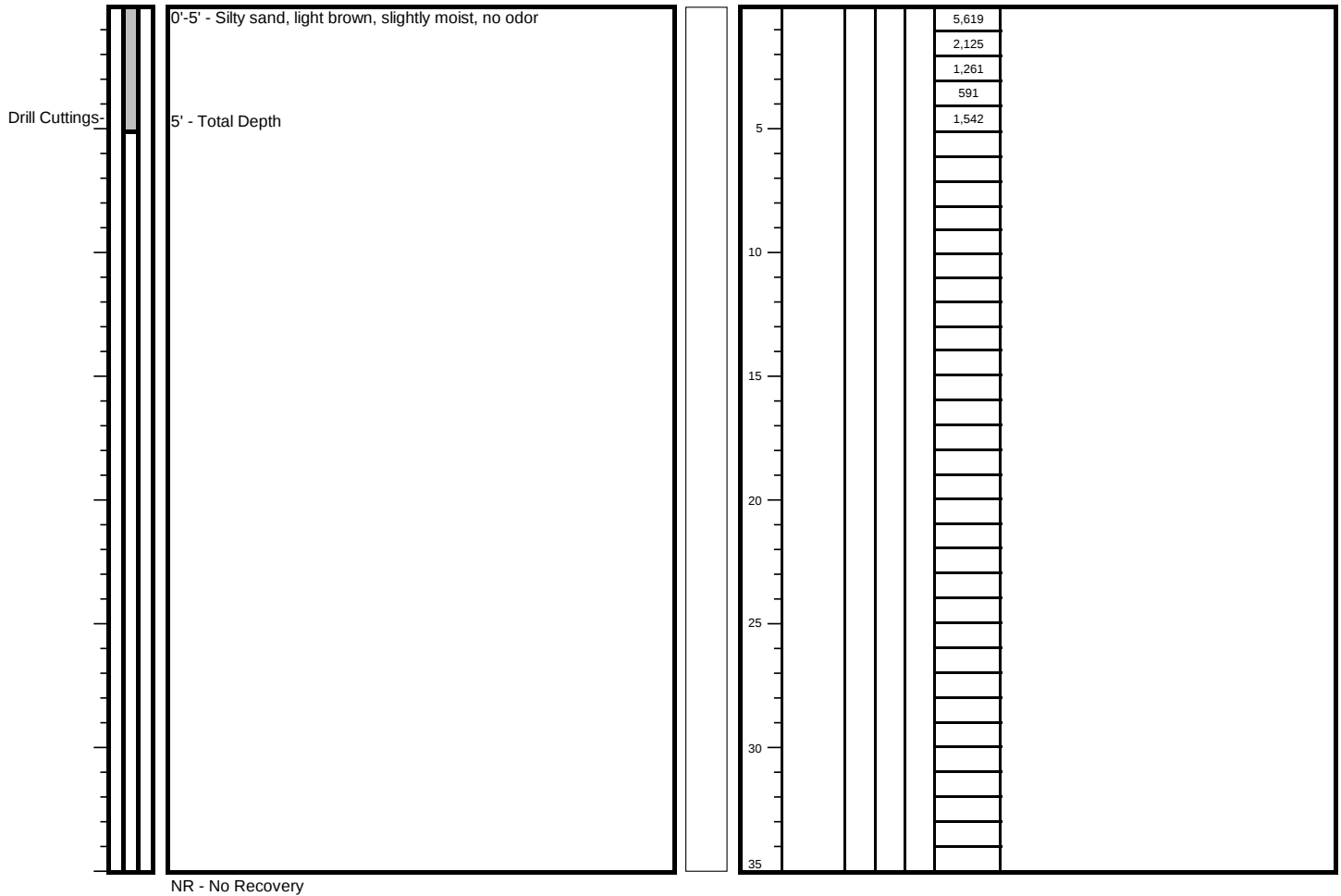
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH

▽ AT COMPLETION
▽ AT WELL STABILIZATION

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES
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Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/11/2023
Date Completed: 08/17/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: HA-9

Project #: 03B2359002

Drawn By: Kaoru Shimada

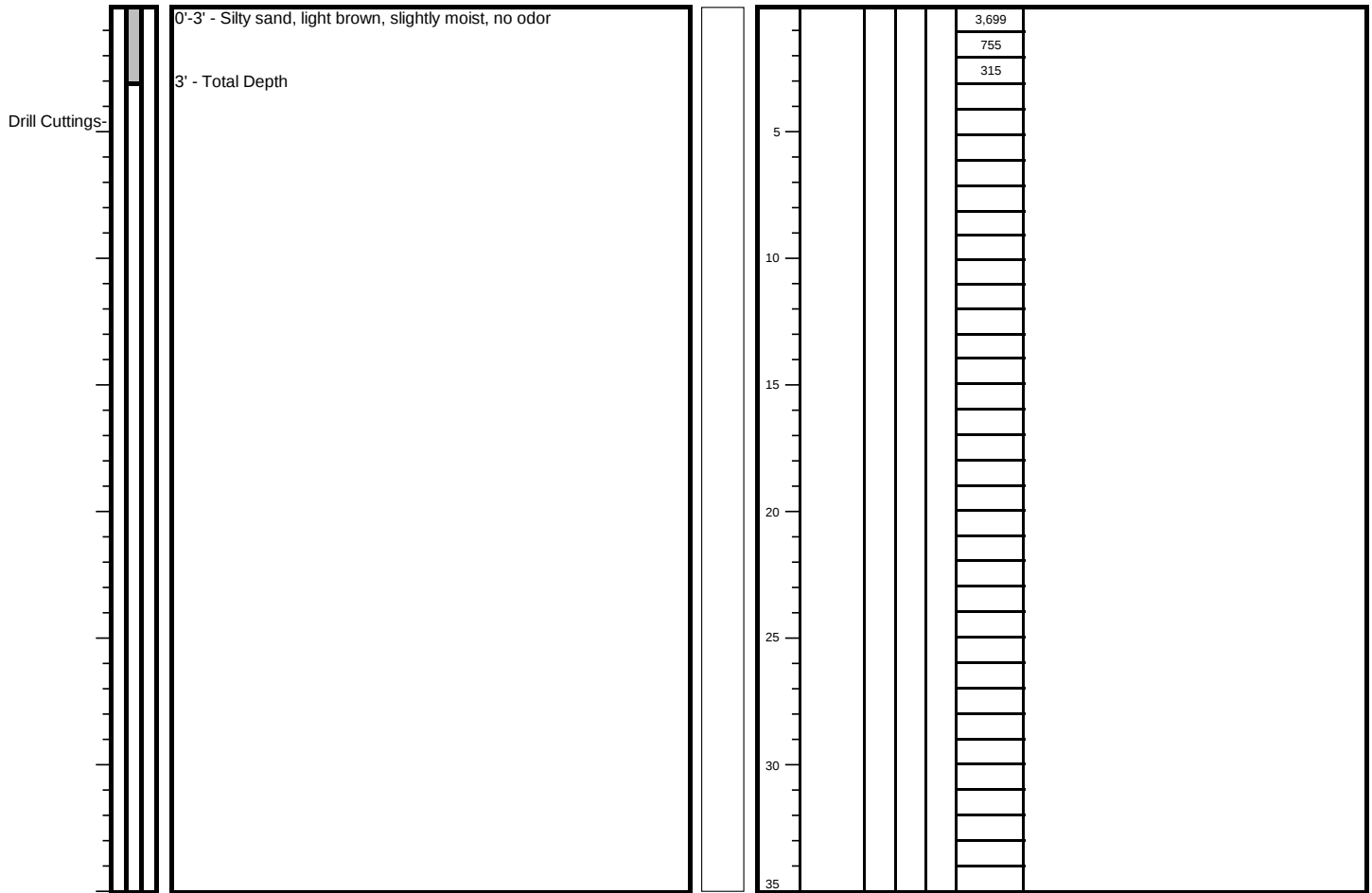
Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 3'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD **SAMPLER TYPE** **GROUNDWATER DEPTH**
HSA - HOLLOW STEM AUGERS CB - FIVE FOOT CORE BARREL ▽ AT COMPLETION
CFA - CONTINUOUS FLIGHT AUGERS SS - DRIVEN SPLIT SPOON ▽ AT WELL STABILIZATION
GP - GEOPROBE ST - PRESSED SHELBY TUBE
AR - AIR ROTARY

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES
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SOIL BORING / WELL LOG

Soil Boring / Well Number: GP-1

Project #: 03B2359002
 Drawn By: Kaoru Shimada
 Approved By: Beaux Jennings

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater	Electrical Cor



Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG**DRILLING & SAMPLING INFORMATION**

Date Started: 08/15/2023
Date Completed: 08/15/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: GP-2
Project #: 03B2359002
Drawn By: Kaoru Shimada
Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 14'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD	SAMPLER TYPE	GROUNDWATER DEPTH
HSA - HOLLOW STEM AUGERS	CB - FIVE FOOT CORE BARREL	▽ AT COMPLETION
CFA - CONTINUOUS FLIGHT AUGERS	SS - DRIVEN SPLIT SPOON	▽ AT WELL STABILIZATION
GP - GEOPROBE	ST - PRESSED SHELBY TUBE	
AR - AIR ROTARY		

**BORING AND
SAMPLING NOTES**

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	
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Drill Cuttings:

0'-14' - Silty sand, light brown, slightly moist, no odor

14' -Total Depth

NR - No Recovery

Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/15/2023
Date Completed: 08/15/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: GP-3

Project #: 03B2359002

Drawn By: Kaoru Shimada

Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 8'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD

HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE

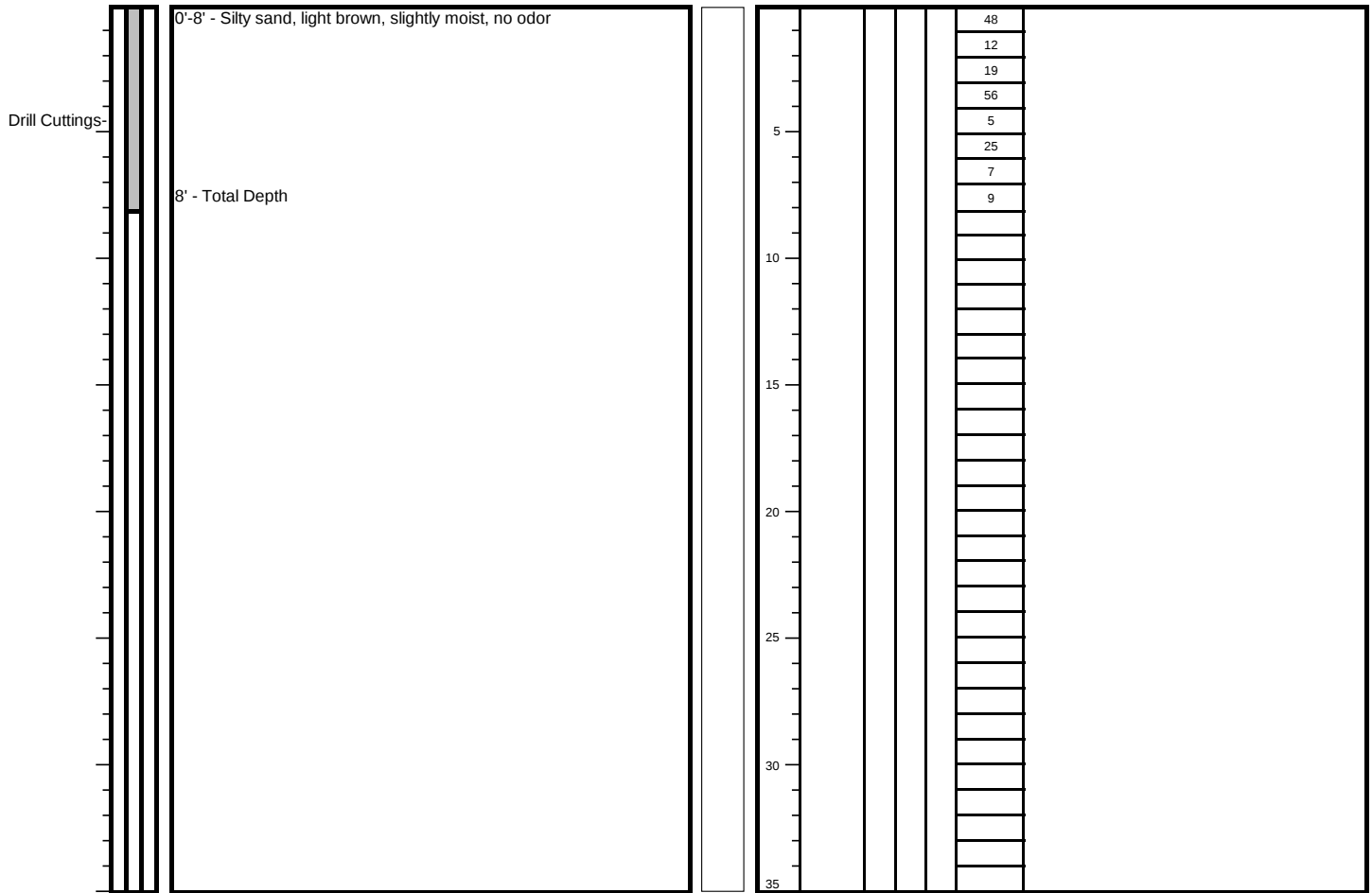
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH

▽ AT COMPLETION
▽ AT WELL STABILIZATION

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES
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Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/15/2023

Date Completed: 08/15/2023

Drilling Company: Lighthouse Environmental Services, Inc.

Driller: Luis Ramirez

Geologist: Leah Nunez

Boring Method: GP

Sampler Type: CB

Bore Hole Diameter: 2.5"

Casing Diameter: N/A

Well Materials: N/A

Surface Completion: N/A

Soil Boring / Well Number: GP-4

Project #: 03B2359002

Drawn By: Kaoru Shimada

Approved By: Beaux Jennings

Sampler: Leah Nunez

Logged By: Leah Nunez

Screen: N/A

Total Depth: 9'

BORING METHOD

HSA - HOLLOW STEM AUGERS

CFA - CONTINUOUS FLIGHT AUGERS

GP - GEOPROBE

AR - AIR ROTARY

SAMPLER TYPE

CB - FIVE FOOT CORE BARREL

SS - DRIVEN SPLIT SPOON

ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH

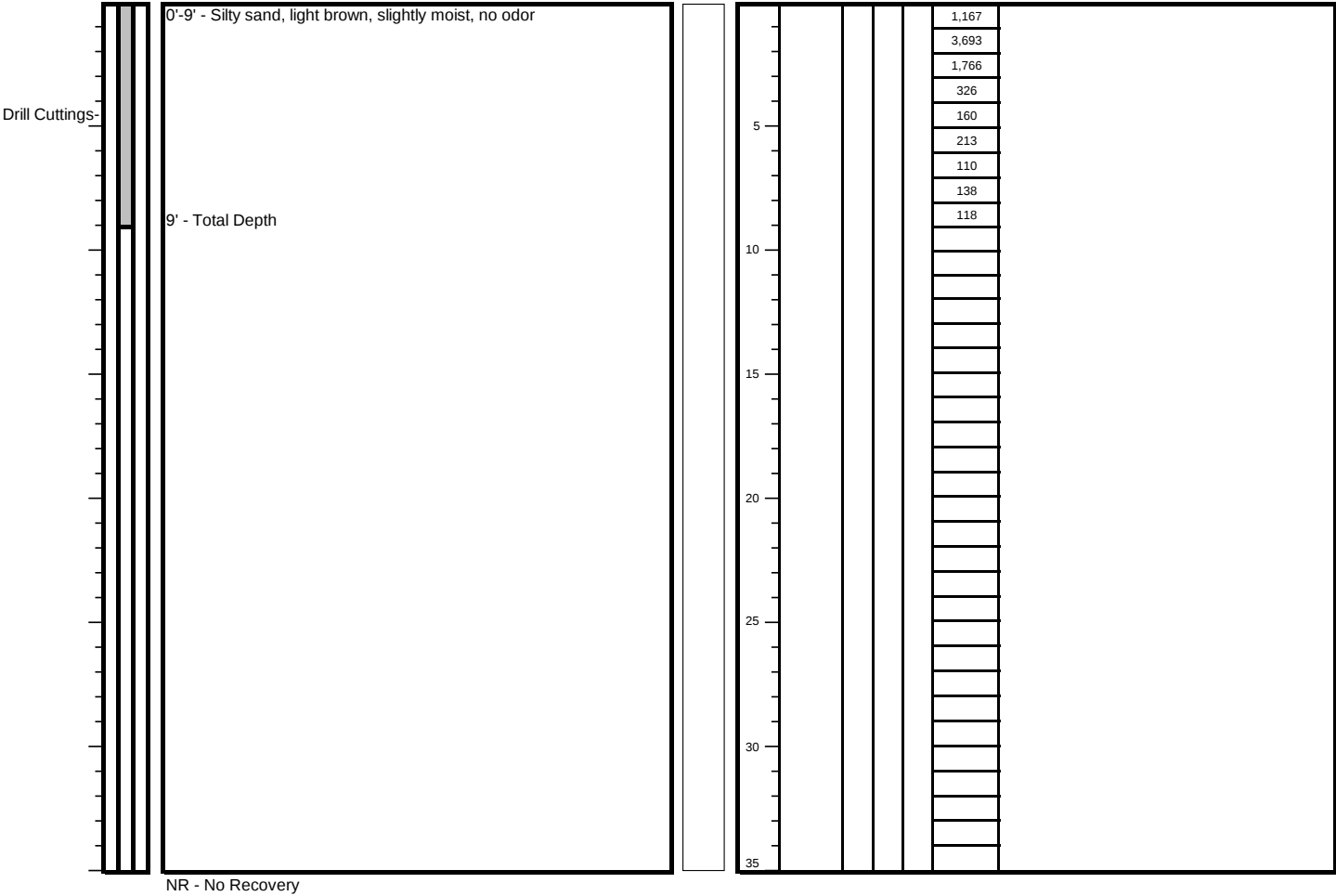
▽ AT COMPLETION

▽ AT WELL STABILIZATION

Electrical Conductivity (EC) Readings (ppm)

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES



SOIL BORING / WELL LOG

Soil Boring / Well Number: GP-5

Project #: 03B2359002
 Drawn By: Kaoru Shimada
 Approved By: Beaux Jennings

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater	Electrical Con



SOIL BORING / WELL LOG

Soil Boring / Well Number: GP-6

Project #: 03B2359002
 Drawn By: Kaoru Shimada
 Approved By: Beaux Jennings

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION		Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater	Electrical Cor



Client: Solaris Water, LLC
Project Name: Fez Carnival NexGen Line
Project Location: Lea County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 08/17/2023
Date Completed: 08/17/2023
Drilling Company: Lighthouse Environmental Services, Inc.
Driller: Luis Ramirez

Soil Boring / Well Number: GP-7
Project #: 03B2359002
Drawn By: Kaoru Shimada
Approved By: Beaux Jennings

Geologist: Leah Nunez Sampler: Leah Nunez
Boring Method: GP Logged By: Leah Nunez
Sampler Type: CB
Bore Hole Diameter: 2.5" Screen: N/A
Casing Diameter: N/A Total Depth: 3'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD

HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE

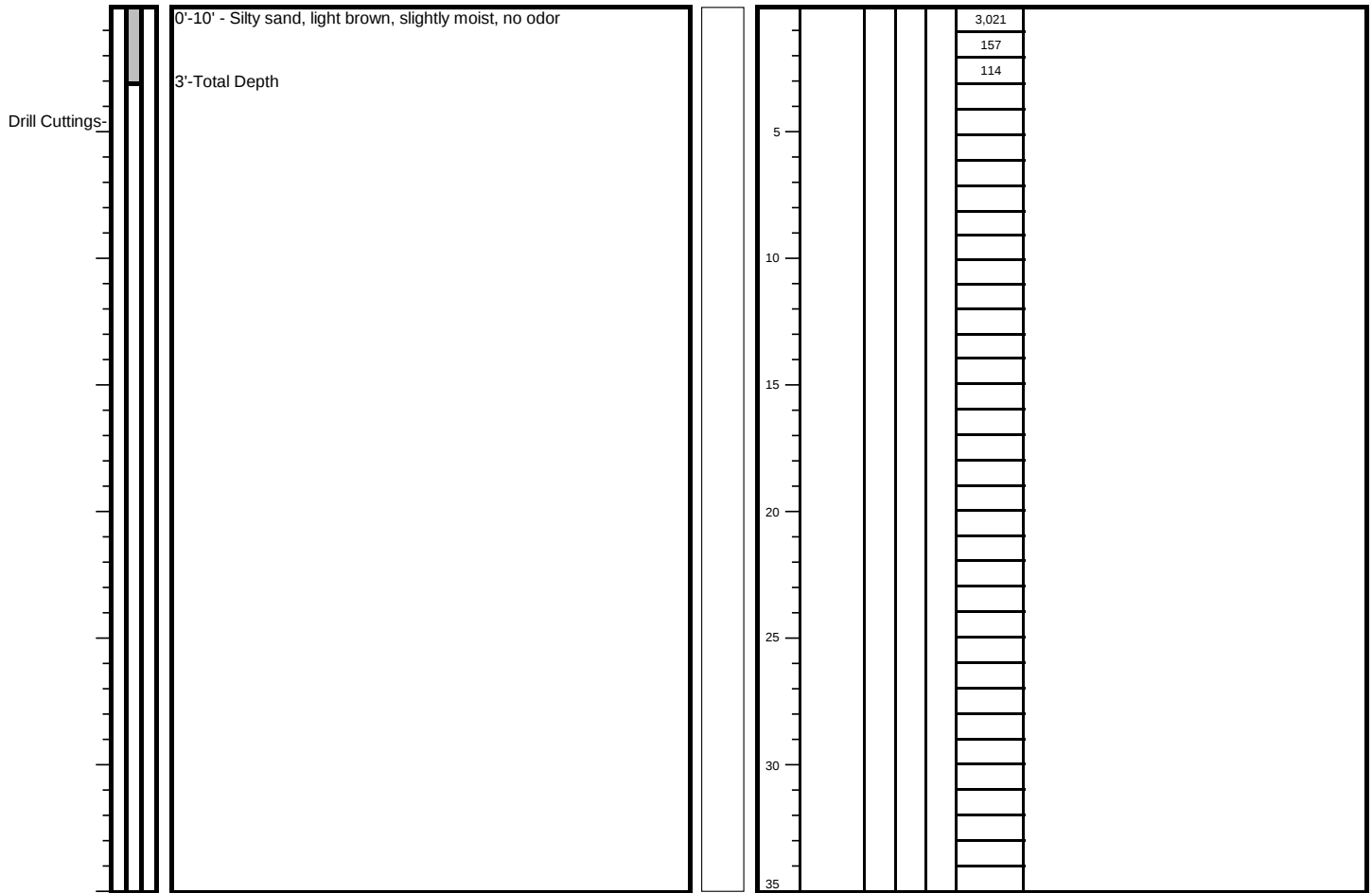
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH

▽ AT COMPLETION
▽ AT WELL STABILIZATION

BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	Electrical Conductivity (EC) Readings (ppm)	BORING AND SAMPLING NOTES
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ATTACHMENT C

Tables

TABLE 1
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS

Fez Carnival NexGen Line
Solaris Water, LLC
Lea County, New Mexico
Ensolum Project No. 03B2359002

Sample Designation	Date	Depth (feet bgs)	Conductivity Field Screening (ppm)	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
New Mexico Oil Conservation Division Closure Criteria Approved Chloride Limit				NE									2,500
Hand Auger Soil Sample Analytical Results													
HA-1	08/11/2023	0-1	6,810	0.000894 J	<0.000456	<0.000565	<0.00101	<0.00101	44.1 J	60.6	<14.9	105	9,780
		9-10	2,840	0.000880 J	<0.000454	<0.000563	<0.00101	<0.00101	47.5 J	48.2 J	<14.9	95.7	727
HA-6	08/11/2023	0-1	1,702	0.000899 J	<0.000460	<0.000570	<0.00102	<0.00102	42.6 J	<14.9	<14.9	42.6 J	4,760
		1-2	82	0.000864 J	<0.000453	<0.000562	<0.00100	<0.00100	43.0 J	59.6	<14.9	103	2,060
		2	Refusal										
HA-7	08/11/2023	0-1	3,699	0.000909 J	<0.000451	<0.000559	<0.00100	<0.00100	34.9 J	<15.1	<15.1	34.9 J	4,710
		1-2	274	0.000895 J	<0.000459	<0.000568	<0.00102	<0.00102	43.7 J	37.9 J	<15.1	81.6	1,350
		2	Refusal										
HA-8	08/11/2023	0-1	2,214	0.000897 J	<0.000454	<0.000563	<0.00101	<0.00101	42.0 J	39.5 J	<14.9	81.5	1,210
	08/17/2023	4-5	1,542	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	20.8 J	23.3 J	<15.1	44.1 J	260
HA-9	08/11/2023	0-1	1,824	0.000914 J	<0.000457	<0.000566	<0.00101	<0.00101	39.6 J	45.5 J	<15.1	85.1	3,390
	08/17/2023	2-3	1,453	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	22.1 J	28.0 J	<15.0	50.1 J	406
Geoprobe Soil Sample Analytical Results													
GP-1	08/17/2023	0-1	5,894	NA									
		11-12	308	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	19.2 J	23.1 J	<14.9	42.3 J	113
GP-2	08/15/2023	0-1	4,045	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	31.3 J	37.2 J	<15.1	68.5	2,310
		13-14	51	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	34.6 J	25.2 J	<15.0	59.8	112
GP-3	08/15/2023	0-1	48	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	33.1 J	19.7 J	<15.1	52.8	364
		7-8	9	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.2	23.6 J	<15.2	23.6	57.1
GP-4	08/15/2023	0-1	1,167	NA									
		8-9	118	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<14.9	24.7 J	<14.9	24.7 J	171
GP-5	08/17/2023	0-1	4,109	NA									
		15-16	81	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	36.3 J	22.4 J	<15.1	58.7 J	86.0
GP-6	08/17/2023	0-1	3,584	NA									
		9-10	116	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	36.6 J	22.0 J	<15.1	58.6 J	105
GP-7	08/17/2023	0-1	3,021	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<14.9	23.3 J	<14.9	23.3 J	56.3
		2-3	114	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	23.4 J	23.0 J	<15.0	46.4 J	792

TABLE 1
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS

Fez Carnival NexGen Line
 Solaris Water, LLC
 Lea County, New Mexico
 Ensolum Project No. 03B2359002

Sample Designation	Date	Depth (feet bgs)	Conductivity Field Screening (ppm)	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
New Mexico Oil Conservation Division Closure Criteria Approved Chloride Limit				NE									2,500
Background Soil Sample Analytical Results													
BG-1	08/11/2023	0-1	2	0.000990 J	<0.000458	<0.000567	<0.00101	<0.00101	36.8 J	61.2	<15.0	98.0	117
	08/17/2023	0-1	8,307	NA									2,560
		1-2	10,944										747
		2-3	5,619										2,090
		3-4	4,774										2,160
		4-5	7,629										2,010
		5-6	2,272										1,070
		6-7	5,293										5,490
		7-8	4,550										5,720
		8-9	4,096										3,890
		9-10	3,859										327
		10-11	3,674										238
		11-12	2,381										1,100
BG-2	08/17/2023	0-1	2,765	NA									1,110
		1-2	1,542										789
		2-3	594										125
		3-4	NA										2,100
		4	Refusal										

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

Concentrations in **bold** and orange exceed the New Mexico Oil Conservation Division Closure Criteria Approved Chloride Limit

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Analyzed

NE: Not Established

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

TABLE 2
CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS
 Fez Carnival NexGen Line
 Solaris Water, LLC
 Lea County, New Mexico
 Ensolum Project No. 03B2359002

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
New Mexico Oil Conservation Division Closure Criteria Approved Chloride Limit			NE									2,500
Floor Soil Sample Analytical Results												
FS-1	03/15/2024	0.5	0.000919 J	<0.000454	<0.000563	<0.00101	<0.00101	46.1 J	21.5 J	<15.1	67.6	106
FS-2	03/15/2024	0.5	0.000880 J	<0.000453	<0.000562	<0.00100	<0.00100	24.5 J	<15.1	<15.1	24.5 J	163
FS-3	03/15/2024	0.5	0.000880 J	<0.000461	<0.000571	<0.00102	<0.00102	30.8 J	<15.1	<15.1	30.8 J	98.3
	08/08/2024	5	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	309
FS-4	03/15/2024	0.5	0.000879 J	<0.000459	<0.000568	<0.00102	<0.00102	25.8 J	<15.2	<15.2	25.8 J	114
	08/08/2024	5	<0.00140	<0.00202	0.00115 J	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	118
FS-5	03/15/2024	0.5	0.000869 J	<0.000452	<0.000561	<0.00100	<0.00100	28.7 J	<15.0	<15.0	28.7 J	74.6
	08/08/2024	5	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	18.8
FS-6	03/15/2024	0.5	0.000883 J	<0.000456	<0.000565	<0.00101	<0.00101	26.0 J	19.6 J	<15.0	45.6 J	65.5
FS-7	03/15/2024	0.5	0.000868 J	<0.000456	<0.000565	<0.00101	<0.00101	22.9 J	18.7 J	<14.9	41.6 J	69.5
FS-8	03/15/2024	0.5	0.000878 J	<0.000458	<0.000567	<0.00101	<0.00101	24.8 J	20.0 J	<14.9	44.8 J	72.2
FS-9	03/15/2024	0.5	0.000874 J	<0.000460	<0.000570	<0.00102	<0.00102	23.1 J	29.8 J	<15.0	52.9	613
	08/08/2024	0.5	NS									6.09
FS-10	03/15/2024	0.5	0.000875 J	<0.000457	<0.000566	<0.00101	<0.00101	23.4 J	54.6	<15.0	78.0	321
FS-11	03/15/2024	0.5	0.000943 J	<0.000453	<0.000562	<0.00100	<0.00100	25.3 J	20.0 J	<15.1	45.3 J	221
FS-12	03/15/2024	0.5	0.000827 J	<0.000451	<0.000559	<0.00100	<0.00100	24.5 J	<15.1	<15.1	24.5 J	265
FS-13	03/15/2024	0.5	0.000855 J	<0.000455	<0.000564	<0.00101	<0.00101	26.2 J	23.0 J	<15.2	49.2 J	88.2
FS-14	03/15/2024	0.5	0.000875 J	<0.000458	<0.000567	<0.00101	<0.00101	27.4 J	17.1 J	<14.9	44.5 J	353
FS-15	03/15/2024	0.5	0.000889 J	<0.000461	<0.000571	<0.00102	<0.00102	35.3 J	18.2 J	<14.9	53.5	85.7
FS-16	03/15/2024	0.5	0.000902 J	<0.000460	<0.000570	<0.00102	<0.00102	39.7 J	16.3 J	<15.1	56.0	634
	08/08/2024	0.5	NS									15.4
FS-17	03/15/2024	0.5	0.000829 J	<0.000454	<0.000563	<0.00101	<0.00101	28.1 J	<15.2	<15.2	28.1 J	243
FS-18	03/15/2024	0.5	0.000854 J	<0.000452	<0.000561	<0.00100	<0.00100	32.4 J	17.4 J	<15.0	49.8 J	98.2
FS-19	03/15/2024	0.5	0.000863 J	<0.000459	<0.000568	<0.00102	<0.00102	32.9 J	17.3 J	<14.9	50.2	56.3
FS-20	03/15/2024	0.5	0.000857 J	<0.000460	<0.000570	<0.00102	<0.00102	32.2 J	16.0 J	<14.9	48.2 J	69.6
FS-21	03/15/2024	0.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	31.7 J	38.6 J	<15.0	70.3	113
FS-22	03/15/2024	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	44.0 J	40.5 J	<15.1	84.5	88.8
FS-23	03/15/2024	0.5	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	36.2 J	36.9 J	<15.1	73.1	119
FS-24	03/15/2024	0.5	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	37.0 J	35.1 J	<14.9	72.1	189
FS-25	03/15/2024	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	41.8 J	38.3 J	<14.9	80.1	120
FS-26	03/15/2024	0.5	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	33.3 J	34.4 J	<15.0	67.7	194
FS-27	03/15/2024	0.5	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	32.5 J	36.5 J	<15.0	69.0	117
FS-28	03/15/2024	0.5	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	35.0 J	39.0 J	<14.9	74.0	694
	08/08/2024	0.5	NS									20.2
FS-29	03/15/2024	0.5	<0000388	<0.000460	<0.000570	<0.00102	<0.00102	32.8 J	35.3 J	<15.1	68.1	260
FS-30	03/15/2024	0.5	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	37.9 J	33.6 J	<15.2	71.5	243
FS-31	03/15/2024	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	35.1 J	32.7 J	<15.0	67.8	309
FS-32	03/15/2024	0.5	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	32.4 J	31.7 J	<15.0	64.1	121
FS-33	03/15/2024	0.5	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	35.7 J	31.3 J	<14.9	67.0	88.5
FS-34	03/15/2024	0.5	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	33.2 J	29.7 J	<14.9	62.9	99.1

TABLE 2
CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS
 Fez Carnival NexGen Line
 Solaris Water, LLC
 Lea County, New Mexico
 Ensolum Project No. 03B2359002

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
New Mexico Oil Conservation Division Closure Criteria Approved Chloride Limit			NE									2,500
FS-35	03/15/2024	0.5	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	33.9 J	30.4 J	<15.0	64.3	86.9
FS-36	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	34.7 J	29.2 J	<15.0	63.9	213
FS-37	03/15/2024	0.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	31.7 J	29.3 J	<15.2	61.0	82.3
FS-38	03/15/2024	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	34.0 J	29.8 J	<14.9	63.8	80.6
FS-39	03/15/2024	0.5	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	36.5 J	28.4 J	<15.0	64.5	75.2
FS-40	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	37.2 J	28.6 J	<15.0	65.8	69.0
FS-41	03/15/2024	0.5	<0.000383	0.000459 J	<0.000563	<0.00101	<0.00101	20.2 J	16.2 J	<14.9	36.4 J	64.6
FS-42	03/15/2024	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	28.6 J	17.2 J	<15.2	45.8 J	85.3
FS-43	03/15/2024	0.5	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	25.1 J	15.2 J	<14.9	40.3 J	55.8
FS-44	03/15/2024	0.5	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	27.2 J	15.1 J	<14.9	42.3 J	67.6
FS-45	03/15/2024	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	25.2 J	<15.0	<15.0	25.2 J	85.0
FS-46	03/15/2024	0.5	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	26.6 J	<15.0	<15.0	26.6 J	70.6
FS-47	03/15/2024	0.5	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	26.1 J	<14.9	<14.9	26.1 J	80.4
FS-48	03/15/2024	0.5	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	26.1 J	<15.1	<15.1	26.1 J	70.8
FS-49	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	27.3 J	<15.0	<15.0	27.3 J	77.6
FS-50	03/15/2024	0.5	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	28.0 J	<15.1	<15.1	28.0 J	93.6
FS-51	03/15/2024	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	28.9 J	<15.2	<15.2	28.9 J	103
FS-52	03/15/2024	0.5	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	33.4 J	<14.9	<14.9	33.4 J	68.1
FS-53	03/15/2024	0.5	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	30.9 J	<15.0	<15.0	30.9 J	73.7
FS-54	03/15/2024	0.5	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	27.6 J	45.8 J	<14.9	43.4 J	72.6
FS-55	03/15/2024	0.5	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	31.9 J	15.3 J	<15.0	47.2 J	60.8
FS-56	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	29.4 J	16.7 J	<15.0	46.1 J	56.4
FS-57	03/15/2024	0.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	29.9 J	<15.1	<15.1	29.9 J	63.2
FS-58	03/15/2024	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	29.6 J	15.7 J	<15.2	45.3 J	78.7
FS-59	03/15/2024	0.5	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	31.2 J	18.2 J	<14.9	49.4 J	74.8
FS-60	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	29.8 J	15.6 J	<15.0	45.4 J	68.2
FS-61	03/15/2024	0.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	63.7
FS-62	03/15/2024	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.2	<15.2	<15.2	<15.2	108
FS-63	03/15/2024	0.5	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<14.9	<14.9	<14.9	<14.9	69.2
FS-64	03/15/2024	0.5	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	58.9
FS-65	03/15/2024	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	<14.9	<14.9	<14.9	<14.9	77.7
FS-66	03/15/2024	0.5	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.1	<15.1	<15.1	<15.1	70.5
FS-67	03/15/2024	0.5	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	64.1
FS-68	03/15/2024	0.5	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	88.4
FS-69	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.2	<15.2	<15.2	<15.2	65.0
FS-70	03/15/2024	0.5	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	18.7 J	<15.0	<15.0	18.7 J	84.8
FS-71	03/15/2024	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	18.4 J	<14.9	<14.9	18.4 J	60.0
FS-72	03/15/2024	0.5	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	21.4 J	<14.9	<14.9	21.4 J	86.7
FS-73	03/15/2024	0.5	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	27.2 J	17.5 J	<14.9	44.7 J	84.3
FS-74	03/15/2024	0.5	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	29.9 J	<15.1	<15.1	29.9 J	61.8
FS-75	03/15/2024	0.5	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	27.8 J	<15.0	<15.0	27.8 J	66.8

TABLE 2
CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS
 Fez Carnival NexGen Line
 Solaris Water, LLC
 Lea County, New Mexico
 Ensolum Project No. 03B2359002

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
New Mexico Oil Conservation Division Closure Criteria Approved Chloride Limit			NE									2,500
FS-76	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	24.7 J	<15.1	<15.1	24.7 J	77.8
FS-77	03/15/2024	0.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	23.7 J	16.2 J	<15.2	39.9 J	59.6
FS-78	03/15/2024	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	28.6 J	<15.0	<15.0	28.6 J	53.9
FS-79	03/15/2024	0.5	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	27.0 J	<15.0	<15.0	27.0 J	66.9
FS-80	03/15/2024	0.5	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	24.9 J	<14.9	<14.9	24.9 J	66.7
FS-81	03/15/2024	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	29.2 J	34.8 J	<15.0	64.0	42.4
Sidewall Soil Sample Analytical Results												
SW-01	08/08/2024	0-5	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	24.1
SW-02	08/08/2024	0-5	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	33.6

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

J: The target analyte was positively identified below the quantitation limit and above the detection limit.

mg/kg: milligrams per kilogram

NA: Not Analyzed

NE: Not Established

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



ATTACHMENT D

Supporting Documentation



BACKGROUND SOIL SAMPLE ANALYTICAL RESULTS F G

Lea County, New Mexico
Ensolum Project No. 03B2359002

Sample Designation	Depth (feet bgs)	Conductivity Field Screening (ppm)	Chloride (mg/kg)
Background Soil Sample Analytical Results			
BG-1	0-1	2	117
	0-1	8,307	2,560
	1-2	10,944	747
	2-3	5,619	2,090
	3-4	4,774	2,160
	4-5	7,629	2,010
	5-6	2,272	1,070
	6-7	5,293	5,490
	7-8	4,550	5,720
	8-9	4,096	3,890
	9-10	3,859	327
	10-11	3,674	238
	11-12	2,381	1,100
BG-2	0-1	2,765	1,110
	1-2	1,542	789
	2-3	594	125
	3-4	NA	2,100
ARITHMETIC MEAN			1,861

95th Upper Confidence Limit CALCULATION

BG-1@0-1	=	117
BG-1@0-1	=	2,560
BG-1@1-2	=	747
BG-1@2-3	=	2,090
BG-1@3-4	=	2,160
BG-1@4-5	=	2,010
BG-1@5-6	=	1,070
BG-1@6-7	=	5,490
BG-1@7-8	=	5,720
BG-1@8-9	=	3,890
BG-1@9-10	=	327
BG-1@10-11	=	238
BG-1@11-12	=	1,100
BG-2@0-1	=	1,110
BG-2@1-2	=	789
BG-2@2-3	=	125
BG-2@3-4	=	2,100

1733.667101 = Standard Deviation
 17 = Sample Size (i.e. 12 samples collected within a 1/4 acre area).
 1.78228 = Student-t Statistic
 Normal = Distribution Type
 1861.353 = Arithmetic Mean
 2610.759 = 95% UCL

$$UCL = \bar{x} + t(s / \sqrt{n})$$

Where: $\bar{x}$ = mean of untransformed data

$$s = \text{standard deviation of untransformed data } s = \frac{n(\bar{x}^2) - (\bar{x})^2}{n(n-1)}$$

t = student-t statistic
 n = number of samples

95th Upper Tolerance Limit Calculation

BG-1@0-1	=	117
BG-1@0-1	=	2,560
BG-1@1-2	=	747
BG-1@2-3	=	2,090
BG-1@3-4	=	2,160
BG-1@4-5	=	2,010
BG-1@5-6	=	1,070
BG-1@6-7	=	5,490
BG-1@7-8	=	5,720
BG-1@8-9	=	3,890
BG-1@9-10	=	327
BG-1@10-11	=	238
BG-1@11-12	=	1,100
BG-2@0-1	=	1,110
BG-2@1-2	=	789
BG-2@2-3	=	125
BG-2@3-4	=	2,100

1733.667101 = Standard Deviation
 17 = Sample Size (i.e. 12 samples collected within a 1/4 acre area).
 2.815 = One-sided tolerance factor
 1861.353 = Arithmetic Mean
 6741.626 = 95% UTL

$$UTL = \bar{x} + kS$$

Where: $\bar{x}$ = Mean

k = One-sided tolerance factor

S = Standard Deviation

Beaux Jennings

From: Rob Kirk <rob.kirk@ariswater.com>
Sent: Wednesday, February 21, 2024 3:25 PM
To: Beaux Jennings
Cc: Justin Coleman; Tanna Lyon; Tacoma Morrissey; Julian Romero
Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 282049

[**EXTERNAL EMAIL**]

Hello Beaux –

Just got off the phone with Nelson – see below approval with changes. Note the new timeline. Glad to discuss with you.

Rob Kirk
VP, Environmental Compliance
Aris Water
469-978-5620



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Date: Wednesday, February 21, 2024 at 2:11 PM
To: Rob Kirk <rob.kirk@ariswater.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 282049

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact IT

To whom it may concern (c/o Rob Kirk for SOLARIS WATER MIDSTREAM, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2321440405, with the following conditions:

- **Remediation plan approved under the following conditions; 1. Chloride background determination approved to 2500 mg/Kg. 2. Wetland riverine determined to be a significant watercourse. 3. OCD determined that the estimated depth to water between 51-100 ft. below grade; therefore, sampling frequency of 500 square feet per one (1) five (5)-point composite sample is approved. 4. Remediation Due date updated to May 21, 2024 for submittal of the appropriate and/or final remediation closure report.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

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

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ATTACHMENT E

Laboratory Analytical Reports &
Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/14/2023 9:29:51 PM

JOB DESCRIPTION

Nexgen Produced Water Release
SDG NUMBER Lea Co, NM

JOB NUMBER

880-31966-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/14/2023 9:29:51 PM

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

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Laboratory Job ID: 880-31966-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Job ID: 880-31966-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-31966-1**

Receipt

The samples were received on 8/11/2023 2:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (880-31966-1), HA-1 (880-31966-2), BG-1 (880-31966-3), HA-9 (880-31966-4), HA-9 (880-31966-5), HA-8 (880-31966-6), HA-8 (880-31966-7), HA-7 (880-31966-8), HA-7 (880-31966-9), HA-6 (880-31966-10) and HA-6 (880-31966-11).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-1 (880-31966-1), HA-1 (880-31966-2), HA-9 (880-31966-5), HA-8 (880-31966-7) and HA-6 (880-31966-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for preparation batch 880-59927 and 880-59953 and analytical batch 880-59940 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60037/31), (CCV 880-60037/47) and (CCV 880-60037/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-31964-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-1 (880-31966-1) and HA-1 (880-31966-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BG-1 (880-31966-3), HA-9 (880-31966-4), HA-9 (880-31966-5), HA-8 (880-31966-6), HA-8 (880-31966-7), HA-7 (880-31966-8), HA-7 (880-31966-9), HA-6 (880-31966-10) and HA-6 (880-31966-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-1

Lab Sample ID: 880-31966-1

Date Collected: 08/11/23 09:15

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000894	J B	0.00200	0.000385 mg/Kg		08/11/23 14:48	08/12/23 05:54	1
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		08/11/23 14:48	08/12/23 05:54	1
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		08/11/23 14:48	08/12/23 05:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 05:54	1
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		08/11/23 14:48	08/12/23 05:54	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/11/23 14:48	08/12/23 05:54	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	08/11/23 14:48	08/12/23 05:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	105		50.0	14.9 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.1	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 00:59	1
Diesel Range Organics (Over C10-C28)	60.6		50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 00:59	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 00:59	1
Total TPH	105		50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	08/12/23 18:22	08/14/23 00:59	1
o-Terphenyl	137	S1+	70 - 130	08/12/23 18:22	08/14/23 00:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9780		5.00	3.94 mg/Kg			08/12/23 08:52	10

Client Sample ID: HA-1

Lab Sample ID: 880-31966-2

Date Collected: 08/11/23 10:00

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 9-10'

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000880	J B	0.00200	0.000383 mg/Kg		08/11/23 14:48	08/12/23 06:15	1
Toluene	<0.000454	U	0.00200	0.000454 mg/Kg		08/11/23 14:48	08/12/23 06:15	1
Ethylbenzene	<0.000563	U	0.00200	0.000563 mg/Kg		08/11/23 14:48	08/12/23 06:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 06:15	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		08/11/23 14:48	08/12/23 06:15	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 06:15	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-1

Lab Sample ID: 880-31966-2

Date Collected: 08/11/23 10:00

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 9-10'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/11/23 14:48	08/12/23 06:15	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130				08/11/23 14:48	08/12/23 06:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.7		50.0	14.9 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.5	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 01:21	1
Diesel Range Organics (Over C10-C28)	48.2	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 01:21	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 01:21	1
Total TPH	95.7		50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 01:21	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/12/23 18:22	08/14/23 01:21	1
o-Terphenyl	133	S1+	70 - 130				08/12/23 18:22	08/14/23 01:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	727		5.00	0.397 mg/Kg			08/12/23 09:23	1

Client Sample ID: BG-1

Lab Sample ID: 880-31966-3

Date Collected: 08/11/23 10:10

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000990	J B	0.00200	0.000387 mg/Kg		08/11/23 14:48	08/12/23 07:58	1
Toluene	<0.000458	U	0.00200	0.000458 mg/Kg		08/11/23 14:48	08/12/23 07:58	1
Ethylbenzene	<0.000567	U	0.00200	0.000567 mg/Kg		08/11/23 14:48	08/12/23 07:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 07:58	1
o-Xylene	<0.000345	U	0.00200	0.000345 mg/Kg		08/11/23 14:48	08/12/23 07:58	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 07:58	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/11/23 14:48	08/12/23 07:58	1
1,4-Difluorobenzene (Surr)	72		70 - 130				08/11/23 14:48	08/12/23 07:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/14/23 14:44	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: BG-1

Lab Sample ID: 880-31966-3

Date Collected: 08/11/23 10:10

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.0		50.0	15.0 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.8	J	50.0	15.0 mg/Kg		08/12/23 18:22	08/14/23 02:03	1
Diesel Range Organics (Over C10-C28)	61.2		50.0	15.0 mg/Kg		08/12/23 18:22	08/14/23 02:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/12/23 18:22	08/14/23 02:03	1
Total TPH	98.0		50.0	15.0 mg/Kg		08/12/23 18:22	08/14/23 02:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			08/12/23 18:22	08/14/23 02:03	1
o-Terphenyl	130		70 - 130			08/12/23 18:22	08/14/23 02:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.00	0.396 mg/Kg			08/12/23 09:34	1

Client Sample ID: HA-9

Lab Sample ID: 880-31966-4

Date Collected: 08/11/23 09:15

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000914	J B	0.00200	0.000386 mg/Kg		08/11/23 14:48	08/12/23 08:18	1
Toluene	<0.000457	U	0.00200	0.000457 mg/Kg		08/11/23 14:48	08/12/23 08:18	1
Ethylbenzene	<0.000566	U	0.00200	0.000566 mg/Kg		08/11/23 14:48	08/12/23 08:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 08:18	1
o-Xylene	<0.000345	U	0.00200	0.000345 mg/Kg		08/11/23 14:48	08/12/23 08:18	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 08:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			08/11/23 14:48	08/12/23 08:18	1
1,4-Difluorobenzene (Surr)	83		70 - 130			08/11/23 14:48	08/12/23 08:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.1		50.0	15.1 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.6	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:24	1
Diesel Range Organics (Over C10-C28)	45.5	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:24	1

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Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-9

Lab Sample ID: 880-31966-4

Date Collected: 08/11/23 09:15

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.1		50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			08/12/23 18:22	08/14/23 02:24	1
o-Terphenyl	126		70 - 130			08/12/23 18:22	08/14/23 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3390		5.00	1.97 mg/Kg			08/12/23 09:44	5

Client Sample ID: HA-9

Lab Sample ID: 880-31966-5

Date Collected: 08/11/23 09:25

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 2-3 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000892	J B	0.00200	0.000384 mg/Kg		08/11/23 14:48	08/12/23 08:39	1
Toluene	<0.000455	U	0.00200	0.000455 mg/Kg		08/11/23 14:48	08/12/23 08:39	1
Ethylbenzene	<0.000564	U	0.00200	0.000564 mg/Kg		08/11/23 14:48	08/12/23 08:39	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 08:39	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		08/11/23 14:48	08/12/23 08:39	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 08:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			08/11/23 14:48	08/12/23 08:39	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130			08/11/23 14:48	08/12/23 08:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.5	J	50.0	15.1 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.5	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:45	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:45	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:45	1
Total TPH	40.5	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			08/12/23 18:22	08/14/23 02:45	1
o-Terphenyl	140	S1+	70 - 130			08/12/23 18:22	08/14/23 02:45	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-9

Lab Sample ID: 880-31966-5

Date Collected: 08/11/23 09:25

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 2-3 ft

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		5.00	0.395 mg/Kg			08/12/23 09:55	1

Client Sample ID: HA-8

Lab Sample ID: 880-31966-6

Date Collected: 08/11/23 09:45

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000897	J B	0.00200	0.000383 mg/Kg		08/11/23 14:48	08/12/23 09:00	1
Toluene	<0.000454	U	0.00200	0.000454 mg/Kg		08/11/23 14:48	08/12/23 09:00	1
Ethylbenzene	<0.000563	U	0.00200	0.000563 mg/Kg		08/11/23 14:48	08/12/23 09:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 09:00	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		08/11/23 14:48	08/12/23 09:00	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 09:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			08/11/23 14:48	08/12/23 09:00	1
1,4-Difluorobenzene (Surr)	75		70 - 130			08/11/23 14:48	08/12/23 09:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.5		50.0	14.9 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	42.0	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:07	1
Diesel Range Organics (Over C10-C28)	39.5	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:07	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:07	1
Total TPH	81.5		50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			08/12/23 18:22	08/14/23 03:07	1
o-Terphenyl	142	S1+	70 - 130			08/12/23 18:22	08/14/23 03:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		5.00	0.395 mg/Kg			08/12/23 10:05	1

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Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-8

Lab Sample ID: 880-31966-7

Date Collected: 08/11/23 09:50

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 1-2 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000892	J B	0.00200	0.000385 mg/Kg		08/11/23 14:48	08/12/23 09:20	1
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		08/11/23 14:48	08/12/23 09:20	1
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		08/11/23 14:48	08/12/23 09:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 09:20	1
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		08/11/23 14:48	08/12/23 09:20	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/11/23 14:48	08/12/23 09:20	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	08/11/23 14:48	08/12/23 09:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.6	J	50.0	14.9 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	42.6	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:28	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:28	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:28	1
Total TPH	42.6	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130	08/12/23 18:22	08/14/23 03:28	1
o-Terphenyl	162	S1+	70 - 130	08/12/23 18:22	08/14/23 03:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		5.00	1.99 mg/Kg			08/12/23 10:15	5

Client Sample ID: HA-7

Lab Sample ID: 880-31966-8

Date Collected: 08/11/23 10:05

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000909	J B	0.00200	0.000381 mg/Kg		08/11/23 14:48	08/12/23 09:41	1
Toluene	<0.000451	U	0.00200	0.000451 mg/Kg		08/11/23 14:48	08/12/23 09:41	1
Ethylbenzene	<0.000559	U	0.00200	0.000559 mg/Kg		08/11/23 14:48	08/12/23 09:41	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00100 mg/Kg		08/11/23 14:48	08/12/23 09:41	1
o-Xylene	<0.000341	U	0.00200	0.000341 mg/Kg		08/11/23 14:48	08/12/23 09:41	1
Xylenes, Total	<0.00100	U	0.00200	0.00100 mg/Kg		08/11/23 14:48	08/12/23 09:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-7

Lab Sample ID: 880-31966-8

Date Collected: 08/11/23 10:05

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1 ft

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	08/11/23 14:48	08/12/23 09:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130	08/11/23 14:48	08/12/23 09:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.00100 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.9	J	50.0	15.1 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.9	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 03:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 03:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 03:49	1
Total TPH	34.9	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130	08/12/23 18:22	08/14/23 03:49	1
o-Terphenyl	153	S1+	70 - 130	08/12/23 18:22	08/14/23 03:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4710		5.00	1.96 mg/Kg			08/12/23 10:46	5

Client Sample ID: HA-7

Lab Sample ID: 880-31966-9

Date Collected: 08/11/23 10:13

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 1-2 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000895	J B	0.00200	0.000387 mg/Kg		08/11/23 14:48	08/12/23 10:01	1
Toluene	<0.000459	U	0.00200	0.000459 mg/Kg		08/11/23 14:48	08/12/23 10:01	1
Ethylbenzene	<0.000568	U	0.00200	0.000568 mg/Kg		08/11/23 14:48	08/12/23 10:01	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/11/23 14:48	08/12/23 10:01	1
o-Xylene	<0.000346	U	0.00200	0.000346 mg/Kg		08/11/23 14:48	08/12/23 10:01	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/11/23 14:48	08/12/23 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/11/23 14:48	08/12/23 10:01	1
1,4-Difluorobenzene (Surr)	73		70 - 130	08/11/23 14:48	08/12/23 10:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/14/23 14:44	1

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Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-7

Lab Sample ID: 880-31966-9

Date Collected: 08/11/23 10:13

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 1-2 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.6		50.0	15.1 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.7	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 04:11	1
Diesel Range Organics (Over C10-C28)	37.9	J	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 04:11	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 04:11	1
Total TPH	81.6		50.0	15.1 mg/Kg		08/12/23 18:22	08/14/23 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			08/12/23 18:22	08/14/23 04:11	1
o-Terphenyl	131	S1+	70 - 130			08/12/23 18:22	08/14/23 04:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		5.00	0.392 mg/Kg			08/12/23 10:57	1

Client Sample ID: HA-6

Lab Sample ID: 880-31966-10

Date Collected: 08/11/23 10:25

Matrix: Solid

Date Received: 08/11/23 14:23

Sample Depth: 0-1 ft

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000899	J B	0.00200	0.000388 mg/Kg		08/11/23 14:48	08/12/23 10:22	1
Toluene	<0.000460	U	0.00200	0.000460 mg/Kg		08/11/23 14:48	08/12/23 10:22	1
Ethylbenzene	<0.000570	U	0.00200	0.000570 mg/Kg		08/11/23 14:48	08/12/23 10:22	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/11/23 14:48	08/12/23 10:22	1
o-Xylene	<0.000347	U	0.00200	0.000347 mg/Kg		08/11/23 14:48	08/12/23 10:22	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/11/23 14:48	08/12/23 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			08/11/23 14:48	08/12/23 10:22	1
1,4-Difluorobenzene (Surr)	88		70 - 130			08/11/23 14:48	08/12/23 10:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/14/23 14:44	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.6	J	50.0	14.9 mg/Kg			08/14/23 22:11	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	42.6	J	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 04:32	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 04:32	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg		08/12/23 18:22	08/14/23 04:32	1

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Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-6
Date Collected: 08/11/23 10:25
Date Received: 08/11/23 14:23
Sample Depth: 0-1 ft

Lab Sample ID: 880-31966-10
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.6	J	50.0	14.9	mg/Kg		08/12/23 18:22	08/14/23 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				08/12/23 18:22	08/14/23 04:32	1
o-Terphenyl	129		70 - 130				08/12/23 18:22	08/14/23 04:32	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4760		5.00	1.98	mg/Kg			08/12/23 11:28	5

Client Sample ID: HA-6
Date Collected: 08/11/23 10:30
Date Received: 08/11/23 14:23
Sample Depth: 1-2 ft

Lab Sample ID: 880-31966-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000864	J B	0.00200	0.000383	mg/Kg		08/11/23 14:48	08/12/23 10:42	1
Toluene	<0.000453	U	0.00200	0.000453	mg/Kg		08/11/23 14:48	08/12/23 10:42	1
Ethylbenzene	<0.000562	U	0.00200	0.000562	mg/Kg		08/11/23 14:48	08/12/23 10:42	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00100	mg/Kg		08/11/23 14:48	08/12/23 10:42	1
o-Xylene	<0.000342	U	0.00200	0.000342	mg/Kg		08/11/23 14:48	08/12/23 10:42	1
Xylenes, Total	<0.00100	U	0.00200	0.00100	mg/Kg		08/11/23 14:48	08/12/23 10:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/11/23 14:48	08/12/23 10:42	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				08/11/23 14:48	08/12/23 10:42	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.00100	mg/Kg			08/14/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	103		50.0	14.9	mg/Kg			08/14/23 22:11	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.0	J	50.0	14.9	mg/Kg		08/12/23 18:22	08/14/23 06:42	1
Diesel Range Organics (Over C10-C28)	59.6		50.0	14.9	mg/Kg		08/12/23 18:22	08/14/23 06:42	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9	mg/Kg		08/12/23 18:22	08/14/23 06:42	1
Total TPH	103		50.0	14.9	mg/Kg		08/12/23 18:22	08/14/23 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				08/12/23 18:22	08/14/23 06:42	1
o-Terphenyl	146	S1+	70 - 130				08/12/23 18:22	08/14/23 06:42	1

Client Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-6
Date Collected: 08/11/23 10:30
Date Received: 08/11/23 14:23
Sample Depth: 1-2 ft

Lab Sample ID: 880-31966-11
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		5.00	1.98	mg/Kg			08/12/23 11:38	5

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

Surrogate Summary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-31966-1	HA-1	110	68 S1-
880-31966-2	HA-1	88	60 S1-
880-31966-3	BG-1	84	72
880-31966-4	HA-9	90	83
880-31966-5	HA-9	91	61 S1-
880-31966-6	HA-8	92	75
880-31966-7	HA-8	114	69 S1-
880-31966-8	HA-7	77	76
880-31966-9	HA-7	119	73
880-31966-10	HA-6	108	88
880-31966-11	HA-6	88	67 S1-
LCS 880-59953/1-A	Lab Control Sample	114	122
LCSD 880-59953/2-A	Lab Control Sample Dup	114	122
MB 880-59927/5-A	Method Blank	73	78
MB 880-59953/5-A	Method Blank	70	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31966-1	HA-1	135 S1+	137 S1+
880-31966-2	HA-1	130	133 S1+
880-31966-3	BG-1	142 S1+	130
880-31966-4	HA-9	136 S1+	126
880-31966-5	HA-9	150 S1+	140 S1+
880-31966-6	HA-8	142 S1+	142 S1+
880-31966-7	HA-8	160 S1+	162 S1+
880-31966-8	HA-7	170 S1+	153 S1+
880-31966-9	HA-7	131 S1+	131 S1+
880-31966-10	HA-6	137 S1+	129
880-31966-11	HA-6	153 S1+	146 S1+
LCS 880-60026/2-A	Lab Control Sample	118	121
LCSD 880-60026/3-A	Lab Control Sample Dup	116	122
MB 880-60026/1-A	Method Blank	122	123
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59927/5-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 59940						Prep Batch: 59927			
Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.0009483	J	0.00200	0.000385 mg/Kg		08/11/23 10:59	08/11/23 16:30	1	
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		08/11/23 10:59	08/11/23 16:30	1	
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		08/11/23 10:59	08/11/23 16:30	1	
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 10:59	08/11/23 16:30	1	
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		08/11/23 10:59	08/11/23 16:30	1	
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 10:59	08/11/23 16:30	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	73		70 - 130			08/11/23 10:59	08/11/23 16:30	1	
1,4-Difluorobenzene (Surr)	78		70 - 130			08/11/23 10:59	08/11/23 16:30	1	

Lab Sample ID: MB 880-59953/5-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 59940						Prep Batch: 59953			
Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.0009547	J	0.00200	0.000385 mg/Kg		08/11/23 14:48	08/12/23 03:09	1	
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		08/11/23 14:48	08/12/23 03:09	1	
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		08/11/23 14:48	08/12/23 03:09	1	
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/11/23 14:48	08/12/23 03:09	1	
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		08/11/23 14:48	08/12/23 03:09	1	
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/11/23 14:48	08/12/23 03:09	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	70		70 - 130			08/11/23 14:48	08/12/23 03:09	1	
1,4-Difluorobenzene (Surr)	100		70 - 130			08/11/23 14:48	08/12/23 03:09	1	

Lab Sample ID: LCS 880-59953/1-A					Client Sample ID: Lab Control Sample						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 59940					Prep Batch: 59953						
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
	Benzene		0.100	0.09686		mg/Kg		97	70 - 130		
	Toluene		0.100	0.1015		mg/Kg		102	70 - 130		
	Ethylbenzene		0.100	0.1001		mg/Kg		100	70 - 130		
	m-Xylene & p-Xylene		0.200	0.2165		mg/Kg		108	70 - 130		
	o-Xylene		0.100	0.1070		mg/Kg		107	70 - 130		
		LCS	LCS								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		114		70 - 130							
1,4-Difluorobenzene (Surr)		122		70 - 130							

Lab Sample ID: LCSD 880-59953/2-A						Client Sample ID: Lab Control Sample Dup			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 59940						Prep Batch: 59953			
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09754		mg/Kg		98	70 - 130	1	35

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QC Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-59953/2-A

Matrix: Solid

Analysis Batch: 59940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59953

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.09962		mg/Kg		100	70 - 130	2		35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	0		35
m-Xylene & p-Xylene	0.200	0.2178		mg/Kg		109	70 - 130	1		35
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130	0		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

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

Lab Sample ID: MB 880-60026/1-A

Matrix: Solid

Analysis Batch: 60037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60026

Analyte	MB		MQL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	mg/Kg		08/12/23 18:22	08/13/23 20:13	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	mg/Kg		08/12/23 18:22	08/13/23 20:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	mg/Kg		08/12/23 18:22	08/13/23 20:13	1
Total TPH	<15.0	U	50.0	mg/Kg		08/12/23 18:22	08/13/23 20:13	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	122		70 - 130	08/12/23 18:22	08/13/23 20:13	1
o-Terphenyl	123		70 - 130	08/12/23 18:22	08/13/23 20:13	1

Lab Sample ID: LCS 880-60026/2-A

Matrix: Solid

Analysis Batch: 60037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	978.3		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	940.2		mg/Kg		94	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	118		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-60026/3-A

Matrix: Solid

Analysis Batch: 60037

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	912.6		mg/Kg		91	70 - 130	7		20
Diesel Range Organics (Over C10-C28)	1000	887.0		mg/Kg		89	70 - 130	6		20

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QC Sample Results

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	116		70 - 130
o-Terphenyl	122		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59960/1-A
Matrix: Solid
Analysis Batch: 60025

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB		MQL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/12/23 07:19	1

Lab Sample ID: LCS 880-59960/2-A
Matrix: Solid
Analysis Batch: 60025

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits	
		Result	Qualifier					
Chloride	250	271.8		mg/Kg		109	90 - 110	

Lab Sample ID: LCSD 880-59960/3-A
Matrix: Solid
Analysis Batch: 60025

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Chloride	250	272.6		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-31966-7 MS
Matrix: Solid
Analysis Batch: 60025

Client Sample ID: HA-8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits	
				Result	Qualifier					
Chloride	1790		1260	3146		mg/Kg		108	90 - 110	

Lab Sample ID: 880-31966-7 MSD
Matrix: Solid
Analysis Batch: 60025

Client Sample ID: HA-8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
Chloride	1790		1260	3147		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 59927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59927/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 59940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Total/NA	Solid	8021B	59953
880-31966-2	HA-1	Total/NA	Solid	8021B	59953
880-31966-3	BG-1	Total/NA	Solid	8021B	59953
880-31966-4	HA-9	Total/NA	Solid	8021B	59953
880-31966-5	HA-9	Total/NA	Solid	8021B	59953
880-31966-6	HA-8	Total/NA	Solid	8021B	59953
880-31966-7	HA-8	Total/NA	Solid	8021B	59953
880-31966-8	HA-7	Total/NA	Solid	8021B	59953
880-31966-9	HA-7	Total/NA	Solid	8021B	59953
880-31966-10	HA-6	Total/NA	Solid	8021B	59953
880-31966-11	HA-6	Total/NA	Solid	8021B	59953
MB 880-59927/5-A	Method Blank	Total/NA	Solid	8021B	59927
MB 880-59953/5-A	Method Blank	Total/NA	Solid	8021B	59953
LCS 880-59953/1-A	Lab Control Sample	Total/NA	Solid	8021B	59953
LCSD 880-59953/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59953

Prep Batch: 59953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Total/NA	Solid	5035	
880-31966-2	HA-1	Total/NA	Solid	5035	
880-31966-3	BG-1	Total/NA	Solid	5035	
880-31966-4	HA-9	Total/NA	Solid	5035	
880-31966-5	HA-9	Total/NA	Solid	5035	
880-31966-6	HA-8	Total/NA	Solid	5035	
880-31966-7	HA-8	Total/NA	Solid	5035	
880-31966-8	HA-7	Total/NA	Solid	5035	
880-31966-9	HA-7	Total/NA	Solid	5035	
880-31966-10	HA-6	Total/NA	Solid	5035	
880-31966-11	HA-6	Total/NA	Solid	5035	
MB 880-59953/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59953/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59953/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 60121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Total/NA	Solid	Total BTEX	
880-31966-2	HA-1	Total/NA	Solid	Total BTEX	
880-31966-3	BG-1	Total/NA	Solid	Total BTEX	
880-31966-4	HA-9	Total/NA	Solid	Total BTEX	
880-31966-5	HA-9	Total/NA	Solid	Total BTEX	
880-31966-6	HA-8	Total/NA	Solid	Total BTEX	
880-31966-7	HA-8	Total/NA	Solid	Total BTEX	
880-31966-8	HA-7	Total/NA	Solid	Total BTEX	
880-31966-9	HA-7	Total/NA	Solid	Total BTEX	
880-31966-10	HA-6	Total/NA	Solid	Total BTEX	
880-31966-11	HA-6	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 60026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Total/NA	Solid	8015NM Prep	
880-31966-2	HA-1	Total/NA	Solid	8015NM Prep	
880-31966-3	BG-1	Total/NA	Solid	8015NM Prep	
880-31966-4	HA-9	Total/NA	Solid	8015NM Prep	
880-31966-5	HA-9	Total/NA	Solid	8015NM Prep	
880-31966-6	HA-8	Total/NA	Solid	8015NM Prep	
880-31966-7	HA-8	Total/NA	Solid	8015NM Prep	
880-31966-8	HA-7	Total/NA	Solid	8015NM Prep	
880-31966-9	HA-7	Total/NA	Solid	8015NM Prep	
880-31966-10	HA-6	Total/NA	Solid	8015NM Prep	
880-31966-11	HA-6	Total/NA	Solid	8015NM Prep	
MB 880-60026/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60026/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Total/NA	Solid	8015B NM	60026
880-31966-2	HA-1	Total/NA	Solid	8015B NM	60026
880-31966-3	BG-1	Total/NA	Solid	8015B NM	60026
880-31966-4	HA-9	Total/NA	Solid	8015B NM	60026
880-31966-5	HA-9	Total/NA	Solid	8015B NM	60026
880-31966-6	HA-8	Total/NA	Solid	8015B NM	60026
880-31966-7	HA-8	Total/NA	Solid	8015B NM	60026
880-31966-8	HA-7	Total/NA	Solid	8015B NM	60026
880-31966-9	HA-7	Total/NA	Solid	8015B NM	60026
880-31966-10	HA-6	Total/NA	Solid	8015B NM	60026
880-31966-11	HA-6	Total/NA	Solid	8015B NM	60026
MB 880-60026/1-A	Method Blank	Total/NA	Solid	8015B NM	60026
LCS 880-60026/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60026
LCSD 880-60026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60026

Analysis Batch: 60224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Total/NA	Solid	8015 NM	
880-31966-2	HA-1	Total/NA	Solid	8015 NM	
880-31966-3	BG-1	Total/NA	Solid	8015 NM	
880-31966-4	HA-9	Total/NA	Solid	8015 NM	
880-31966-5	HA-9	Total/NA	Solid	8015 NM	
880-31966-6	HA-8	Total/NA	Solid	8015 NM	
880-31966-7	HA-8	Total/NA	Solid	8015 NM	
880-31966-8	HA-7	Total/NA	Solid	8015 NM	
880-31966-9	HA-7	Total/NA	Solid	8015 NM	
880-31966-10	HA-6	Total/NA	Solid	8015 NM	
880-31966-11	HA-6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 59960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-2	HA-1	Soluble	Solid	DI Leach	
880-31966-3	BG-1	Soluble	Solid	DI Leach	
880-31966-4	HA-9	Soluble	Solid	DI Leach	
880-31966-5	HA-9	Soluble	Solid	DI Leach	
880-31966-6	HA-8	Soluble	Solid	DI Leach	
880-31966-7	HA-8	Soluble	Solid	DI Leach	
880-31966-8	HA-7	Soluble	Solid	DI Leach	
880-31966-9	HA-7	Soluble	Solid	DI Leach	
880-31966-10	HA-6	Soluble	Solid	DI Leach	
880-31966-11	HA-6	Soluble	Solid	DI Leach	
MB 880-59960/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59960/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59960/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31966-7 MS	HA-8	Soluble	Solid	DI Leach	
880-31966-7 MSD	HA-8	Soluble	Solid	DI Leach	

Analysis Batch: 60025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31966-1	HA-1	Soluble	Solid	300.0	59960
880-31966-2	HA-1	Soluble	Solid	300.0	59960
880-31966-3	BG-1	Soluble	Solid	300.0	59960
880-31966-4	HA-9	Soluble	Solid	300.0	59960
880-31966-5	HA-9	Soluble	Solid	300.0	59960
880-31966-6	HA-8	Soluble	Solid	300.0	59960
880-31966-7	HA-8	Soluble	Solid	300.0	59960
880-31966-8	HA-7	Soluble	Solid	300.0	59960
880-31966-9	HA-7	Soluble	Solid	300.0	59960
880-31966-10	HA-6	Soluble	Solid	300.0	59960
880-31966-11	HA-6	Soluble	Solid	300.0	59960
MB 880-59960/1-A	Method Blank	Soluble	Solid	300.0	59960
LCS 880-59960/2-A	Lab Control Sample	Soluble	Solid	300.0	59960
LCSD 880-59960/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59960
880-31966-7 MS	HA-8	Soluble	Solid	300.0	59960
880-31966-7 MSD	HA-8	Soluble	Solid	300.0	59960

Lab Chronicle

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-1

Date Collected: 08/11/23 09:15

Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 05:54
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 00:59
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		10	60025	SMC	EET MID	08/12/23 08:52

Client Sample ID: HA-1

Date Collected: 08/11/23 10:00

Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 06:15
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 01:21
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		1	60025	SMC	EET MID	08/12/23 09:23

Client Sample ID: BG-1

Date Collected: 08/11/23 10:10

Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 07:58
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 02:03
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		1	60025	SMC	EET MID	08/12/23 09:34

Client Sample ID: HA-9

Date Collected: 08/11/23 09:15

Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 08:18
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-9
Date Collected: 08/11/23 09:15
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 02:24
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		5	60025	SMC	EET MID	08/12/23 09:44

Client Sample ID: HA-9
Date Collected: 08/11/23 09:25
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 08:39
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 02:45
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		1	60025	SMC	EET MID	08/12/23 09:55

Client Sample ID: HA-8
Date Collected: 08/11/23 09:45
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 09:00
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 03:07
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		1	60025	SMC	EET MID	08/12/23 10:05

Client Sample ID: HA-8
Date Collected: 08/11/23 09:50
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 09:20
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 03:28

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-8
Date Collected: 08/11/23 09:50
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		5	60025	SMC	EET MID	08/12/23 10:15

Client Sample ID: HA-7
Date Collected: 08/11/23 10:05
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 09:41
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 03:49
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		5	60025	SMC	EET MID	08/12/23 10:46

Client Sample ID: HA-7
Date Collected: 08/11/23 10:13
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 10:01
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 04:11
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		1	60025	SMC	EET MID	08/12/23 10:57

Client Sample ID: HA-6
Date Collected: 08/11/23 10:25
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 10:22
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 04:32
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		5	60025	SMC	EET MID	08/12/23 11:28

Lab Chronicle

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Client Sample ID: HA-6
Date Collected: 08/11/23 10:30
Date Received: 08/11/23 14:23

Lab Sample ID: 880-31966-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			59953	EL	EET MID	08/11/23 14:48
Total/NA	Analysis	8021B		1	59940	SM	EET MID	08/12/23 10:42
Total/NA	Analysis	Total BTEX		1	60121	SM	EET MID	08/14/23 14:44
Total/NA	Analysis	8015 NM		1	60224	SM	EET MID	08/14/23 22:11
Total/NA	Prep	8015NM Prep			60026	TKC	EET MID	08/12/23 18:22
Total/NA	Analysis	8015B NM		1	60037	SM	EET MID	08/14/23 06:42
Soluble	Leach	DI Leach			59960	KS	EET MID	08/11/23 15:19
Soluble	Analysis	300.0		5	60025	SMC	EET MID	08/12/23 11:38

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

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

Method Summary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Nexgen Produced Water Release

Job ID: 880-31966-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-31966-1	HA-1	Solid	08/11/23 09:15	08/11/23 14:23	0-1'
880-31966-2	HA-1	Solid	08/11/23 10:00	08/11/23 14:23	9-10'
880-31966-3	BG-1	Solid	08/11/23 10:10	08/11/23 14:23	0-1'
880-31966-4	HA-9	Solid	08/11/23 09:15	08/11/23 14:23	0-1 ft
880-31966-5	HA-9	Solid	08/11/23 09:25	08/11/23 14:23	2-3 ft
880-31966-6	HA-8	Solid	08/11/23 09:45	08/11/23 14:23	0-1 ft
880-31966-7	HA-8	Solid	08/11/23 09:50	08/11/23 14:23	1-2 ft
880-31966-8	HA-7	Solid	08/11/23 10:05	08/11/23 14:23	0-1 ft
880-31966-9	HA-7	Solid	08/11/23 10:13	08/11/23 14:23	1-2 ft
880-31966-10	HA-6	Solid	08/11/23 10:25	08/11/23 14:23	0-1 ft
880-31966-11	HA-6	Solid	08/11/23 10:30	08/11/23 14:23	1-2 ft

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Chain of Custody

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



Environmental Testing
Xenoco



10M

880-31966 Chain of Custody

Page 1 of 1
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Chain of Custody

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

Environment Test'ng
Xenco

Loc: 880
Work Order No: 2 31966

Project Manager: <u>Beaver Jennings</u>		Bill to (if different)		www.xenco.com Pa	
Company Name: <u>Ensolam, LLC</u>		Company Name:		Work Order Comments	
Address: <u>601 N Maricopa St Suite 400</u>		City, State ZIP:		Program ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐	
City, State ZIP: <u>Midland TX 79701</u>		City, State ZIP:		State of Project: Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: <u>210-219-8858</u>		Email: <u>Bjennings@ensolam.com</u>		Deliverables EDD ☐ ADaPT ☐ Other:	

Project Name: <u>Norborn Produced Water Release Turn Around</u>		ANALYSIS REQUEST		Preservative Codes	
Project Number: <u>03B2359002</u>	☐ Routine ☒ Rush	Pres. Code		None NO DI Water H ₂ O	
Project Location: <u>Lea County, NM</u>	Due Date: <u>24 hrs</u>	Parameters		Cool Cool MeOH Me	
Sampler's Name: <u>SAM/LN</u>	TAT starts the day received by the lab, if received by 4:30pm	# of Cont		HCL HC HNO ₃ HN	
PO #	Wet Ice: Yes No	Grab/Comp		H ₂ SO ₄ H ₂ NaOH Na	
SAMPLE RECEIPT	Temp Blank: Yes No	Depth Feet		H ₃ PO ₄ HP	
Samples Received Intact: Yes No	Thermometer ID:	Time Sampled		NaHSO ₄ NABIS	
Cooler Custody Seals: Yes No N/A	Correction Factor:	Date Sampled		Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals: Yes No N/A	Temperature Reading:	Matrix		Zn Acetate+NaOH Zn	
Total Containers:	Corrected Temperature:	Sample Identification		NaOH+Ascorbic Acid SAPC	
		HA-9		Sample Comments	
		HA-9-10			
		HA-8			
		HA-8			
		HA-7			
		HA-7			
		HA-6			
		HA-6			

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

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

Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
1	2	3	4
3	4	5	6

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-31966-1

SDG Number: Lea Co, NM

Login Number: 31966

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/24/2023 9:23:23 AM Revision 1

JOB DESCRIPTION

NexGen Produced Water Release
SDG NUMBER Lea County NM

JOB NUMBER

880-32127-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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

Generated
8/24/2023 9:23:23 AM
Revision 1

Client: Ensolum
Project/Site: NexGen Produced Water Release

Laboratory Job ID: 880-32127-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Eurofins Midland

Case Narrative

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Job ID: 880-32127-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-32127-1

REVISION

The report being provided is a revision of the original report sent on 8/18/2023. The report (revision 1) is being revised due to Per client email added chlorides to samples.

Receipt

The samples were received on 8/16/2023 9:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-60364 and analytical batch 880-60348 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-60348 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-60348/33).

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-60420/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-60398 and analytical batch 880-60420 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60362 and analytical batch 880-60399 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: GP-2 (880-32127-14), GP-3 (880-32127-15), GP-4 (880-32127-24), GP-4 (880-32127-31), (880-32127-A-1-E MS) and (880-32127-A-1-F MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60393 and analytical batch 880-60415 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated sample is: GP-3 (880-32127-22).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60393 and analytical batch 880-60415 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (880-32136-A-1-B), (880-32136-A-1-C MS) and (880-32136-A-1-D MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-60841 and analytical batch 880-60882 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Job ID: 880-32127-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-2

Lab Sample ID: 880-32127-1

Date Collected: 08/15/23 11:00

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00200	0.000381 mg/Kg		08/16/23 13:22	08/17/23 03:24	1
Toluene	<0.000451	U	0.00200	0.000451 mg/Kg		08/16/23 13:22	08/17/23 03:24	1
Ethylbenzene	<0.000559	U	0.00200	0.000559 mg/Kg		08/16/23 13:22	08/17/23 03:24	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00100 mg/Kg		08/16/23 13:22	08/17/23 03:24	1
o-Xylene	<0.000341	U	0.00200	0.000341 mg/Kg		08/16/23 13:22	08/17/23 03:24	1
Xylenes, Total	<0.00100	U	0.00200	0.00100 mg/Kg		08/16/23 13:22	08/17/23 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	08/16/23 13:22	08/17/23 03:24	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/16/23 13:22	08/17/23 03:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.00100 mg/Kg			08/17/23 10:00	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.5		50.0	15.1 mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.3	J F2	50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 10:49	1
Diesel Range Organics (Over C10-C28)	37.2	J	50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 10:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 10:49	1
Total TPH	68.5		50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/16/23 17:18	08/17/23 10:49	1
o-Terphenyl	91		70 - 130	08/16/23 17:18	08/17/23 10:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310	F1	5.00	1.98 mg/Kg			08/16/23 17:36	5

Client Sample ID: GP-2

Lab Sample ID: 880-32127-2

Date Collected: 08/15/23 11:04

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 1 - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		5.00	0.397 mg/Kg			08/23/23 12:30	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-2

Lab Sample ID: 880-32127-14

Date Collected: 08/15/23 12:00

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 13 - 14

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000387 mg/Kg		08/16/23 13:22	08/17/23 03:45	1
Toluene	<0.000458	U	0.00200	0.000458 mg/Kg		08/16/23 13:22	08/17/23 03:45	1
Ethylbenzene	<0.000567	U	0.00200	0.000567 mg/Kg		08/16/23 13:22	08/17/23 03:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/16/23 13:22	08/17/23 03:45	1
o-Xylene	<0.000345	U	0.00200	0.000345 mg/Kg		08/16/23 13:22	08/17/23 03:45	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/16/23 13:22	08/17/23 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	08/16/23 13:22	08/17/23 03:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/16/23 13:22	08/17/23 03:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/17/23 10:00	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.8		50.0	15.0 mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.6	J	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 11:59	1
Diesel Range Organics (Over C10-C28)	25.2	J	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 11:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 11:59	1
Total TPH	59.8		50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/16/23 17:18	08/17/23 11:59	1
o-Terphenyl	102		70 - 130	08/16/23 17:18	08/17/23 11:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.00	0.397 mg/Kg			08/16/23 17:57	1

Client Sample ID: GP-3

Lab Sample ID: 880-32127-15

Date Collected: 08/15/23 12:14

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000388 mg/Kg		08/16/23 13:22	08/17/23 04:05	1
Toluene	<0.000460	U	0.00200	0.000460 mg/Kg		08/16/23 13:22	08/17/23 04:05	1
Ethylbenzene	<0.000570	U	0.00200	0.000570 mg/Kg		08/16/23 13:22	08/17/23 04:05	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/16/23 13:22	08/17/23 04:05	1
o-Xylene	<0.000347	U	0.00200	0.000347 mg/Kg		08/16/23 13:22	08/17/23 04:05	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/16/23 13:22	08/17/23 04:05	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-3

Lab Sample ID: 880-32127-15

Date Collected: 08/15/23 12:14

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 0 - 1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			08/16/23 13:22	08/17/23 04:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/16/23 13:22	08/17/23 04:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/17/23 10:00	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.8		50.0	15.1 mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.1	J	50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 12:24	1
Diesel Range Organics (Over C10-C28)	19.7	J	50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 12:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 12:24	1
Total TPH	52.8		50.0	15.1 mg/Kg		08/16/23 17:18	08/17/23 12:24	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			08/16/23 17:18	08/17/23 12:24	1
o-Terphenyl	89		70 - 130			08/16/23 17:18	08/17/23 12:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		5.00	0.394 mg/Kg			08/16/23 18:04	1

Client Sample ID: GP-3

Lab Sample ID: 880-32127-22

Date Collected: 08/15/23 12:30

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 7 - 8

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384 mg/Kg		08/16/23 13:22	08/17/23 04:25	1
Toluene	<0.000455	U	0.00200	0.000455 mg/Kg		08/16/23 13:22	08/17/23 04:25	1
Ethylbenzene	<0.000564	U	0.00200	0.000564 mg/Kg		08/16/23 13:22	08/17/23 04:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/16/23 13:22	08/17/23 04:25	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		08/16/23 13:22	08/17/23 04:25	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/16/23 13:22	08/17/23 04:25	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			08/16/23 13:22	08/17/23 04:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130			08/16/23 13:22	08/17/23 04:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/17/23 10:00	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-3

Lab Sample ID: 880-32127-22

Date Collected: 08/15/23 12:30

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 7 - 8

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.6	J	50.0	15.2 mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.0	15.2 mg/Kg		08/16/23 17:18	08/17/23 12:48	1
Diesel Range Organics (Over C10-C28)	23.6	J	50.0	15.2 mg/Kg		08/16/23 17:18	08/17/23 12:48	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.2 mg/Kg		08/16/23 17:18	08/17/23 12:48	1
Total TPH	23.6	J	50.0	15.2 mg/Kg		08/16/23 17:18	08/17/23 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			08/16/23 17:18	08/17/23 12:48	1
o-Terphenyl	123		70 - 130			08/16/23 17:18	08/17/23 12:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.1		5.00	0.393 mg/Kg			08/16/23 22:15	1

Client Sample ID: GP-4

Lab Sample ID: 880-32127-24

Date Collected: 08/15/23 13:03

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 1 - 2

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000382 mg/Kg		08/16/23 13:22	08/17/23 04:46	1
Toluene	<0.000452	U	0.00200	0.000452 mg/Kg		08/16/23 13:22	08/17/23 04:46	1
Ethylbenzene	<0.000561	U	0.00200	0.000561 mg/Kg		08/16/23 13:22	08/17/23 04:46	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00100 mg/Kg		08/16/23 13:22	08/17/23 04:46	1
o-Xylene	<0.000341	U	0.00200	0.000341 mg/Kg		08/16/23 13:22	08/17/23 04:46	1
Xylenes, Total	<0.00100	U	0.00200	0.00100 mg/Kg		08/16/23 13:22	08/17/23 04:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130			08/16/23 13:22	08/17/23 04:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130			08/16/23 13:22	08/17/23 04:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.00100 mg/Kg			08/17/23 10:00	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.3		50.0	15.0 mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.2	J	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 13:11	1
Diesel Range Organics (Over C10-C28)	24.1	J	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 13:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 13:11	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-4

Lab Sample ID: 880-32127-24

Date Collected: 08/15/23 13:03

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 1 - 2

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.3		50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 13:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			08/16/23 17:18	08/17/23 13:11	1
o-Terphenyl	108		70 - 130			08/16/23 17:18	08/17/23 13:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5640		5.00	3.99 mg/Kg			08/16/23 18:11	10

Client Sample ID: GP-4

Lab Sample ID: 880-32127-26

Date Collected: 08/15/23 13:05

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 3 - 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		5.00	0.397 mg/Kg			08/23/23 12:36	1

Client Sample ID: GP-4

Lab Sample ID: 880-32127-31

Date Collected: 08/15/23 14:00

Matrix: Solid

Date Received: 08/16/23 09:31

Sample Depth: 8 - 9

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000387 mg/Kg		08/16/23 13:22	08/17/23 05:06	1
Toluene	<0.000459	U	0.00200	0.000459 mg/Kg		08/16/23 13:22	08/17/23 05:06	1
Ethylbenzene	<0.000568	U	0.00200	0.000568 mg/Kg		08/16/23 13:22	08/17/23 05:06	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/16/23 13:22	08/17/23 05:06	1
o-Xylene	<0.000346	U	0.00200	0.000346 mg/Kg		08/16/23 13:22	08/17/23 05:06	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/16/23 13:22	08/17/23 05:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			08/16/23 13:22	08/17/23 05:06	1
1,4-Difluorobenzene (Surr)	112		70 - 130			08/16/23 13:22	08/17/23 05:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/17/23 10:00	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.7	J	50.0	14.9 mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	50.0	14.9 mg/Kg		08/16/23 17:18	08/17/23 13:35	1
Diesel Range Organics (Over C10-C28)	24.7	J	50.0	14.9 mg/Kg		08/16/23 17:18	08/17/23 13:35	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-4
Date Collected: 08/15/23 14:00
Date Received: 08/16/23 09:31
Sample Depth: 8 - 9

Lab Sample ID: 880-32127-31
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg		08/16/23 17:18	08/17/23 13:35	1	
Total TPH	24.7	J	50.0	14.9 mg/Kg		08/16/23 17:18	08/17/23 13:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	105		70 - 130			08/16/23 17:18	08/17/23 13:35	1	
o-Terphenyl	114		70 - 130			08/16/23 17:18	08/17/23 13:35	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	171		5.00	0.398 mg/Kg			08/16/23 18:18	1	

Surrogate Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-32127-1	GP-2	73	93
880-32127-1 MS	GP-2	98	88
880-32127-1 MSD	GP-2	98	88
880-32127-14	GP-2	83	98
880-32127-15	GP-3	80	94
880-32127-22	GP-3	76	95
880-32127-24	GP-4	73	100
880-32127-31	GP-4	89	112
LCS 880-60386/1-A	Lab Control Sample	105	85
LCSD 880-60386/2-A	Lab Control Sample Dup	91	93
MB 880-60364/5-A	Method Blank	100	134 S1+
MB 880-60386/5-A	Method Blank	94	117
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-32127-1	GP-2	85	91
880-32127-1 MS	GP-2	109	104
880-32127-1 MSD	GP-2	93	89
880-32127-14	GP-2	94	102
880-32127-15	GP-3	80	89
880-32127-22	GP-3	115	123
880-32127-24	GP-4	102	108
880-32127-31	GP-4	105	114
LCS 880-60398/2-A	Lab Control Sample	89	91
LCSD 880-60398/3-A	Lab Control Sample Dup	83	85
MB 880-60398/1-A	Method Blank	105	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60364/5-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60364

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385 mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		08/16/23 09:58	08/16/23 14:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/16/23 09:58	08/16/23 14:42	1
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/16/23 09:58	08/16/23 14:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/16/23 09:58	08/16/23 14:42	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	08/16/23 09:58	08/16/23 14:42	1

Lab Sample ID: MB 880-60386/5-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60386

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384 mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Toluene	<0.000455	U	0.00200	0.000455 mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Ethylbenzene	<0.000564	U	0.00200	0.000564 mg/Kg		08/16/23 13:22	08/17/23 02:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/16/23 13:22	08/17/23 02:55	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/16/23 13:22	08/17/23 02:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/16/23 13:22	08/17/23 02:55	1
1,4-Difluorobenzene (Surr)	117		70 - 130	08/16/23 13:22	08/17/23 02:55	1

Lab Sample ID: LCS 880-60386/1-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08546		mg/Kg		85	70 - 130
Toluene	0.100	0.08596		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.09135		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1799		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08588		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-60386/2-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08361		mg/Kg		84	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-60386/2-A

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08451		mg/Kg		85	70 - 130	2	35
Ethylbenzene	0.100	0.08379		mg/Kg		84	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1651		mg/Kg		83	70 - 130	9	35
o-Xylene	0.100	0.07664		mg/Kg		77	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-32127-1 MS

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: GP-2

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000381	U	0.0994	0.08878		mg/Kg		89	70 - 130
Toluene	<0.000451	U	0.0994	0.09204		mg/Kg		93	70 - 130
Ethylbenzene	<0.000559	U	0.0994	0.08891		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00100	U	0.199	0.1794		mg/Kg		90	70 - 130
o-Xylene	<0.000341	U	0.0994	0.08356		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-32127-1 MSD

Matrix: Solid

Analysis Batch: 60348

Client Sample ID: GP-2

Prep Type: Total/NA

Prep Batch: 60386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000381	U	0.100	0.09141		mg/Kg		91	70 - 130	3	35
Toluene	<0.000451	U	0.100	0.09192		mg/Kg		92	70 - 130	0	35
Ethylbenzene	<0.000559	U	0.100	0.09221		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	<0.00100	U	0.200	0.1841		mg/Kg		92	70 - 130	3	35
o-Xylene	<0.000341	U	0.100	0.08584		mg/Kg		86	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

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

Lab Sample ID: MB 880-60398/1-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60398

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 08:08	1

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-60398/1-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60398

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 08:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 08:08	1
Total TPH	<15.0	U	50.0	15.0 mg/Kg		08/16/23 17:18	08/17/23 08:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/16/23 17:18	08/17/23 08:08	1
o-Terphenyl	114		70 - 130	08/16/23 17:18	08/17/23 08:08	1

Lab Sample ID: LCS 880-60398/2-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	809.0		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	828.9		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-60398/3-A

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	827.6		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	812.6		mg/Kg		81	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-32127-1 MS

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: GP-2

Prep Type: Total/NA

Prep Batch: 60398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	31.3	J F2	994	1007		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	37.2	J	994	930.7		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	109		70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

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

Lab Sample ID: 880-32127-1 MS

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: GP-2

Prep Type: Total/NA

Prep Batch: 60398

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	104		70 - 130

Lab Sample ID: 880-32127-1 MSD

Matrix: Solid

Analysis Batch: 60420

Client Sample ID: GP-2

Prep Type: Total/NA

Prep Batch: 60398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	31.3	J F2	994	813.0	F2	mg/Kg		79	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	37.2	J	994	791.8		mg/Kg		76	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
<i>o</i> -Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60362/1-A

Matrix: Solid

Analysis Batch: 60399

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/16/23 17:14	1

Lab Sample ID: LCS 880-60362/2-A

Matrix: Solid

Analysis Batch: 60399

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-60362/3-A

Matrix: Solid

Analysis Batch: 60399

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-32127-1 MS

Matrix: Solid

Analysis Batch: 60399

Client Sample ID: GP-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2310	F1	1260	3843	F1	mg/Kg		122	90 - 110

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-32127-1 MSD

Matrix: Solid

Analysis Batch: 60399

Client Sample ID: GP-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2310	F1	1260	3869	F1	mg/Kg		124	90 - 110	1	20

Lab Sample ID: MB 880-60393/1-A

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/16/23 20:42	1

Lab Sample ID: LCS 880-60393/2-A

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-60393/3-A

Matrix: Solid

Analysis Batch: 60415

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.0		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-60841/1-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/23/23 08:48	1

Lab Sample ID: LCS 880-60841/2-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-60841/3-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.0		mg/Kg		100	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

GC VOA

Analysis Batch: 60348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Total/NA	Solid	8021B	60386
880-32127-14	GP-2	Total/NA	Solid	8021B	60386
880-32127-15	GP-3	Total/NA	Solid	8021B	60386
880-32127-22	GP-3	Total/NA	Solid	8021B	60386
880-32127-24	GP-4	Total/NA	Solid	8021B	60386
880-32127-31	GP-4	Total/NA	Solid	8021B	60386
MB 880-60364/5-A	Method Blank	Total/NA	Solid	8021B	60364
MB 880-60386/5-A	Method Blank	Total/NA	Solid	8021B	60386
LCS 880-60386/1-A	Lab Control Sample	Total/NA	Solid	8021B	60386
LCSD 880-60386/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60386
880-32127-1 MS	GP-2	Total/NA	Solid	8021B	60386
880-32127-1 MSD	GP-2	Total/NA	Solid	8021B	60386

Prep Batch: 60364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60364/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 60386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Total/NA	Solid	5035	
880-32127-14	GP-2	Total/NA	Solid	5035	
880-32127-15	GP-3	Total/NA	Solid	5035	
880-32127-22	GP-3	Total/NA	Solid	5035	
880-32127-24	GP-4	Total/NA	Solid	5035	
880-32127-31	GP-4	Total/NA	Solid	5035	
MB 880-60386/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60386/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60386/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32127-1 MS	GP-2	Total/NA	Solid	5035	
880-32127-1 MSD	GP-2	Total/NA	Solid	5035	

Analysis Batch: 60448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Total/NA	Solid	Total BTEX	
880-32127-14	GP-2	Total/NA	Solid	Total BTEX	
880-32127-15	GP-3	Total/NA	Solid	Total BTEX	
880-32127-22	GP-3	Total/NA	Solid	Total BTEX	
880-32127-24	GP-4	Total/NA	Solid	Total BTEX	
880-32127-31	GP-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Total/NA	Solid	8015NM Prep	
880-32127-14	GP-2	Total/NA	Solid	8015NM Prep	
880-32127-15	GP-3	Total/NA	Solid	8015NM Prep	
880-32127-22	GP-3	Total/NA	Solid	8015NM Prep	
880-32127-24	GP-4	Total/NA	Solid	8015NM Prep	
880-32127-31	GP-4	Total/NA	Solid	8015NM Prep	
MB 880-60398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 60398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-60398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32127-1 MS	GP-2	Total/NA	Solid	8015NM Prep	
880-32127-1 MSD	GP-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Total/NA	Solid	8015B NM	60398
880-32127-14	GP-2	Total/NA	Solid	8015B NM	60398
880-32127-15	GP-3	Total/NA	Solid	8015B NM	60398
880-32127-22	GP-3	Total/NA	Solid	8015B NM	60398
880-32127-24	GP-4	Total/NA	Solid	8015B NM	60398
880-32127-31	GP-4	Total/NA	Solid	8015B NM	60398
MB 880-60398/1-A	Method Blank	Total/NA	Solid	8015B NM	60398
LCS 880-60398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60398
LCSD 880-60398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60398
880-32127-1 MS	GP-2	Total/NA	Solid	8015B NM	60398
880-32127-1 MSD	GP-2	Total/NA	Solid	8015B NM	60398

Analysis Batch: 60549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Total/NA	Solid	8015 NM	
880-32127-14	GP-2	Total/NA	Solid	8015 NM	
880-32127-15	GP-3	Total/NA	Solid	8015 NM	
880-32127-22	GP-3	Total/NA	Solid	8015 NM	
880-32127-24	GP-4	Total/NA	Solid	8015 NM	
880-32127-31	GP-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Soluble	Solid	DI Leach	
880-32127-14	GP-2	Soluble	Solid	DI Leach	
880-32127-15	GP-3	Soluble	Solid	DI Leach	
880-32127-24	GP-4	Soluble	Solid	DI Leach	
880-32127-31	GP-4	Soluble	Solid	DI Leach	
MB 880-60362/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60362/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60362/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32127-1 MS	GP-2	Soluble	Solid	DI Leach	
880-32127-1 MSD	GP-2	Soluble	Solid	DI Leach	

Leach Batch: 60393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-22	GP-3	Soluble	Solid	DI Leach	
MB 880-60393/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60393/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60393/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

HPLC/IC

Analysis Batch: 60399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-1	GP-2	Soluble	Solid	300.0	60362
880-32127-14	GP-2	Soluble	Solid	300.0	60362
880-32127-15	GP-3	Soluble	Solid	300.0	60362
880-32127-24	GP-4	Soluble	Solid	300.0	60362
880-32127-31	GP-4	Soluble	Solid	300.0	60362
MB 880-60362/1-A	Method Blank	Soluble	Solid	300.0	60362
LCS 880-60362/2-A	Lab Control Sample	Soluble	Solid	300.0	60362
LCSD 880-60362/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60362
880-32127-1 MS	GP-2	Soluble	Solid	300.0	60362
880-32127-1 MSD	GP-2	Soluble	Solid	300.0	60362

Analysis Batch: 60415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-22	GP-3	Soluble	Solid	300.0	60393
MB 880-60393/1-A	Method Blank	Soluble	Solid	300.0	60393
LCS 880-60393/2-A	Lab Control Sample	Soluble	Solid	300.0	60393
LCSD 880-60393/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60393

Leach Batch: 60841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-2	GP-2	Soluble	Solid	DI Leach	
880-32127-26	GP-4	Soluble	Solid	DI Leach	
MB 880-60841/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60841/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60841/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 60882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32127-2	GP-2	Soluble	Solid	300.0	60841
880-32127-26	GP-4	Soluble	Solid	300.0	60841
MB 880-60841/1-A	Method Blank	Soluble	Solid	300.0	60841
LCS 880-60841/2-A	Lab Control Sample	Soluble	Solid	300.0	60841
LCSD 880-60841/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60841

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-2

Date Collected: 08/15/23 11:00

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60386	EL	EET MID	08/16/23 13:22
Total/NA	Analysis	8021B		1	60348	SM	EET MID	08/17/23 03:24
Total/NA	Analysis	Total BTEX		1	60448	SM	EET MID	08/17/23 10:00
Total/NA	Analysis	8015 NM		1	60549	SM	EET MID	08/18/23 09:32
Total/NA	Prep	8015NM Prep			60398	TKC	EET MID	08/16/23 17:18
Total/NA	Analysis	8015B NM		1	60420	SM	EET MID	08/17/23 10:49
Soluble	Leach	DI Leach			60362	SMC	EET MID	08/16/23 09:46
Soluble	Analysis	300.0		5	60399	SMC	EET MID	08/16/23 17:36

Client Sample ID: GP-2

Date Collected: 08/15/23 11:04

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60841	CH	EET MID	08/23/23 11:00
Soluble	Analysis	300.0		1	60882	CH	EET MID	08/23/23 12:30

Client Sample ID: GP-2

Date Collected: 08/15/23 12:00

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60386	EL	EET MID	08/16/23 13:22
Total/NA	Analysis	8021B		1	60348	SM	EET MID	08/17/23 03:45
Total/NA	Analysis	Total BTEX		1	60448	SM	EET MID	08/17/23 10:00
Total/NA	Analysis	8015 NM		1	60549	SM	EET MID	08/18/23 09:32
Total/NA	Prep	8015NM Prep			60398	TKC	EET MID	08/16/23 17:18
Total/NA	Analysis	8015B NM		1	60420	SM	EET MID	08/17/23 11:59
Soluble	Leach	DI Leach			60362	SMC	EET MID	08/16/23 09:46
Soluble	Analysis	300.0		1	60399	SMC	EET MID	08/16/23 17:57

Client Sample ID: GP-3

Date Collected: 08/15/23 12:14

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60386	EL	EET MID	08/16/23 13:22
Total/NA	Analysis	8021B		1	60348	SM	EET MID	08/17/23 04:05
Total/NA	Analysis	Total BTEX		1	60448	SM	EET MID	08/17/23 10:00
Total/NA	Analysis	8015 NM		1	60549	SM	EET MID	08/18/23 09:32
Total/NA	Prep	8015NM Prep			60398	TKC	EET MID	08/16/23 17:18
Total/NA	Analysis	8015B NM		1	60420	SM	EET MID	08/17/23 12:24
Soluble	Leach	DI Leach			60362	SMC	EET MID	08/16/23 09:46
Soluble	Analysis	300.0		1	60399	SMC	EET MID	08/16/23 18:04

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Client Sample ID: GP-3

Date Collected: 08/15/23 12:30

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60386	EL	EET MID	08/16/23 13:22
Total/NA	Analysis	8021B		1	60348	SM	EET MID	08/17/23 04:25
Total/NA	Analysis	Total BTEX		1	60448	SM	EET MID	08/17/23 10:00
Total/NA	Analysis	8015 NM		1	60549	SM	EET MID	08/18/23 09:32
Total/NA	Prep	8015NM Prep			60398	TKC	EET MID	08/16/23 17:18
Total/NA	Analysis	8015B NM		1	60420	SM	EET MID	08/17/23 12:48
Soluble	Leach	DI Leach			60393	SMC	EET MID	08/16/23 16:20
Soluble	Analysis	300.0		1	60415	SMC	EET MID	08/16/23 22:15

Client Sample ID: GP-4

Date Collected: 08/15/23 13:03

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60386	EL	EET MID	08/16/23 13:22
Total/NA	Analysis	8021B		1	60348	SM	EET MID	08/17/23 04:46
Total/NA	Analysis	Total BTEX		1	60448	SM	EET MID	08/17/23 10:00
Total/NA	Analysis	8015 NM		1	60549	SM	EET MID	08/18/23 09:32
Total/NA	Prep	8015NM Prep			60398	TKC	EET MID	08/16/23 17:18
Total/NA	Analysis	8015B NM		1	60420	SM	EET MID	08/17/23 13:11
Soluble	Leach	DI Leach			60362	SMC	EET MID	08/16/23 09:46
Soluble	Analysis	300.0		10	60399	SMC	EET MID	08/16/23 18:11

Client Sample ID: GP-4

Date Collected: 08/15/23 13:05

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60841	CH	EET MID	08/23/23 11:00
Soluble	Analysis	300.0		1	60882	CH	EET MID	08/23/23 12:36

Client Sample ID: GP-4

Date Collected: 08/15/23 14:00

Date Received: 08/16/23 09:31

Lab Sample ID: 880-32127-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60386	EL	EET MID	08/16/23 13:22
Total/NA	Analysis	8021B		1	60348	SM	EET MID	08/17/23 05:06
Total/NA	Analysis	Total BTEX		1	60448	SM	EET MID	08/17/23 10:00
Total/NA	Analysis	8015 NM		1	60549	SM	EET MID	08/18/23 09:32
Total/NA	Prep	8015NM Prep			60398	TKC	EET MID	08/16/23 17:18
Total/NA	Analysis	8015B NM		1	60420	SM	EET MID	08/17/23 13:35
Soluble	Leach	DI Leach			60362	SMC	EET MID	08/16/23 09:46
Soluble	Analysis	300.0		1	60399	SMC	EET MID	08/16/23 18:18

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32127-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-32127-1	GP-2	Solid	08/15/23 11:00	08/16/23 09:31	0 - 1
880-32127-2	GP-2	Solid	08/15/23 11:04	08/16/23 09:31	1 - 2
880-32127-14	GP-2	Solid	08/15/23 12:00	08/16/23 09:31	13 - 14
880-32127-15	GP-3	Solid	08/15/23 12:14	08/16/23 09:31	0 - 1
880-32127-22	GP-3	Solid	08/15/23 12:30	08/16/23 09:31	7 - 8
880-32127-24	GP-4	Solid	08/15/23 13:03	08/16/23 09:31	1 - 2
880-32127-26	GP-4	Solid	08/15/23 13:05	08/16/23 09:31	3 - 4
880-32127-31	GP-4	Solid	08/15/23 14:00	08/16/23 09:31	8 - 9

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Environment Testing

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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Catspad, NM (575) 988-3199

Chain of Custody

Work Order No:

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Page 1 of 1

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marientfeld St. Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	Bjennings@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name: NexGen Produced Water Release				Turn Around		ANALYSIS REQUEST										Preservative Codes							
Project Number: 03B2359002		Routine		☒ Rush		Pres. Code										None: NO		DI Water: H ₂ O					
Project Location: Lea County, NM		Due Date: 24 HRS		TAT starts the day received by the lab, if received by 4:30pm												Cool: Cool		MeOH: Me					
Sampler's Name: SAM / LN																HCL: HC		HNO ₃ : HN					
PO #: 03B2359002																H ₂ SO ₄ : H ₂		NaOH: Na					
SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No											H ₃ PO ₄ : HP			
Samples Received Intact:				Yes	No	Thermometer ID:													NaHSO ₄ : NABIS				
Cooler Custody Seals:				Yes	No	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:				Yes	No	Temperature Reading:													Zn Acetate+NaOH: Zn				
Total Containers:				Yes	No	Corrected Temperature:													NaOH+Ascorbic Acid: SAPC				
Sample Identification		Matrix	Date Sampled	Time Sampled	Feet Depth	Grab/Comp	# of Cont											Sample Comments					
GP- 2	S	8/15/23	1100	0-1	G	1		BTEX 8021 B															
GP- 2	S	8/15/23	1104	1-2	G	1		TPH 8015 M															
GP- 2	S	8/15/23	1106	2-3	G	1		Chlorides 300.0															
GP- 2	S	8/15/23	1108	3-4	G	1																	
GP- 2	S	8/15/23	1111	4-5	G	1																	
GP- 2	S	8/15/23	1116	5-6	G	1																	
GP- 2	S	8/15/23	1118	6-7	G	1																	
GP- 2	S	8/15/23	1120	7-8	G	1																	
GP- 2	S	8/15/23	1138	8-9	G	1																	
GP- 2	S	8/15/23	1146	9-10	G	1																	

UFC

8/16/23

Sum



880-32127 Chain of Custody

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

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		09/10/23			
		09/21			



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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

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Page 2 of 4

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marlenfield St. Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	Bjennings@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		NexGen Produced Water Release		Turn Around		ANALYSIS REQUEST													Preservative Codes					
Project Number:		03B2359002		Routine		☒ Rush	Prim. Code															None: NO DI Water: H ₂ O		
Project Location:		Lea County, NM		Due Date:		24 HRS																	Cool: Cool MeOH: Me	
Sampler's Name:		SAM / LN		TAT starts the day received by the lab, if received by 4:30pm <td colspan="2"></td> <td colspan="2"></td> <td colspan="13"></td> <td colspan="2">HCL: HC HNO₃: HN</td>																			HCL: HC HNO ₃ : HN	
PO #:		03B2359002																					H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT				Temp Blank:	Yes	No	Thermometer ID:														H ₃ PO ₄ : HP			
Samples Received Inact:				Yes	No		Correction Factor:														NaHSO ₄ : NABIS			
Cooler Custody Seals:				Yes	No	N/A	Temperature Reading:														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:				Yes	No	N/A	Corrected Temperature:														Zn Acetate+NaOH: Zn			
Total Containers:																					NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont														Sample Comments			
GP- 2		S	8/15/23	1154	10-11	G	1	BTEx 8021 B													Hold			
GP- 2		S	8/15/23	1156	11-12	G	1	TPH 8015 M													Hold			
GP- 2		S	8/15/23	1158	12-13	G	1	Chlorides 300.0													Hold			
GP- 2		S	8/15/23	1200	13-14	G	1														Hold			
GP- 3		S	8/15/23	1211	0-1	G	1														Hold			
GP- 3		S	8/15/23	1216	1-2	G	1														Hold			
GP- 3		S	8/15/23	1218	2-3	G	1														Hold			
GP- 3		S	8/15/23	1220	3-4	G	1														Hold			
GP- 3		S	8/15/23	1224	4-5	G	1														Hold			
GP- 3		S	8/15/23	1226	5-6	G	1														Hold			

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

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		2			
		4			
		6			



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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Page 3 of 4

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marientfeld St. Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	NexGen Produced Water Release	Turn Around	☒ Routine ☐ Rush	Pris. Code		
Project Number:	03B2359002	Due Date:	24 HRS			
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm				
Sampler's Name:	SAM / LN					
PO #:	03B2359002					
SAMPLE RECEIPT	Temp Blank:	Yes	No	Well Ice:	Yes	No
Samples Received Intact:	Yes	No	Thermometer ID:			
Cooler Custody Seals:	Yes	No	Correction Factor:			
Sample Custody Seals:	Yes	No	Temperature Reading:			
Total Containers:		Corrected Temperature:				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont
GP-3	S	8/15/23	1728	6-7	G	1
GP-3	S	8/15/23	1236	7-8	G	1
GP-4	S	8/15/23	1302	0-1	G	1
GP-4	S	8/15/23	1363	1-2	G	1
GP-4	S	8/15/23	1304	2-3	G	1
GP-4	S	8/15/23	1305	3-4	G	1
GP-4	S	8/15/23	1324	4-5	G	1
GP-4	S	8/15/23	1326	5-6	G	1
GP-4	S	8/15/23	1328	6-7	G	1
GP-4	S	8/15/23	1330	7-8	G	1

ANALYSIS REQUEST

BTX 8021 B

TPH 8015 M

Chlorides 300.0

Preservative Codes

None: NO

DI Water: H₂O

Cool: Cool

MeOH: Me

HCL: HC

HNO₃: HN

H₂SO₄: H₂

H₃PO₄: HP

NaHSO₄: NABIS

Na₂S₂O₃: NaSO₃

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Hold

Hold

Hold

Hold

Hold

Hold

Hold

Hold

Hold

Hold

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed	TC1P / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471																															

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1					
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Environment Testing
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Work Order No: _____

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Page 4 of 4

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Phone:	210-219-8858	Email:	bjennings@ensolum.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	NexGen Produced Water Release	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03B2359002	Due Date:	24 HRS		
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	SAM / LN	Wet Ice:	Yes No		
PO #:	03B2359002	Thermometer ID:			
SAMPLE RECEIPT	Temp Blank:	Yes No			
Samples Received Inact:	Yes No	Correction Factor:			
Cooler Custody Seals:	Yes No N/A	Temperature Reading:			
Sample Custody Seals:	Yes No N/A	Corrected Temperature:			
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Feet Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
GP-4	S	8/15/23	1400	8-9	G	1	BTEX 8021 B		None: NO	
							TPH 8015 M		Cool: Cool	DI Water: H ₂ O
							Chlorides 300.0		HCL: HC	MeOH: Me
									H ₂ SO ₄ : H ₂	HNO ₃ : HN
									H ₃ PO ₄ : HP	NaOH: Na
									NaHSO ₄ : NABIS	
									Na ₂ S ₂ O ₃ : NaSO ₃	
									Zn Acetate+NaOH: Zn	
									NaOH+Ascorbic Acid: SAPC	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	2			
		4			
		6			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-32127-1

SDG Number: Lea County NM

Login Number: 32127

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/23/2023 4:38:52 PM

JOB DESCRIPTION

NexGen Produced Water Release
SDG NUMBER Lea Co NM

JOB NUMBER

880-32303-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/23/2023 4:38:52 PM

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

Client: Ensolum
Project/Site: NexGen Produced Water Release

Laboratory Job ID: 880-32303-1
SDG: Lea Co NM

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Definitions/Glossary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Job ID: 880-32303-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-32303-1**

Receipt

The samples were received on 8/18/2023 3:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-60677/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60604 and analytical batch 880-60630 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: GP-5 (880-32303-21), GP-5 (880-32303-32), GP-6 (880-32303-37), GP-6 (880-32303-42), GP-7 (880-32303-43), GP-7 (880-32303-45), HA-8 (880-32303-46), HA-8 (880-32303-50), HA-9 (880-32303-51), HA-9 (880-32303-53), GP-1 (880-32303-65), (880-32303-A-21-C MS) and (880-32303-A-21-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60630/31), (CCV 880-60630/47), (CCV 880-60630/58) and (LCSD 880-60604/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-60604 and analytical batch 880-60630 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-60604 and analytical batch 880-60630 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60741 and analytical batch 880-60776 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-5126-A-1-D) and (890-5126-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60776/20) and (CCV 880-60776/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-60590 and 880-60590 and analytical batch 880-60668 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-60841 and analytical batch 880-60882 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Job ID: 880-32303-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: BG-1

Lab Sample ID: 880-32303-1

Date Collected: 08/17/23 18:55

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2560	F1	5.00	1.97 mg/Kg			08/20/23 01:10	5

Client Sample ID: BG-1

Lab Sample ID: 880-32303-2

Date Collected: 08/17/23 18:57

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 1 - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	747		5.00	0.392 mg/Kg			08/20/23 01:30	1

Client Sample ID: BG-1

Lab Sample ID: 880-32303-3

Date Collected: 08/17/23 18:59

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		5.00	1.98 mg/Kg			08/20/23 01:36	5

Client Sample ID: BG-1

Lab Sample ID: 880-32303-4

Date Collected: 08/17/23 19:01

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 3 - 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2160		5.00	1.98 mg/Kg			08/20/23 01:43	5

Client Sample ID: BG-1

Lab Sample ID: 880-32303-5

Date Collected: 08/17/23 19:04

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		5.00	1.96 mg/Kg			08/20/23 01:50	5

Client Sample ID: BG-1

Lab Sample ID: 880-32303-6

Date Collected: 08/17/23 19:06

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 5 - 6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.00	0.393 mg/Kg			08/20/23 02:10	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: BG-1

Lab Sample ID: 880-32303-7

Date Collected: 08/17/23 19:08

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 6 - 7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5490		5.00	3.97 mg/Kg			08/20/23 02:16	10

Client Sample ID: BG-1

Lab Sample ID: 880-32303-8

Date Collected: 08/17/23 19:10

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 7 - 8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5720		5.00	3.99 mg/Kg			08/20/23 02:23	10

Client Sample ID: BG-1

Lab Sample ID: 880-32303-9

Date Collected: 08/17/23 19:12

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 8 - 9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		5.00	1.99 mg/Kg			08/20/23 02:29	5

Client Sample ID: BG-1

Lab Sample ID: 880-32303-10

Date Collected: 08/17/23 19:14

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 9 - 10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	327		5.00	0.397 mg/Kg			08/20/23 02:36	1

Client Sample ID: BG-1

Lab Sample ID: 880-32303-11

Date Collected: 08/17/23 19:16

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 10 - 11

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	238		5.00	0.395 mg/Kg			08/20/23 02:43	1

Client Sample ID: BG-1

Lab Sample ID: 880-32303-12

Date Collected: 08/17/23 19:18

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 11 - 12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		5.00	0.393 mg/Kg			08/20/23 03:02	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: BG-2

Lab Sample ID: 880-32303-13

Date Collected: 08/17/23 14:56

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.00	0.391 mg/Kg			08/20/23 03:09	1

Client Sample ID: BG-2

Lab Sample ID: 880-32303-14

Date Collected: 08/17/23 15:10

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 1 - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	789		5.00	0.392 mg/Kg			08/20/23 03:29	1

Client Sample ID: BG-2

Lab Sample ID: 880-32303-15

Date Collected: 08/17/23 15:20

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		5.00	0.394 mg/Kg			08/20/23 03:36	1

Client Sample ID: BG-2

Lab Sample ID: 880-32303-16

Date Collected: 08/17/23 15:30

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 3 - 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		5.00	1.99 mg/Kg			08/20/23 03:42	5

Client Sample ID: GP-5

Lab Sample ID: 880-32303-19

Date Collected: 08/17/23 08:44

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309	F1	5.00	0.396 mg/Kg			08/23/23 12:41	1

Client Sample ID: GP-5

Lab Sample ID: 880-32303-21

Date Collected: 08/17/23 08:50

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00200	0.000381 mg/Kg		08/21/23 10:39	08/21/23 12:41	1
Toluene	<0.000451	U	0.00200	0.000451 mg/Kg		08/21/23 10:39	08/21/23 12:41	1
Ethylbenzene	<0.000559	U	0.00200	0.000559 mg/Kg		08/21/23 10:39	08/21/23 12:41	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00100 mg/Kg		08/21/23 10:39	08/21/23 12:41	1
o-Xylene	<0.000341	U	0.00200	0.000341 mg/Kg		08/21/23 10:39	08/21/23 12:41	1
Xylenes, Total	<0.00100	U	0.00200	0.00100 mg/Kg		08/21/23 10:39	08/21/23 12:41	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-5

Lab Sample ID: 880-32303-21

Date Collected: 08/17/23 08:50

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/21/23 10:39	08/21/23 12:41	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/21/23 10:39	08/21/23 12:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.00100 mg/Kg			08/22/23 10:20	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.6		50.0	15.1 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.7	J B F2	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 20:41	1
Diesel Range Organics (Over C10-C28)	20.9	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 20:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 20:41	1
Total TPH	54.6	B F2	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	08/18/23 18:11	08/20/23 20:41	1
o-Terphenyl	164	S1+	70 - 130	08/18/23 18:11	08/20/23 20:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		5.00	0.399 mg/Kg			08/20/23 03:49	1

Client Sample ID: GP-5

Lab Sample ID: 880-32303-32

Date Collected: 08/17/23 10:05

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 15 - 16

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386 mg/Kg		08/21/23 10:39	08/21/23 13:07	1
Toluene	<0.000457	U	0.00200	0.000457 mg/Kg		08/21/23 10:39	08/21/23 13:07	1
Ethylbenzene	<0.000566	U	0.00200	0.000566 mg/Kg		08/21/23 10:39	08/21/23 13:07	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/21/23 10:39	08/21/23 13:07	1
o-Xylene	<0.000345	U	0.00200	0.000345 mg/Kg		08/21/23 10:39	08/21/23 13:07	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/21/23 10:39	08/21/23 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/21/23 10:39	08/21/23 13:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/21/23 10:39	08/21/23 13:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/22/23 10:20	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-5

Lab Sample ID: 880-32303-32

Date Collected: 08/17/23 10:05

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 15 - 16

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.7		50.0	15.1 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.3	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 21:49	1
Diesel Range Organics (Over C10-C28)	22.4	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 21:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 21:49	1
Total TPH	58.7	B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	08/18/23 18:11	08/20/23 21:49	1
o-Terphenyl	147	S1+	70 - 130	08/18/23 18:11	08/20/23 21:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.0		5.00	0.397 mg/Kg			08/20/23 03:56	1

Client Sample ID: GP-6

Lab Sample ID: 880-32303-34

Date Collected: 08/17/23 10:57

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 1 - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		5.00	1.97 mg/Kg			08/23/23 13:16	5

Client Sample ID: GP-6

Lab Sample ID: 880-32303-37

Date Collected: 08/17/23 11:11

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000388 mg/Kg		08/21/23 10:39	08/21/23 13:33	1
Toluene	<0.000460	U	0.00200	0.000460 mg/Kg		08/21/23 10:39	08/21/23 13:33	1
Ethylbenzene	<0.000570	U	0.00200	0.000570 mg/Kg		08/21/23 10:39	08/21/23 13:33	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/21/23 10:39	08/21/23 13:33	1
o-Xylene	<0.000347	U	0.00200	0.000347 mg/Kg		08/21/23 10:39	08/21/23 13:33	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/21/23 10:39	08/21/23 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/21/23 10:39	08/21/23 13:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/21/23 10:39	08/21/23 13:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/22/23 10:20	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-6

Lab Sample ID: 880-32303-37

Date Collected: 08/17/23 11:11

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.2		50.0	15.0 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.9	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 22:11	1
Diesel Range Organics (Over C10-C28)	31.3	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 22:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 22:11	1
Total TPH	79.2	B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	08/18/23 18:11	08/20/23 22:11	1
o-Terphenyl	154	S1+	70 - 130	08/18/23 18:11	08/20/23 22:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		5.00	0.397 mg/Kg			08/20/23 04:02	1

Client Sample ID: GP-6

Lab Sample ID: 880-32303-42

Date Collected: 08/17/23 11:42

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 9 - 10

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384 mg/Kg		08/21/23 10:39	08/21/23 13:59	1
Toluene	<0.000455	U	0.00200	0.000455 mg/Kg		08/21/23 10:39	08/21/23 13:59	1
Ethylbenzene	<0.000564	U	0.00200	0.000564 mg/Kg		08/21/23 10:39	08/21/23 13:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/21/23 10:39	08/21/23 13:59	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		08/21/23 10:39	08/21/23 13:59	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/21/23 10:39	08/21/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/21/23 10:39	08/21/23 13:59	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/21/23 10:39	08/21/23 13:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/22/23 10:20	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.6		50.0	15.1 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.6	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 22:33	1
Diesel Range Organics (Over C10-C28)	22.0	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 22:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 22:33	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-6

Lab Sample ID: 880-32303-42

Date Collected: 08/17/23 11:42

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 9 - 10

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.6	B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 22:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			08/18/23 18:11	08/20/23 22:33	1
o-Terphenyl	144	S1+	70 - 130			08/18/23 18:11	08/20/23 22:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		5.00	0.397 mg/Kg			08/20/23 04:09	1

Client Sample ID: GP-7

Lab Sample ID: 880-32303-43

Date Collected: 08/17/23 12:15

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385 mg/Kg		08/21/23 10:39	08/21/23 14:25	1
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		08/21/23 10:39	08/21/23 14:25	1
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		08/21/23 10:39	08/21/23 14:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/21/23 10:39	08/21/23 14:25	1
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		08/21/23 10:39	08/21/23 14:25	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/21/23 10:39	08/21/23 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			08/21/23 10:39	08/21/23 14:25	1
1,4-Difluorobenzene (Surr)	112		70 - 130			08/21/23 10:39	08/21/23 14:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/22/23 10:20	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.3	J	50.0	14.9 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	50.0	14.9 mg/Kg		08/18/23 18:11	08/20/23 22:54	1
Diesel Range Organics (Over C10-C28)	23.3	J B	50.0	14.9 mg/Kg		08/18/23 18:11	08/20/23 22:54	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg		08/18/23 18:11	08/20/23 22:54	1
Total TPH	23.3	J B	50.0	14.9 mg/Kg		08/18/23 18:11	08/20/23 22:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			08/18/23 18:11	08/20/23 22:54	1
o-Terphenyl	145	S1+	70 - 130			08/18/23 18:11	08/20/23 22:54	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-7

Lab Sample ID: 880-32303-43

Date Collected: 08/17/23 12:15

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.3		5.00	0.398 mg/Kg			08/19/23 15:11	1

Client Sample ID: GP-7

Lab Sample ID: 880-32303-45

Date Collected: 08/17/23 12:19

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00200	0.000381 mg/Kg		08/21/23 10:39	08/21/23 14:50	1
Toluene	<0.000451	U	0.00200	0.000451 mg/Kg		08/21/23 10:39	08/21/23 14:50	1
Ethylbenzene	<0.000559	U	0.00200	0.000559 mg/Kg		08/21/23 10:39	08/21/23 14:50	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00100 mg/Kg		08/21/23 10:39	08/21/23 14:50	1
o-Xylene	<0.000341	U	0.00200	0.000341 mg/Kg		08/21/23 10:39	08/21/23 14:50	1
Xylenes, Total	<0.00100	U	0.00200	0.00100 mg/Kg		08/21/23 10:39	08/21/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			08/21/23 10:39	08/21/23 14:50	1
1,4-Difluorobenzene (Surr)	98		70 - 130			08/21/23 10:39	08/21/23 14:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.00100 mg/Kg			08/22/23 10:20	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.4	J	50.0	15.0 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.4	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:15	1
Diesel Range Organics (Over C10-C28)	23.0	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:15	1
Total TPH	46.4	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			08/18/23 18:11	08/20/23 23:15	1
o-Terphenyl	136	S1+	70 - 130			08/18/23 18:11	08/20/23 23:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	792		5.00	0.393 mg/Kg			08/19/23 15:33	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: HA-8

Lab Sample ID: 880-32303-46

Date Collected: 08/17/23 12:50

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00200	0.000389 mg/Kg		08/21/23 10:39	08/21/23 15:16	1
Toluene	<0.000461	U	0.00200	0.000461 mg/Kg		08/21/23 10:39	08/21/23 15:16	1
Ethylbenzene	<0.000571	U	0.00200	0.000571 mg/Kg		08/21/23 10:39	08/21/23 15:16	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/21/23 10:39	08/21/23 15:16	1
o-Xylene	<0.000347	U	0.00200	0.000347 mg/Kg		08/21/23 10:39	08/21/23 15:16	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/21/23 10:39	08/21/23 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			08/21/23 10:39	08/21/23 15:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130			08/21/23 10:39	08/21/23 15:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/22/23 10:20	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.4	J	50.0	15.0 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.9	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:36	1
Diesel Range Organics (Over C10-C28)	22.5	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:36	1
Total TPH	42.4	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 23:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			08/18/23 18:11	08/20/23 23:36	1
o-Terphenyl	136	S1+	70 - 130			08/18/23 18:11	08/20/23 23:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	993		5.00	0.391 mg/Kg			08/19/23 15:40	1

Client Sample ID: HA-8

Lab Sample ID: 880-32303-48

Date Collected: 08/17/23 12:55

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		5.00	0.394 mg/Kg			08/23/23 13:22	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: HA-8

Lab Sample ID: 880-32303-50

Date Collected: 08/17/23 13:17

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386 mg/Kg		08/21/23 10:39	08/21/23 16:00	1
Toluene	<0.000457	U	0.00200	0.000457 mg/Kg		08/21/23 10:39	08/21/23 16:00	1
Ethylbenzene	<0.000566	U	0.00200	0.000566 mg/Kg		08/21/23 10:39	08/21/23 16:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/21/23 10:39	08/21/23 16:00	1
o-Xylene	<0.000345	U	0.00200	0.000345 mg/Kg		08/21/23 10:39	08/21/23 16:00	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/21/23 10:39	08/21/23 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/21/23 10:39	08/21/23 16:00	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/21/23 10:39	08/21/23 16:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/22/23 10:20	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.1	J	50.0	15.1 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.8	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 23:58	1
Diesel Range Organics (Over C10-C28)	23.3	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 23:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 23:58	1
Total TPH	44.1	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/20/23 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	08/18/23 18:11	08/20/23 23:58	1
o-Terphenyl	142	S1+	70 - 130	08/18/23 18:11	08/20/23 23:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		5.00	0.397 mg/Kg			08/19/23 15:47	1

Client Sample ID: HA-9

Lab Sample ID: 880-32303-51

Date Collected: 08/17/23 14:27

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000387 mg/Kg		08/21/23 10:39	08/21/23 16:26	1
Toluene	<0.000459	U	0.00200	0.000459 mg/Kg		08/21/23 10:39	08/21/23 16:26	1
Ethylbenzene	<0.000568	U	0.00200	0.000568 mg/Kg		08/21/23 10:39	08/21/23 16:26	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/21/23 10:39	08/21/23 16:26	1
o-Xylene	<0.000346	U	0.00200	0.000346 mg/Kg		08/21/23 10:39	08/21/23 16:26	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/21/23 10:39	08/21/23 16:26	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: HA-9

Lab Sample ID: 880-32303-51

Date Collected: 08/17/23 14:27

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 0 - 1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/21/23 10:39	08/21/23 16:26	1
1,4-Difluorobenzene (Surr)	78		70 - 130			08/21/23 10:39	08/21/23 16:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/22/23 10:20	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.7	J	50.0	15.1 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.7	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/21/23 00:19	1
Diesel Range Organics (Over C10-C28)	22.0	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/21/23 00:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/18/23 18:11	08/21/23 00:19	1
Total TPH	47.7	J B	50.0	15.1 mg/Kg		08/18/23 18:11	08/21/23 00:19	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			08/18/23 18:11	08/21/23 00:19	1
o-Terphenyl	138	S1+	70 - 130			08/18/23 18:11	08/21/23 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	873		5.00	0.398 mg/Kg			08/19/23 15:54	1

Client Sample ID: HA-9

Lab Sample ID: 880-32303-53

Date Collected: 08/17/23 14:35

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000388 mg/Kg		08/21/23 10:39	08/21/23 16:51	1
Toluene	<0.000460	U	0.00200	0.000460 mg/Kg		08/21/23 10:39	08/21/23 16:51	1
Ethylbenzene	<0.000570	U	0.00200	0.000570 mg/Kg		08/21/23 10:39	08/21/23 16:51	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00102 mg/Kg		08/21/23 10:39	08/21/23 16:51	1
o-Xylene	0.000419	J	0.00200	0.000347 mg/Kg		08/21/23 10:39	08/21/23 16:51	1
Xylenes, Total	<0.00102	U	0.00200	0.00102 mg/Kg		08/21/23 10:39	08/21/23 16:51	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			08/21/23 10:39	08/21/23 16:51	1
1,4-Difluorobenzene (Surr)	88		70 - 130			08/21/23 10:39	08/21/23 16:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.00102 mg/Kg			08/22/23 10:20	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: HA-9

Lab Sample ID: 880-32303-53

Date Collected: 08/17/23 14:35

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.1		50.0	15.0 mg/Kg			08/21/23 14:40	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.1	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/21/23 00:40	1
Diesel Range Organics (Over C10-C28)	28.0	J B	50.0	15.0 mg/Kg		08/18/23 18:11	08/21/23 00:40	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/18/23 18:11	08/21/23 00:40	1
Total TPH	50.1	B	50.0	15.0 mg/Kg		08/18/23 18:11	08/21/23 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			08/18/23 18:11	08/21/23 00:40	1
o-Terphenyl	145	S1+	70 - 130			08/18/23 18:11	08/21/23 00:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		5.00	0.393 mg/Kg			08/19/23 16:16	1

Client Sample ID: GP-1

Lab Sample ID: 880-32303-55

Date Collected: 08/17/23 17:37

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 1 - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1760		5.00	1.98 mg/Kg			08/19/23 16:23	5

Client Sample ID: GP-1

Lab Sample ID: 880-32303-56

Date Collected: 08/17/23 17:39

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 2 - 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		5.00	1.99 mg/Kg			08/19/23 16:30	5

Client Sample ID: GP-1

Lab Sample ID: 880-32303-58

Date Collected: 08/17/23 18:00

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000383 mg/Kg		08/22/23 13:09	08/23/23 10:39	1
Toluene	<0.000454	U	0.00200	0.000454 mg/Kg		08/22/23 13:09	08/23/23 10:39	1
Ethylbenzene	<0.000563	U	0.00200	0.000563 mg/Kg		08/22/23 13:09	08/23/23 10:39	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/22/23 13:09	08/23/23 10:39	1
o-Xylene	<0.000343	U	0.00200	0.000343 mg/Kg		08/22/23 13:09	08/23/23 10:39	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/22/23 13:09	08/23/23 10:39	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-1

Lab Sample ID: 880-32303-58

Date Collected: 08/17/23 18:00

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 4 - 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	08/22/23 13:09	08/23/23 10:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/22/23 13:09	08/23/23 10:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.00101 mg/Kg			08/23/23 12:26	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.1	J	50.0	15.1 mg/Kg			08/23/23 11:00	1

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.8	J	50.0	15.1 mg/Kg		08/21/23 14:10	08/22/23 12:38	1
Diesel Range Organics (Over C10-C28)	15.3	J	50.0	15.1 mg/Kg		08/21/23 14:10	08/22/23 12:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1 mg/Kg		08/21/23 14:10	08/22/23 12:38	1
Total TPH	36.1	J	50.0	15.1 mg/Kg		08/21/23 14:10	08/22/23 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/21/23 14:10	08/22/23 12:38	1
o-Terphenyl	116		70 - 130	08/21/23 14:10	08/22/23 12:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14500		5.00	7.90 mg/Kg			08/21/23 14:29	20

Client Sample ID: GP-1

Lab Sample ID: 880-32303-61

Date Collected: 08/17/23 18:06

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 7 - 8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		5.00	0.394 mg/Kg			08/23/23 13:39	1

Client Sample ID: GP-1

Lab Sample ID: 880-32303-65

Date Collected: 08/17/23 18:26

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 11 - 12

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

Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000382 mg/Kg		08/21/23 10:39	08/21/23 19:00	1
Toluene	<0.000452	U	0.00200	0.000452 mg/Kg		08/21/23 10:39	08/21/23 19:00	1
Ethylbenzene	<0.000561	U	0.00200	0.000561 mg/Kg		08/21/23 10:39	08/21/23 19:00	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00100 mg/Kg		08/21/23 10:39	08/21/23 19:00	1
o-Xylene	<0.000341	U	0.00200	0.000341 mg/Kg		08/21/23 10:39	08/21/23 19:00	1
Xylenes, Total	<0.00100	U	0.00200	0.00100 mg/Kg		08/21/23 10:39	08/21/23 19:00	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-1

Lab Sample ID: 880-32303-65

Date Collected: 08/17/23 18:26

Matrix: Solid

Date Received: 08/18/23 15:56

Sample Depth: 11 - 12

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/21/23 10:39	08/21/23 19:00	1
1,4-Difluorobenzene (Surr)	82		70 - 130				08/21/23 10:39	08/21/23 19:00	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	Unit	D		Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.00100 mg/Kg				08/22/23 10:20	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	Unit	D		Prepared	Analyzed	Dil Fac
Total TPH	42.3	J	50.0	14.9 mg/Kg				08/21/23 14:40	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	Unit	D		Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.2	J B	50.0	14.9 mg/Kg			08/18/23 18:11	08/21/23 01:44	1
Diesel Range Organics (Over C10-C28)	23.1	J B	50.0	14.9 mg/Kg			08/18/23 18:11	08/21/23 01:44	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	14.9 mg/Kg			08/18/23 18:11	08/21/23 01:44	1
Total TPH	42.3	J B	50.0	14.9 mg/Kg			08/18/23 18:11	08/21/23 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				08/18/23 18:11	08/21/23 01:44	1
o-Terphenyl	162	S1+	70 - 130				08/18/23 18:11	08/21/23 01:44	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	Unit	D		Prepared	Analyzed	Dil Fac
Chloride	113		5.00	0.394 mg/Kg				08/19/23 16:37	1

Surrogate Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-32303-21	GP-5	102	103				
880-32303-21 MS	GP-5	95	84				
880-32303-21 MSD	GP-5	115	88				
880-32303-32	GP-5	114	102				
880-32303-37	GP-6	122	100				
880-32303-42	GP-6	114	103				
880-32303-43	GP-7	130	112				
880-32303-45	GP-7	115	98				
880-32303-46	HA-8	121	100				
880-32303-50	HA-8	111	115				
880-32303-51	HA-9	112	78				
880-32303-53	HA-9	111	88				
880-32303-58	GP-1	86	94				
880-32303-65	GP-1	117	82				
LCS 880-60677/1-A	Lab Control Sample	98	98				
LCS 880-60818/1-A	Lab Control Sample	87	95				
LCSD 880-60677/2-A	Lab Control Sample Dup	98	118				
LCSD 880-60818/2-A	Lab Control Sample Dup	99	86				
MB 880-60677/5-A	Method Blank	68 S1-	91				
MB 880-60732/5-A	Method Blank	99	119				
MB 880-60818/5-A	Method Blank	102	107				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-32303-21	GP-5	148 S1+	164 S1+				
880-32303-21 MS	GP-5	134 S1+	134 S1+				
880-32303-21 MSD	GP-5	155 S1+	150 S1+				
880-32303-32	GP-5	132 S1+	147 S1+				
880-32303-37	GP-6	142 S1+	154 S1+				
880-32303-42	GP-6	131 S1+	144 S1+				
880-32303-43	GP-7	137 S1+	145 S1+				
880-32303-45	GP-7	125	136 S1+				
880-32303-46	HA-8	123	136 S1+				
880-32303-50	HA-8	128	142 S1+				
880-32303-51	HA-9	125	138 S1+				
880-32303-53	HA-9	112	145 S1+				
880-32303-58	GP-1	130	116				
880-32303-65	GP-1	144 S1+	162 S1+				
LCS 880-60604/2-A	Lab Control Sample	104	116				
LCS 880-60741/2-A	Lab Control Sample	107	91				
LCSD 880-60604/3-A	Lab Control Sample Dup	128	143 S1+				
LCSD 880-60741/3-A	Lab Control Sample Dup	123	106				

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Surrogate Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-60604/1-A	Method Blank	137 S1+	155 S1+
MB 880-60741/1-A	Method Blank	187 S1+	168 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60677/5-A

Matrix: Solid

Analysis Batch: 60643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60677

Analyte	MB	MB	MQL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.000385	U	0.00200	0.000385 mg/Kg		08/21/23 10:39	08/21/23 12:15	1
Toluene	<0.000456	U	0.00200	0.000456 mg/Kg		08/21/23 10:39	08/21/23 12:15	1
Ethylbenzene	<0.000565	U	0.00200	0.000565 mg/Kg		08/21/23 10:39	08/21/23 12:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101 mg/Kg		08/21/23 10:39	08/21/23 12:15	1
o-Xylene	<0.000344	U	0.00200	0.000344 mg/Kg		08/21/23 10:39	08/21/23 12:15	1
Xylenes, Total	<0.00101	U	0.00200	0.00101 mg/Kg		08/21/23 10:39	08/21/23 12:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	08/21/23 10:39	08/21/23 12:15	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/21/23 10:39	08/21/23 12:15	1

Lab Sample ID: LCS 880-60677/1-A

Matrix: Solid

Analysis Batch: 60643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08736		mg/Kg		87	70 - 130
Toluene	0.100	0.08968		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08992		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08870		mg/Kg		89	70 - 130

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

Lab Sample ID: LCSD 880-60677/2-A

Matrix: Solid

Analysis Batch: 60643

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60677

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09978		mg/Kg		100	70 - 130	13	35
Toluene	0.100	0.09625		mg/Kg		96	70 - 130	7	35
Ethylbenzene	0.100	0.09968		mg/Kg		100	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2024		mg/Kg		101	70 - 130	11	35
o-Xylene	0.100	0.09817		mg/Kg		98	70 - 130	10	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-32303-21 MS

Matrix: Solid

Analysis Batch: 60643

Client Sample ID: GP-5

Prep Type: Total/NA

Prep Batch: 60677

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Benzene	<0.000381	U	0.0996	0.08648		mg/Kg		87	70 - 130
Toluene	<0.000451	U	0.0996	0.09397		mg/Kg		94	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Lab Sample ID: 880-32303-21 MS

Matrix: Solid

Analysis Batch: 60643

Client Sample ID: GP-5

Prep Type: Total/NA

Prep Batch: 60677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000559	U	0.0996	0.08940		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00100	U	0.199	0.1849		mg/Kg		93	70 - 130
o-Xylene	<0.000341	U	0.0996	0.08761		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-32303-21 MSD

Matrix: Solid

Analysis Batch: 60643

Client Sample ID: GP-5

Prep Type: Total/NA

Prep Batch: 60677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000381	U	0.0994	0.09971		mg/Kg		100	70 - 130	14	35
Toluene	<0.000451	U	0.0994	0.1090		mg/Kg		110	70 - 130	15	35
Ethylbenzene	<0.000559	U	0.0994	0.1054		mg/Kg		106	70 - 130	16	35
m-Xylene & p-Xylene	<0.00100	U	0.199	0.2144		mg/Kg		108	70 - 130	15	35
o-Xylene	<0.000341	U	0.0994	0.1060		mg/Kg		107	70 - 130	19	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-60732/5-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60732

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	08/21/23 12:45	08/22/23 16:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg	08/21/23 12:45	08/22/23 16:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	08/21/23 12:45	08/22/23 16:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	08/21/23 12:45	08/22/23 16:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	08/21/23 12:45	08/22/23 16:38	1
Xylenes, Total	<0.00101	U	0.00200	0.00101	mg/Kg	08/21/23 12:45	08/22/23 16:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/21/23 12:45	08/22/23 16:38	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/21/23 12:45	08/22/23 16:38	1

Lab Sample ID: MB 880-60818/5-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60818

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	08/22/23 13:09	08/23/23 04:15	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg	08/22/23 13:09	08/23/23 04:15	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	08/22/23 13:09	08/23/23 04:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	08/22/23 13:09	08/23/23 04:15	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Lab Sample ID: MB 880-60818/5-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60818

Analyte	MB	MB	MQL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	08/22/23 13:09	08/23/23 04:15	1
Xylenes, Total	<0.00101	U	0.00200	0.00101	mg/Kg	08/22/23 13:09	08/23/23 04:15	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	102		70 - 130	08/22/23 13:09	08/23/23 04:15	1		
1,4-Difluorobenzene (Surr)	107		70 - 130	08/22/23 13:09	08/23/23 04:15	1		

Lab Sample ID: LCS 880-60818/1-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60818

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Benzene			0.100	0.09278		mg/Kg		93	70 - 130		
Toluene			0.100	0.09141		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.09066		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1692		mg/Kg		85	70 - 130		
o-Xylene			0.100	0.07807		mg/Kg		78	70 - 130		

Lab Sample ID: LCSD 880-60818/2-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60818

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08368		mg/Kg		84	70 - 130	10	35
Toluene	0.100	0.08323		mg/Kg		83	70 - 130	9	35
Ethylbenzene	0.100	0.07555		mg/Kg		76	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.1427		mg/Kg		71	70 - 130	17	35
o-Xylene	0.100	0.07783		mg/Kg		78	70 - 130	0	35
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		70 - 130						
1,4-Difluorobenzene (Surr)	86		70 - 130						

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

Lab Sample ID: MB 880-60604/1-A

Matrix: Solid

Analysis Batch: 60630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60604

Analyte	MB	MB	MQL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	17.32	J	50.0	15.0	mg/Kg	08/18/23 18:11	08/20/23 19:33	1
Diesel Range Organics (Over C10-C28)	21.80	J	50.0	15.0	mg/Kg	08/18/23 18:11	08/20/23 19:33	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	08/18/23 18:11	08/20/23 19:33	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Lab Sample ID: MB 880-60604/1-A

Matrix: Solid

Analysis Batch: 60630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60604

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.12	J	50.0	15.0 mg/Kg		08/18/23 18:11	08/20/23 19:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			08/18/23 18:11	08/20/23 19:33	1
o-Terphenyl	155	S1+	70 - 130			08/18/23 18:11	08/20/23 19:33	1

Lab Sample ID: LCS 880-60604/2-A

Matrix: Solid

Analysis Batch: 60630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1056		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	104		70 - 130				
o-Terphenyl	116		70 - 130				

Lab Sample ID: LCSD 880-60604/3-A

Matrix: Solid

Analysis Batch: 60630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1024		mg/Kg		102	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	143	S1+	70 - 130						

Lab Sample ID: 880-32303-21 MS

Matrix: Solid

Analysis Batch: 60630

Client Sample ID: GP-5

Prep Type: Total/NA

Prep Batch: 60604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	33.7	J B F2	994	904.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	20.9	J B	994	1089		mg/Kg		107	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	134	S1+	70 - 130						
o-Terphenyl	134	S1+	70 - 130						

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Lab Sample ID: 880-32303-21 MSD

Matrix: Solid

Analysis Batch: 60630

Client Sample ID: GP-5

Prep Type: Total/NA

Prep Batch: 60604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	33.7	J B F2	994	1226	F2	mg/Kg		120	70 - 130	30	20
Diesel Range Organics (Over C10-C28)	20.9	J B	994	1247		mg/Kg		123	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	155	S1+	70 - 130								
o-Terphenyl	150	S1+	70 - 130								

Lab Sample ID: MB 880-60741/1-A

Matrix: Solid

Analysis Batch: 60776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60741

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0 mg/Kg		08/21/23 14:10	08/22/23 08:13	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0 mg/Kg		08/21/23 14:10	08/22/23 08:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0 mg/Kg		08/21/23 14:10	08/22/23 08:13	1
Total TPH	<15.0	U	50.0	15.0 mg/Kg		08/21/23 14:10	08/22/23 08:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130			08/21/23 14:10	08/22/23 08:13	1
o-Terphenyl	168	S1+	70 - 130			08/21/23 14:10	08/22/23 08:13	1

Lab Sample ID: LCS 880-60741/2-A

Matrix: Solid

Analysis Batch: 60776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	938.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	881.7		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	107		70 - 130				
o-Terphenyl	91		70 - 130				

Lab Sample ID: LCSD 880-60741/3-A

Matrix: Solid

Analysis Batch: 60776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60741

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1012		mg/Kg		101	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	995.8		mg/Kg		100	70 - 130	12	20

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Lab Sample ID: LCSD 880-60741/3-A

Matrix: Solid

Analysis Batch: 60776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60741

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60590/1-A

Matrix: Solid

Analysis Batch: 60668

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/20/23 00:50		1

Lab Sample ID: LCS 880-60590/2-A

Matrix: Solid

Analysis Batch: 60668

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	259.7		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-60590/3-A

Matrix: Solid

Analysis Batch: 60668

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	260.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-32303-1 MS

Matrix: Solid

Analysis Batch: 60668

Client Sample ID: BG-1

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2560	F1	1250	3944	F1	mg/Kg		111	90 - 110	

Lab Sample ID: 880-32303-1 MSD

Matrix: Solid

Analysis Batch: 60668

Client Sample ID: BG-1

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2560	F1	1250	3968	F1	mg/Kg		113	90 - 110	1	20

Lab Sample ID: 880-32303-11 MS

Matrix: Solid

Analysis Batch: 60668

Client Sample ID: BG-1

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	238		250	489.3		mg/Kg		100	90 - 110	

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-32303-11 MSD

Matrix: Solid

Analysis Batch: 60668

Client Sample ID: BG-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	238		250	488.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-60591/1-A

Matrix: Solid

Analysis Batch: 60675

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/19/23 14:50	1

Lab Sample ID: LCS 880-60591/2-A

Matrix: Solid

Analysis Batch: 60675

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-60591/3-A

Matrix: Solid

Analysis Batch: 60675

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-32303-43 MS

Matrix: Solid

Analysis Batch: 60675

Client Sample ID: GP-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	56.3		252	314.9		mg/Kg		103	90 - 110

Lab Sample ID: 880-32303-43 MSD

Matrix: Solid

Analysis Batch: 60675

Client Sample ID: GP-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	56.3		252	315.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-60724/1-A

Matrix: Solid

Analysis Batch: 60729

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/21/23 12:56	1

Lab Sample ID: LCS 880-60724/2-A

Matrix: Solid

Analysis Batch: 60729

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.7		mg/Kg		101	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-60724/3-A

Matrix: Solid

Analysis Batch: 60729

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.2		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-60841/1-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395 mg/Kg			08/23/23 08:48	1

Lab Sample ID: LCS 880-60841/2-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-60841/3-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-32303-19 MS

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: GP-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	309	F1	251	523.0	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-32303-19 MSD

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: GP-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	309	F1	251	518.1	F1	mg/Kg		84	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

GC VOA

Analysis Batch: 60643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-21	GP-5	Total/NA	Solid	8021B	60677
880-32303-32	GP-5	Total/NA	Solid	8021B	60677
880-32303-37	GP-6	Total/NA	Solid	8021B	60677
880-32303-42	GP-6	Total/NA	Solid	8021B	60677
880-32303-43	GP-7	Total/NA	Solid	8021B	60677
880-32303-45	GP-7	Total/NA	Solid	8021B	60677
880-32303-46	HA-8	Total/NA	Solid	8021B	60677
880-32303-50	HA-8	Total/NA	Solid	8021B	60677
880-32303-51	HA-9	Total/NA	Solid	8021B	60677
880-32303-53	HA-9	Total/NA	Solid	8021B	60677
880-32303-65	GP-1	Total/NA	Solid	8021B	60677
MB 880-60677/5-A	Method Blank	Total/NA	Solid	8021B	60677
LCS 880-60677/1-A	Lab Control Sample	Total/NA	Solid	8021B	60677
LCSD 880-60677/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60677
880-32303-21 MS	GP-5	Total/NA	Solid	8021B	60677
880-32303-21 MSD	GP-5	Total/NA	Solid	8021B	60677

Prep Batch: 60677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-21	GP-5	Total/NA	Solid	5035	
880-32303-32	GP-5	Total/NA	Solid	5035	
880-32303-37	GP-6	Total/NA	Solid	5035	
880-32303-42	GP-6	Total/NA	Solid	5035	
880-32303-43	GP-7	Total/NA	Solid	5035	
880-32303-45	GP-7	Total/NA	Solid	5035	
880-32303-46	HA-8	Total/NA	Solid	5035	
880-32303-50	HA-8	Total/NA	Solid	5035	
880-32303-51	HA-9	Total/NA	Solid	5035	
880-32303-53	HA-9	Total/NA	Solid	5035	
880-32303-65	GP-1	Total/NA	Solid	5035	
MB 880-60677/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60677/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60677/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32303-21 MS	GP-5	Total/NA	Solid	5035	
880-32303-21 MSD	GP-5	Total/NA	Solid	5035	

Prep Batch: 60732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60732/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 60782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-58	GP-1	Total/NA	Solid	8021B	60818
MB 880-60732/5-A	Method Blank	Total/NA	Solid	8021B	60732
MB 880-60818/5-A	Method Blank	Total/NA	Solid	8021B	60818
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	8021B	60818
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60818

Analysis Batch: 60798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-21	GP-5	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

GC VOA (Continued)

Analysis Batch: 60798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-32	GP-5	Total/NA	Solid	Total BTEX	
880-32303-37	GP-6	Total/NA	Solid	Total BTEX	
880-32303-42	GP-6	Total/NA	Solid	Total BTEX	
880-32303-43	GP-7	Total/NA	Solid	Total BTEX	
880-32303-45	GP-7	Total/NA	Solid	Total BTEX	
880-32303-46	HA-8	Total/NA	Solid	Total BTEX	
880-32303-50	HA-8	Total/NA	Solid	Total BTEX	
880-32303-51	HA-9	Total/NA	Solid	Total BTEX	
880-32303-53	HA-9	Total/NA	Solid	Total BTEX	
880-32303-58	GP-1	Total/NA	Solid	Total BTEX	
880-32303-65	GP-1	Total/NA	Solid	Total BTEX	

Prep Batch: 60818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-58	GP-1	Total/NA	Solid	5035	
MB 880-60818/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 60604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-21	GP-5	Total/NA	Solid	8015NM Prep	
880-32303-32	GP-5	Total/NA	Solid	8015NM Prep	
880-32303-37	GP-6	Total/NA	Solid	8015NM Prep	
880-32303-42	GP-6	Total/NA	Solid	8015NM Prep	
880-32303-43	GP-7	Total/NA	Solid	8015NM Prep	
880-32303-45	GP-7	Total/NA	Solid	8015NM Prep	
880-32303-46	HA-8	Total/NA	Solid	8015NM Prep	
880-32303-50	HA-8	Total/NA	Solid	8015NM Prep	
880-32303-51	HA-9	Total/NA	Solid	8015NM Prep	
880-32303-53	HA-9	Total/NA	Solid	8015NM Prep	
880-32303-65	GP-1	Total/NA	Solid	8015NM Prep	
MB 880-60604/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60604/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32303-21 MS	GP-5	Total/NA	Solid	8015NM Prep	
880-32303-21 MSD	GP-5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-21	GP-5	Total/NA	Solid	8015B NM	60604
880-32303-32	GP-5	Total/NA	Solid	8015B NM	60604
880-32303-37	GP-6	Total/NA	Solid	8015B NM	60604
880-32303-42	GP-6	Total/NA	Solid	8015B NM	60604
880-32303-43	GP-7	Total/NA	Solid	8015B NM	60604
880-32303-45	GP-7	Total/NA	Solid	8015B NM	60604
880-32303-46	HA-8	Total/NA	Solid	8015B NM	60604
880-32303-50	HA-8	Total/NA	Solid	8015B NM	60604
880-32303-51	HA-9	Total/NA	Solid	8015B NM	60604

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

GC Semi VOA (Continued)

Analysis Batch: 60630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-53	HA-9	Total/NA	Solid	8015B NM	60604
880-32303-65	GP-1	Total/NA	Solid	8015B NM	60604
MB 880-60604/1-A	Method Blank	Total/NA	Solid	8015B NM	60604
LCS 880-60604/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60604
LCSD 880-60604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60604
880-32303-21 MS	GP-5	Total/NA	Solid	8015B NM	60604
880-32303-21 MSD	GP-5	Total/NA	Solid	8015B NM	60604

Prep Batch: 60741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-58	GP-1	Total/NA	Solid	8015NM Prep	
MB 880-60741/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60741/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-21	GP-5	Total/NA	Solid	8015 NM	
880-32303-32	GP-5	Total/NA	Solid	8015 NM	
880-32303-37	GP-6	Total/NA	Solid	8015 NM	
880-32303-42	GP-6	Total/NA	Solid	8015 NM	
880-32303-43	GP-7	Total/NA	Solid	8015 NM	
880-32303-45	GP-7	Total/NA	Solid	8015 NM	
880-32303-46	HA-8	Total/NA	Solid	8015 NM	
880-32303-50	HA-8	Total/NA	Solid	8015 NM	
880-32303-51	HA-9	Total/NA	Solid	8015 NM	
880-32303-53	HA-9	Total/NA	Solid	8015 NM	
880-32303-58	GP-1	Total/NA	Solid	8015 NM	
880-32303-65	GP-1	Total/NA	Solid	8015 NM	

Analysis Batch: 60776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-58	GP-1	Total/NA	Solid	8015B NM	60741
MB 880-60741/1-A	Method Blank	Total/NA	Solid	8015B NM	60741
LCS 880-60741/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60741
LCSD 880-60741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60741

HPLC/IC

Leach Batch: 60590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-1	BG-1	Soluble	Solid	DI Leach	
880-32303-2	BG-1	Soluble	Solid	DI Leach	
880-32303-3	BG-1	Soluble	Solid	DI Leach	
880-32303-4	BG-1	Soluble	Solid	DI Leach	
880-32303-5	BG-1	Soluble	Solid	DI Leach	
880-32303-6	BG-1	Soluble	Solid	DI Leach	
880-32303-7	BG-1	Soluble	Solid	DI Leach	
880-32303-8	BG-1	Soluble	Solid	DI Leach	
880-32303-9	BG-1	Soluble	Solid	DI Leach	
880-32303-10	BG-1	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

HPLC/IC (Continued)

Leach Batch: 60590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-11	BG-1	Soluble	Solid	DI Leach	
880-32303-12	BG-1	Soluble	Solid	DI Leach	
880-32303-13	BG-2	Soluble	Solid	DI Leach	
880-32303-14	BG-2	Soluble	Solid	DI Leach	
880-32303-15	BG-2	Soluble	Solid	DI Leach	
880-32303-16	BG-2	Soluble	Solid	DI Leach	
880-32303-21	GP-5	Soluble	Solid	DI Leach	
880-32303-32	GP-5	Soluble	Solid	DI Leach	
880-32303-37	GP-6	Soluble	Solid	DI Leach	
880-32303-42	GP-6	Soluble	Solid	DI Leach	
MB 880-60590/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60590/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60590/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32303-1 MS	BG-1	Soluble	Solid	DI Leach	
880-32303-1 MSD	BG-1	Soluble	Solid	DI Leach	
880-32303-11 MS	BG-1	Soluble	Solid	DI Leach	
880-32303-11 MSD	BG-1	Soluble	Solid	DI Leach	

Leach Batch: 60591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-43	GP-7	Soluble	Solid	DI Leach	
880-32303-45	GP-7	Soluble	Solid	DI Leach	
880-32303-46	HA-8	Soluble	Solid	DI Leach	
880-32303-50	HA-8	Soluble	Solid	DI Leach	
880-32303-51	HA-9	Soluble	Solid	DI Leach	
880-32303-53	HA-9	Soluble	Solid	DI Leach	
880-32303-55	GP-1	Soluble	Solid	DI Leach	
880-32303-56	GP-1	Soluble	Solid	DI Leach	
880-32303-65	GP-1	Soluble	Solid	DI Leach	
MB 880-60591/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60591/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60591/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32303-43 MS	GP-7	Soluble	Solid	DI Leach	
880-32303-43 MSD	GP-7	Soluble	Solid	DI Leach	

Analysis Batch: 60668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-1	BG-1	Soluble	Solid	300.0	60590
880-32303-2	BG-1	Soluble	Solid	300.0	60590
880-32303-3	BG-1	Soluble	Solid	300.0	60590
880-32303-4	BG-1	Soluble	Solid	300.0	60590
880-32303-5	BG-1	Soluble	Solid	300.0	60590
880-32303-6	BG-1	Soluble	Solid	300.0	60590
880-32303-7	BG-1	Soluble	Solid	300.0	60590
880-32303-8	BG-1	Soluble	Solid	300.0	60590
880-32303-9	BG-1	Soluble	Solid	300.0	60590
880-32303-10	BG-1	Soluble	Solid	300.0	60590
880-32303-11	BG-1	Soluble	Solid	300.0	60590
880-32303-12	BG-1	Soluble	Solid	300.0	60590
880-32303-13	BG-2	Soluble	Solid	300.0	60590
880-32303-14	BG-2	Soluble	Solid	300.0	60590

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

HPLC/IC (Continued)

Analysis Batch: 60668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-15	BG-2	Soluble	Solid	300.0	60590
880-32303-16	BG-2	Soluble	Solid	300.0	60590
880-32303-21	GP-5	Soluble	Solid	300.0	60590
880-32303-32	GP-5	Soluble	Solid	300.0	60590
880-32303-37	GP-6	Soluble	Solid	300.0	60590
880-32303-42	GP-6	Soluble	Solid	300.0	60590
MB 880-60590/1-A	Method Blank	Soluble	Solid	300.0	60590
LCS 880-60590/2-A	Lab Control Sample	Soluble	Solid	300.0	60590
LCSD 880-60590/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60590
880-32303-1 MS	BG-1	Soluble	Solid	300.0	60590
880-32303-1 MSD	BG-1	Soluble	Solid	300.0	60590
880-32303-11 MS	BG-1	Soluble	Solid	300.0	60590
880-32303-11 MSD	BG-1	Soluble	Solid	300.0	60590

Analysis Batch: 60675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-43	GP-7	Soluble	Solid	300.0	60591
880-32303-45	GP-7	Soluble	Solid	300.0	60591
880-32303-46	HA-8	Soluble	Solid	300.0	60591
880-32303-50	HA-8	Soluble	Solid	300.0	60591
880-32303-51	HA-9	Soluble	Solid	300.0	60591
880-32303-53	HA-9	Soluble	Solid	300.0	60591
880-32303-55	GP-1	Soluble	Solid	300.0	60591
880-32303-56	GP-1	Soluble	Solid	300.0	60591
880-32303-65	GP-1	Soluble	Solid	300.0	60591
MB 880-60591/1-A	Method Blank	Soluble	Solid	300.0	60591
LCS 880-60591/2-A	Lab Control Sample	Soluble	Solid	300.0	60591
LCSD 880-60591/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60591
880-32303-43 MS	GP-7	Soluble	Solid	300.0	60591
880-32303-43 MSD	GP-7	Soluble	Solid	300.0	60591

Leach Batch: 60724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-58	GP-1	Soluble	Solid	DI Leach	
MB 880-60724/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60724/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60724/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 60729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-58	GP-1	Soluble	Solid	300.0	60724
MB 880-60724/1-A	Method Blank	Soluble	Solid	300.0	60724
LCS 880-60724/2-A	Lab Control Sample	Soluble	Solid	300.0	60724
LCSD 880-60724/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60724

Leach Batch: 60841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-19	GP-5	Soluble	Solid	DI Leach	
880-32303-34	GP-6	Soluble	Solid	DI Leach	
880-32303-48	HA-8	Soluble	Solid	DI Leach	
880-32303-61	GP-1	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

HPLC/IC (Continued)

Leach Batch: 60841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60841/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60841/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60841/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32303-19 MS	GP-5	Soluble	Solid	DI Leach	
880-32303-19 MSD	GP-5	Soluble	Solid	DI Leach	

Analysis Batch: 60882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32303-19	GP-5	Soluble	Solid	300.0	60841
880-32303-34	GP-6	Soluble	Solid	300.0	60841
880-32303-48	HA-8	Soluble	Solid	300.0	60841
880-32303-61	GP-1	Soluble	Solid	300.0	60841
MB 880-60841/1-A	Method Blank	Soluble	Solid	300.0	60841
LCS 880-60841/2-A	Lab Control Sample	Soluble	Solid	300.0	60841
LCSD 880-60841/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60841
880-32303-19 MS	GP-5	Soluble	Solid	300.0	60841
880-32303-19 MSD	GP-5	Soluble	Solid	300.0	60841

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: BG-1
Date Collected: 08/17/23 18:55
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		5	60668	CH	EET MID	08/20/23 01:10

Client Sample ID: BG-1
Date Collected: 08/17/23 18:57
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 01:30

Client Sample ID: BG-1
Date Collected: 08/17/23 18:59
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		5	60668	CH	EET MID	08/20/23 01:36

Client Sample ID: BG-1
Date Collected: 08/17/23 19:01
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		5	60668	CH	EET MID	08/20/23 01:43

Client Sample ID: BG-1
Date Collected: 08/17/23 19:04
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		5	60668	CH	EET MID	08/20/23 01:50

Client Sample ID: BG-1
Date Collected: 08/17/23 19:06
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 02:10

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: BG-1

Lab Sample ID: 880-32303-7

Date Collected: 08/17/23 19:08

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		10	60668	CH	EET MID	08/20/23 02:16

Client Sample ID: BG-1

Lab Sample ID: 880-32303-8

Date Collected: 08/17/23 19:10

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		10	60668	CH	EET MID	08/20/23 02:23

Client Sample ID: BG-1

Lab Sample ID: 880-32303-9

Date Collected: 08/17/23 19:12

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		5	60668	CH	EET MID	08/20/23 02:29

Client Sample ID: BG-1

Lab Sample ID: 880-32303-10

Date Collected: 08/17/23 19:14

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 02:36

Client Sample ID: BG-1

Lab Sample ID: 880-32303-11

Date Collected: 08/17/23 19:16

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 02:43

Client Sample ID: BG-1

Lab Sample ID: 880-32303-12

Date Collected: 08/17/23 19:18

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 03:02

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: BG-2
Date Collected: 08/17/23 14:56
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 03:09

Client Sample ID: BG-2
Date Collected: 08/17/23 15:10
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 03:29

Client Sample ID: BG-2
Date Collected: 08/17/23 15:20
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 03:36

Client Sample ID: BG-2
Date Collected: 08/17/23 15:30
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		5	60668	CH	EET MID	08/20/23 03:42

Client Sample ID: GP-5
Date Collected: 08/17/23 08:44
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60841	CH	EET MID	08/23/23 11:00
Soluble	Analysis	300.0		1	60882	CH	EET MID	08/23/23 12:41

Client Sample ID: GP-5
Date Collected: 08/17/23 08:50
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 12:41
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 20:41

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-5
Date Collected: 08/17/23 08:50
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 03:49

Client Sample ID: GP-5
Date Collected: 08/17/23 10:05
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 13:07
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 21:49
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 03:56

Client Sample ID: GP-6
Date Collected: 08/17/23 10:57
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60841	CH	EET MID	08/23/23 11:00
Soluble	Analysis	300.0		5	60882	CH	EET MID	08/23/23 13:16

Client Sample ID: GP-6
Date Collected: 08/17/23 11:11
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 13:33
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 22:11
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 04:02

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-6
Date Collected: 08/17/23 11:42
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 13:59
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 22:33
Soluble	Leach	DI Leach			60590	SMC	EET MID	08/18/23 16:42
Soluble	Analysis	300.0		1	60668	CH	EET MID	08/20/23 04:09

Client Sample ID: GP-7
Date Collected: 08/17/23 12:15
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 14:25
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 22:54
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		1	60675	CH	EET MID	08/19/23 15:11

Client Sample ID: GP-7
Date Collected: 08/17/23 12:19
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 14:50
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 23:15
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		1	60675	CH	EET MID	08/19/23 15:33

Client Sample ID: HA-8
Date Collected: 08/17/23 12:50
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 15:16
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: HA-8

Lab Sample ID: 880-32303-46

Date Collected: 08/17/23 12:50

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 23:36
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		1	60675	CH	EET MID	08/19/23 15:40

Client Sample ID: HA-8

Lab Sample ID: 880-32303-48

Date Collected: 08/17/23 12:55

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60841	CH	EET MID	08/23/23 11:00
Soluble	Analysis	300.0		1	60882	CH	EET MID	08/23/23 13:22

Client Sample ID: HA-8

Lab Sample ID: 880-32303-50

Date Collected: 08/17/23 13:17

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 16:00
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/20/23 23:58
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		1	60675	CH	EET MID	08/19/23 15:47

Client Sample ID: HA-9

Lab Sample ID: 880-32303-51

Date Collected: 08/17/23 14:27

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 16:26
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/21/23 00:19
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		1	60675	CH	EET MID	08/19/23 15:54

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: HA-9
Date Collected: 08/17/23 14:35
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 16:51
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/21/23 00:40
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		1	60675	CH	EET MID	08/19/23 16:16

Client Sample ID: GP-1
Date Collected: 08/17/23 17:37
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		5	60675	CH	EET MID	08/19/23 16:23

Client Sample ID: GP-1
Date Collected: 08/17/23 17:39
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		5	60675	CH	EET MID	08/19/23 16:30

Client Sample ID: GP-1
Date Collected: 08/17/23 18:00
Date Received: 08/18/23 15:56

Lab Sample ID: 880-32303-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60818	EL	EET MID	08/22/23 13:09
Total/NA	Analysis	8021B		1	60782	AJ	EET MID	08/23/23 10:39
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/23/23 12:26
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/23/23 11:00
Total/NA	Prep	8015NM Prep			60741	TKC	EET MID	08/21/23 14:10
Total/NA	Analysis	8015B NM		1	60776	SM	EET MID	08/22/23 12:38
Soluble	Leach	DI Leach			60724	SMC	EET MID	08/21/23 12:15
Soluble	Analysis	300.0		20	60729	SMC	EET MID	08/21/23 14:29

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Client Sample ID: GP-1

Lab Sample ID: 880-32303-61

Date Collected: 08/17/23 18:06

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			60841	CH	EET MID	08/23/23 11:00
Soluble	Analysis	300.0		1	60882	CH	EET MID	08/23/23 13:39

Client Sample ID: GP-1

Lab Sample ID: 880-32303-65

Date Collected: 08/17/23 18:26

Matrix: Solid

Date Received: 08/18/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			60677	EL	EET MID	08/21/23 10:39
Total/NA	Analysis	8021B		1	60643	SM	EET MID	08/21/23 19:00
Total/NA	Analysis	Total BTEX		1	60798	SM	EET MID	08/22/23 10:20
Total/NA	Analysis	8015 NM		1	60747	SM	EET MID	08/21/23 14:40
Total/NA	Prep	8015NM Prep			60604	TKC	EET MID	08/18/23 18:11
Total/NA	Analysis	8015B NM		1	60630	SM	EET MID	08/21/23 01:44
Soluble	Leach	DI Leach			60591	SMC	EET MID	08/18/23 16:45
Soluble	Analysis	300.0		1	60675	CH	EET MID	08/19/23 16:37

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

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

Method Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-32303-1
SDG: Lea Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-32303-1	BG-1	Solid	08/17/23 18:55	08/18/23 15:56	0 - 1
880-32303-2	BG-1	Solid	08/17/23 18:57	08/18/23 15:56	1 - 2
880-32303-3	BG-1	Solid	08/17/23 18:59	08/18/23 15:56	2 - 3
880-32303-4	BG-1	Solid	08/17/23 19:01	08/18/23 15:56	3 - 4
880-32303-5	BG-1	Solid	08/17/23 19:04	08/18/23 15:56	4 - 5
880-32303-6	BG-1	Solid	08/17/23 19:06	08/18/23 15:56	5 - 6
880-32303-7	BG-1	Solid	08/17/23 19:08	08/18/23 15:56	6 - 7
880-32303-8	BG-1	Solid	08/17/23 19:10	08/18/23 15:56	7 - 8
880-32303-9	BG-1	Solid	08/17/23 19:12	08/18/23 15:56	8 - 9
880-32303-10	BG-1	Solid	08/17/23 19:14	08/18/23 15:56	9 - 10
880-32303-11	BG-1	Solid	08/17/23 19:16	08/18/23 15:56	10 - 11
880-32303-12	BG-1	Solid	08/17/23 19:18	08/18/23 15:56	11 - 12
880-32303-13	BG-2	Solid	08/17/23 14:56	08/18/23 15:56	0 - 1
880-32303-14	BG-2	Solid	08/17/23 15:10	08/18/23 15:56	1 - 2
880-32303-15	BG-2	Solid	08/17/23 15:20	08/18/23 15:56	2 - 3
880-32303-16	BG-2	Solid	08/17/23 15:30	08/18/23 15:56	3 - 4
880-32303-19	GP-5	Solid	08/17/23 08:44	08/18/23 15:56	2 - 3
880-32303-21	GP-5	Solid	08/17/23 08:50	08/18/23 15:56	4 - 5
880-32303-32	GP-5	Solid	08/17/23 10:05	08/18/23 15:56	15 - 16
880-32303-34	GP-6	Solid	08/17/23 10:57	08/18/23 15:56	1 - 2
880-32303-37	GP-6	Solid	08/17/23 11:11	08/18/23 15:56	4 - 5
880-32303-42	GP-6	Solid	08/17/23 11:42	08/18/23 15:56	9 - 10
880-32303-43	GP-7	Solid	08/17/23 12:15	08/18/23 15:56	0 - 1
880-32303-45	GP-7	Solid	08/17/23 12:19	08/18/23 15:56	2 - 3
880-32303-46	HA-8	Solid	08/17/23 12:50	08/18/23 15:56	0 - 1
880-32303-48	HA-8	Solid	08/17/23 12:55	08/18/23 15:56	2 - 3
880-32303-50	HA-8	Solid	08/17/23 13:17	08/18/23 15:56	4 - 5
880-32303-51	HA-9	Solid	08/17/23 14:27	08/18/23 15:56	0 - 1
880-32303-53	HA-9	Solid	08/17/23 14:35	08/18/23 15:56	2 - 3
880-32303-55	GP-1	Solid	08/17/23 17:37	08/18/23 15:56	1 - 2
880-32303-56	GP-1	Solid	08/17/23 17:39	08/18/23 15:56	2 - 3
880-32303-58	GP-1	Solid	08/17/23 18:00	08/18/23 15:56	4 - 5
880-32303-61	GP-1	Solid	08/17/23 18:06	08/18/23 15:56	7 - 8
880-32303-65	GP-1	Solid	08/17/23 18:26	08/18/23 15:56	11 - 12



Environment Testing
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880-32303 Chain of Custody

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marientfeld Street, Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjenning@ensolum.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	NexGen Produced Water Release	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	03B2359002	Due Date:	24 Hrs		
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Beaux Jennings				
PO #:	03B2359002				
SAMPLE RECEIPT					
Samples Received Intact:	Yes ☒ No ☐	Temp Blank:	Yes ☒ No ☐	Well Ice:	Yes ☒ No ☐
Cooler Custody Seals:	Yes ☐ No ☒ MA	Thermometer ID:			
Sample Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:			
Total Containers:		Temperature Reading:			
		Corrected Temperature:			
Parameters					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
BG-1	S	8/17/2023	1855	0-1'	Grab
BG-1	S	8/17/2023	1857	1-2'	Grab
BG-1	S	8/17/2023	1859	2-3'	Grab
BG-1	S	8/17/2023	1901	3-4'	Grab
BG-1	S	8/17/2023	1904	4-5'	Grab
BG-1	S	8/17/2023	1906	5-6'	Grab
BG-1	S	8/17/2023	1908	6-7'	Grab
BG-1	S	8/17/2023	1910	7-8'	Grab
BG-1	S	8/17/2023	1912	8-9'	Grab
BG-1	S	8/17/2023	1914	9-10'	Grab
BTEX 8021B					
TPH 8015M					
CHLORIDES					
HOLD					
ANALYSIS REQUEST					
Preservative Codes					
None: NO					
Cool: Cool					
HCL: HC					
H ₂ SO ₄ : H ₂					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAPC					
Sample Comments					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		8/18/23			
		1504			



Environment Testing

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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No.: _____

Page 2 of 7

Project Manager:	Beaux Jennings		Bill to: (if different)	
Company Name:	Ensolum, LLC		Company Name:	
Address:	601 N. Marienfeld Street, Suite 400		Address:	
City, State ZIP:	Midland, TX 79701		City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com	

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting: Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other: _____

Project Name:		NexGen Produced Water Release		Turn Around				ANALYSIS REQUEST		Preservative Codes		
Project Number:	03B2359002	☐ Routine ☒ Rush								None: NO DI Water: H ₂ O		
Project Location:	Lea Co. NM	Due Date:		24 Hrs						Cool: Cool MeOH: Me		
Sampler's Name:	Beaux Jennings	TAT starts the day received by the lab, if received by 4:30pm								HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na		
PO #:	03B2359002										H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
SAMPLE RECEIPT		Temp Blank:	Yes	No	Yes	No	Thermometer ID:					
Samples Received Intact:	Yes	No					Correction Factor:					
Cooler Custody Seals:	Yes	No	N/A				Temperature Reading:					
Sample Custody Seals:	Yes	No	N/A				Corrected Temperature:					
Total Containers:												
Parameters												
Pres. Code												
021B												
15M												
IDES												

[illegible]

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

Noted: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno.

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		5/18/03			



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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marientfield Street, Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	NexGen Produced Water Release	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	03B2359002	Due Date:	24 Hrs		
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Beaux Jennings				
PO #:	03B2359002				
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received In tact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
GP-5	S	8/17/2023	0850	4-5'	Grab	1	BTEX 8021B		None: NO DI Water: H ₂ O
GP-5	S	8/17/2023	0852	5-6'	Grab	1	TPH 8015M		Cool: Cool MeOH: Me
GP-5	S	8/17/2023	0854	6-7'	Grab	1	CHLORIDES		HCL: HC HNO ₃ : HN
GP-5	S	8/17/2023	0856	7-8'	Grab	1	HOLD		H ₂ SO ₄ : H ₂ NaOH: Na
GP-5	S	8/17/2023	0915	8-9'	Grab	1			H ₃ PO ₄ : HP NaHSO ₄ : NABIS
GP-5	S	8/17/2023	0917	9-10'	Grab	1			Na ₂ S ₂ O ₃ : NaSO ₃
GP-5	S	8/17/2023	0930	10-11'	Grab	1			Zn Acetate+NaOH: Zn
GP-5	S	8/17/2023	0932	11-12'	Grab	1			NaOH+Ascorbic Acid: SAPC
GP-5	S	8/17/2023	0958	12-13'	Grab	1			
GP-5	S	8/17/2023	1000	13-14'	Grab	1			

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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		8/18/23			



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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marientfield Street, Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	NexGen Produced Water Release	Turn Around	☐ Routine ☒ Rush	Press. Code	
Project Number:	03B2359002	Due Date:	24 Hrs		
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Beaux Jennings				
PO #:	03B2359002				
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No			
Samples Received Intact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont											Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TC1P / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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		8/18/23			



Environment Testing
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 382-7550, Carlsbad, NM (575) 886-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 5 of 7

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marlenfeld Street, Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	NextGen Produced Water Release	Turn Around	☐ Routine ☒ Rush	Pres. Code		
Project Number:	03B2359002	Due Date:	24 Hrs			
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm				
Sampler's Name:	Beaux Jennings					
PO #:	03B2359002					
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Samples Received Intact:	Yes	No	Thermometer ID:			
Cooler Custody Seals:	Yes	No	Correction Factor:			
Sample Custody Seals:	Yes	No	Temperature Reading:			
Total Containers:		Corrected Temperature:				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes
							BTEX 8021B	None: NO
							TPH 8015M	DI Water: H ₂ O
							CHLORIDES	Cool: Cool
							HOLD	MeOH: Me
								HCL: HC
								H ₂ SO ₄ : H ₂
								H ₃ PO ₄ : HP
								NaHSO ₄ : NABIS
								Na ₂ S ₂ O ₃ : NaSO ₃
								Zn Acetate+NaOH: Zn
								NaOH+Ascorbic Acid: SARC

GP-6	S	8/17/2023	1142	9-10'	Grab	1	X	X	X										
GP-7	S	8/17/2023	1215	0-1'	Grab	1	X	X	X										
GP-7	S	8/17/2023	1217	1-2'	Grab	1				X									
GP-7	S	8/17/2023	1219	2-3'	Grab	1	X	X	X										
HA-8	S	8/17/2023	1250	0-1'	Grab	1	X	X	X										
HA-8	S	8/17/2023	1252	1-2'	Grab	1				X									
HA-8	S	8/17/2023	1255	2-3'	Grab	1				X									
HA-8	S	8/17/2023	1315	3-4'	Grab	1					X								
HA-8	S	8/17/2023	1317	4-5'	Grab	1	X	X	X										
HA-9	S	8/17/2023	1427	0-1'	Grab	1	X	X	X										

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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		8/18/23			



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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

Page 6 of 7

Project Manager:	Beaux Jennings		Bill to: (if different)	
Company Name:	Ensolum, LLC		Company Name:	
Address:	601 N. Marientfeld Street, Suite 400		Address:	
City, State ZIP:	Midland, TX 79701		City, State ZIP:	
Phone:	210-219-8858		Email:	bjennings@ensolum.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:	
Reporting: Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDO	☐ ADAPT ☐ Other: _____

Project Name:		NexGen Produced Water Release		Turn Around		ANALYSIS REQUEST										Preservative Codes							
Project Number:		03B2359002		☐ Routine ☒ Rush												None: NO DI Water: H ₂ O							
Project Location:		Lea Co. NM		Due Date:		24 Hrs												Cool: Cool MeOH: Me					
Sampler's Name:		Beaux Jennings				TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN NaOH: Na					
PO #:		03B2359002																H ₂ SO ₄ : H ₂					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No												H ₃ PO ₄ : HP			
Samples Received Intact:		Yes No		Thermometer ID:																NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes No N/A		Temperature Reading:																Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAsPC			

[illegible]

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

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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

Page 7 of 7

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marienfeld Street, Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RCRC ☐ Superfund ☐
State of Project:	
Reporting: Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other:

Project Name:	NextGen Produced Water Release	Turn Around			ANALYSIS REQUEST										Preservative Codes			
Project Number:	03B2359002	☐ Routine	☒ Rush													None: NO	DI Water: H ₂ O	
Project Location:	Lea Co. NM	Due Date:		24 Hrs												Cool: Cool	MeOH: Me	
Sampler's Name:	Beaux Jennings	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN	
PO #:	03B2359002															H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Wet Ice:	Yes	No								H ₃ PO ₄ : HP		
	Samples Received Intact:	Yes	No	Thermometer ID:												NaHSO ₄ : NABIS		
	Cooler Custody Seals:	Yes	No	Correction Factor:												Na ₂ S ₂ O ₃ : NaSO ₃		
	Sample Custody Seals:	Yes	No	N/A	Temperature Reading:											Zn Acetate+NaOH: Zn		
	Total Containers:			Corrected Temperature:												NaOH+Ascorbic Acid: SAPC		

[illegible]

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

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		8/18/23			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-32303-1

SDG Number: Lea Co NM

Login Number: 32303

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/25/2024 11:59:41 AM

JOB DESCRIPTION

NexGen Produced Water Release
Lea County, New Mexico

JOB NUMBER

880-40965-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



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

Client: Ensolum
Project/Site: NexGen Produced Water Release

Laboratory Job ID: 880-40965-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Ensolum
Project: NexGen Produced Water Release

Job ID: 880-40965-1

Job ID: 880-40965-1

Eurofins Midland

Job Narrative 880-40965-1

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

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

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

Receipt

The samples were received on 3/15/2024 3:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS-1 (880-40965-1), FS-2 (880-40965-2), FS-3 (880-40965-3), FS-4 (880-40965-4), FS-5 (880-40965-5), FS-6 (880-40965-6), FS-7 (880-40965-7), FS-8 (880-40965-8), FS-9 (880-40965-9), FS-10 (880-40965-10), FS-11 (880-40965-11), FS-12 (880-40965-12), FS-13 (880-40965-13), FS-14 (880-40965-14), FS-15 (880-40965-15), FS-16 (880-40965-16), FS-17 (880-40965-17), FS-18 (880-40965-18), FS-19 (880-40965-19), FS-20 (880-40965-20), FS-21 (880-40965-21), FS-22 (880-40965-22), FS-23 (880-40965-23), FS-24 (880-40965-24), FS-25 (880-40965-25), FS-26 (880-40965-26), FS-27 (880-40965-27), FS-28 (880-40965-28), FS-29 (880-40965-29), FS-30 (880-40965-30), FS-31 (880-40965-31), FS-32 (880-40965-32), FS-33 (880-40965-33), FS-34 (880-40965-34), FS-35 (880-40965-35), FS-36 (880-40965-36), FS-37 (880-40965-37), FS-38 (880-40965-38), FS-39 (880-40965-39), FS-40 (880-40965-40), FS-41 (880-40965-41), FS-42 (880-40965-42), FS-43 (880-40965-43), FS-44 (880-40965-44), FS-45 (880-40965-45), FS-46 (880-40965-46), FS-47 (880-40965-47), FS-48 (880-40965-48), FS-49 (880-40965-49), FS-50 (880-40965-50), FS-51 (880-40965-51), FS-52 (880-40965-52), FS-53 (880-40965-53), FS-54 (880-40965-54), FS-55 (880-40965-55), FS-56 (880-40965-56), FS-57 (880-40965-57), FS-58 (880-40965-58), FS-59 (880-40965-59), FS-60 (880-40965-60), FS-61 (880-40965-61), FS-62 (880-40965-62), FS-63 (880-40965-63), FS-64 (880-40965-64), FS-65 (880-40965-65), FS-66 (880-40965-66), FS-67 (880-40965-67), FS-68 (880-40965-68), FS-69 (880-40965-69), FS-70 (880-40965-70), FS-71 (880-40965-71), FS-72 (880-40965-72), FS-73 (880-40965-73), FS-74 (880-40965-74), FS-75 (880-40965-75), FS-76 (880-40965-76), FS-77 (880-40965-77), FS-78 (880-40965-78), FS-79 (880-40965-79), FS-80 (880-40965-80) and FS-81 (880-40965-81).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-81 (880-40965-81), (CCV 880-75796/20), (CCV 880-75796/33), (CCV 880-75796/51), (890-6359-A-21-I), (890-6359-A-21-G MS) and (890-6359-A-21-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-75796 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-75796/20), (CCV 880-75796/33) and (CCV 880-75796/64).

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-75804/1-A) and (LCSD 880-75804/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS-5 (880-40965-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-21 (880-40965-21), FS-22 (880-40965-22), FS-23 (880-40965-23), FS-24 (880-40965-24), FS-25 (880-40965-25), FS-28 (880-40965-28) and FS-29 (880-40965-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-30 (880-40965-30), FS-31 (880-40965-31), FS-32 (880-40965-32), FS-33 (880-40965-33), FS-34 (880-40965-34), FS-35 (880-40965-35), FS-36

Eurofins Midland

Case Narrative

Client: Ensolum
Project: NexGen Produced Water Release

Job ID: 880-40965-1

Job ID: 880-40965-1 (Continued)

Eurofins Midland

(880-40965-36), FS-37 (880-40965-37), FS-38 (880-40965-38), FS-39 (880-40965-39) and FS-40 (880-40965-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-75824 and analytical batch 880-76151 was outside the control limits.

Method 8021B: The method blank for preparation batch 880-75824 and analytical batch 880-76151 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-76237/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-72 (880-40965-72) and FS-80 (880-40965-80). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-40965-A-41-E MS) and (880-40965-A-41-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-75833 and analytical batch 880-75945 contained Gasoline Range Organics (GRO)-C6-C10 and Total TPH above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75828 and analytical batch 880-75940 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-75828/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-75828 and analytical batch 880-75940 contained Diesel Range Organics (Over C10-C28) and Total TPH above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-75828 and analytical batch 880-75940 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-75832/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS-40 (880-40965-40) and (880-40965-A-21-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-75832 and analytical batch 880-75942 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-75832 and analytical batch 880-75942 contained Gasoline Range Organics (GRO)-C6-C10 and Total TPH above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75834 and analytical batch 880-76065 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75874 and analytical batch 880-76067 was outside the upper control limits.

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Case Narrative

Client: Ensolum
Project: NexGen Produced Water Release

Job ID: 880-40965-1

Job ID: 880-40965-1 (Continued)

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Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-75874/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-75874 and analytical batch 880-76067 contained Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-75874 and analytical batch 880-76067 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-75953 and analytical batch 880-76030 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-76018 and analytical batch 880-76086 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-75994 and 880-75994 and analytical batch 880-76038 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

FS-61 (880-40965-61), FS-62 (880-40965-62), FS-63 (880-40965-63), FS-64 (880-40965-64), FS-65 (880-40965-65), FS-66 (880-40965-66), FS-67 (880-40965-67), FS-68 (880-40965-68), FS-69 (880-40965-69), FS-70 (880-40965-70), (880-40965-A-61-K MS) and (880-40965-A-61-L MSD)

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-75994 and 880-75994 and analytical batch 880-76038 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

FS-71 (880-40965-71), FS-72 (880-40965-72), FS-73 (880-40965-73), FS-74 (880-40965-74), FS-75 (880-40965-75), FS-76 (880-40965-76), FS-77 (880-40965-77), FS-78 (880-40965-78), FS-79 (880-40965-79), FS-80 (880-40965-80), (880-40965-A-71-E MS) and (880-40965-A-71-F MSD)

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

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-1

Lab Sample ID: 880-40965-1

Date Collected: 03/15/24 09:00

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000919	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 11:46	1
Toluene	<0.000454	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 11:46	1
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 11:46	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 11:46	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 11:46	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				03/18/24 10:43	03/21/24 11:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/18/24 10:43	03/21/24 11:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 11:46	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.6		50.0	15.0	mg/Kg			03/19/24 09:57	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.1	J F2	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 09:57	1
Diesel Range Organics (Over C10-C28)	21.5	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 09:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 09:57	1
Total TPH	67.6	B F2	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/18/24 11:00	03/19/24 09:57	1
o-Terphenyl	87		70 - 130				03/18/24 11:00	03/19/24 09:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106	F1	5.00	0.395	mg/Kg			03/20/24 03:01	1

Client Sample ID: FS-2

Lab Sample ID: 880-40965-2

Date Collected: 03/15/24 09:05

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000880	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 12:07	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 12:07	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 12:07	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 12:07	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 12:07	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 12:07	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-2

Lab Sample ID: 880-40965-2

Date Collected: 03/15/24 09:05

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				03/18/24 10:43	03/21/24 12:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/18/24 10:43	03/21/24 12:07	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/21/24 12:07	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.5	J	50.0	15.0	mg/Kg			03/19/24 11:01	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.5	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:01	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:01	1
Total TPH	24.5	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/18/24 11:00	03/19/24 11:01	1
o-Terphenyl	88		70 - 130				03/18/24 11:00	03/19/24 11:01	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		5.00	0.395	mg/Kg			03/20/24 03:17	1

Client Sample ID: FS-3

Lab Sample ID: 880-40965-3

Date Collected: 03/15/24 09:10

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000880	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 12:27	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 12:27	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 12:27	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 12:27	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 12:27	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				03/18/24 10:43	03/21/24 12:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/18/24 10:43	03/21/24 12:27	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/21/24 12:27	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-3

Lab Sample ID: 880-40965-3

Date Collected: 03/15/24 09:10

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.8	J	50.0	15.0	mg/Kg			03/19/24 11:22	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.8	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:22	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:22	1
Total TPH	30.8	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/18/24 11:00	03/19/24 11:22	1
o-Terphenyl	97		70 - 130	03/18/24 11:00	03/19/24 11:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.3		5.00	0.395	mg/Kg			03/20/24 03:23	1

Client Sample ID: FS-4

Lab Sample ID: 880-40965-4

Date Collected: 03/15/24 09:15

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000879	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 12:48	1
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 12:48	1
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 12:48	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 12:48	1
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 12:48	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/18/24 10:43	03/21/24 12:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/18/24 10:43	03/21/24 12:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/21/24 12:48	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.8	J	50.0	15.0	mg/Kg			03/19/24 11:43	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.8	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:43	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:43	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 11:43	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-4
Date Collected: 03/15/24 09:15
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-4
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	25.8	J B	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 11:43	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	108		70 - 130				03/18/24 11:00	03/19/24 11:43	1	
o-Terphenyl	95		70 - 130				03/18/24 11:00	03/19/24 11:43	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	114		5.00	0.395	mg/Kg	-		03/20/24 03:28	1	

Client Sample ID: FS-5
Date Collected: 03/15/24 09:20
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.000869	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 13:08	1	
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 13:08	1	
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 13:08	1	
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 13:08	1	
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 13:08	1	
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 13:08	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	70		70 - 130				03/18/24 10:43	03/21/24 13:08	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/18/24 10:43	03/21/24 13:08	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/21/24 13:08	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	28.7	J	50.0	15.0	mg/Kg	-		03/19/24 12:04	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	28.7	J	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 12:04	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 12:04	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 12:04	1	
Total TPH	28.7	J B	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 12:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	104		70 - 130				03/18/24 11:00	03/19/24 12:04	1	
o-Terphenyl	92		70 - 130				03/18/24 11:00	03/19/24 12:04	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-5

Lab Sample ID: 880-40965-5

Date Collected: 03/15/24 09:20

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.6		5.00	0.395	mg/Kg			03/20/24 03:34	1

Client Sample ID: FS-6

Lab Sample ID: 880-40965-6

Date Collected: 03/15/24 09:25

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000883	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 13:28	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 13:28	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 13:28	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 13:28	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 13:28	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				03/18/24 10:43	03/21/24 13:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/18/24 10:43	03/21/24 13:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 13:28	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	45.6	J	50.0	15.0	mg/Kg			03/19/24 12:25	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.0	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:25	1
Diesel Range Organics (Over C10-C28)	19.6	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:25	1
Total TPH	45.6	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/18/24 11:00	03/19/24 12:25	1
o-Terphenyl	88		70 - 130				03/18/24 11:00	03/19/24 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		5.00	0.395	mg/Kg			03/20/24 03:51	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-7
Date Collected: 03/15/24 09:30
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.000868	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 13:49	1	
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 13:49	1	
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 13:49	1	
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 13:49	1	
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 13:49	1	
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 13:49	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	76		70 - 130				03/18/24 10:43	03/21/24 13:49	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/18/24 10:43	03/21/24 13:49	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 13:49	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	41.6	J	50.0	15.0	mg/Kg			03/19/24 12:46	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	22.9	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:46	1	
Diesel Range Organics (Over C10-C28)	18.7	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:46	1	
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:46	1	
Total TPH	41.6	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 12:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	111		70 - 130				03/18/24 11:00	03/19/24 12:46	1	
o-Terphenyl	91		70 - 130				03/18/24 11:00	03/19/24 12:46	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	69.5		5.00	0.395	mg/Kg			03/20/24 03:56	1	

Client Sample ID: FS-8
Date Collected: 03/15/24 09:35
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.000878	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 14:09	1	
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 14:09	1	
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 14:09	1	
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 14:09	1	
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 14:09	1	
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 14:09	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-8

Lab Sample ID: 880-40965-8

Date Collected: 03/15/24 09:35

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/18/24 10:43	03/21/24 14:09	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/18/24 10:43	03/21/24 14:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 14:09	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.8	J	50.0	15.0	mg/Kg			03/19/24 13:07	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.8	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:07	1
Diesel Range Organics (Over C10-C28)	20.0	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:07	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:07	1
Total TPH	44.8	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	03/18/24 11:00	03/19/24 13:07	1
o-Terphenyl	97		70 - 130	03/18/24 11:00	03/19/24 13:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.2		5.00	0.395	mg/Kg			03/20/24 04:02	1

Client Sample ID: FS-9

Lab Sample ID: 880-40965-9

Date Collected: 03/15/24 09:40

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000874	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 14:30	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 14:30	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 14:30	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 14:30	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 14:30	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	03/18/24 10:43	03/21/24 14:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/18/24 10:43	03/21/24 14:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/21/24 14:30	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-9

Lab Sample ID: 880-40965-9

Date Collected: 03/15/24 09:40

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.9		50.0	15.0	mg/Kg			03/19/24 13:29	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.1	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:29	1
Diesel Range Organics (Over C10-C28)	29.8	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:29	1
Total TPH	52.9	B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/18/24 11:00	03/19/24 13:29	1
o-Terphenyl	93		70 - 130	03/18/24 11:00	03/19/24 13:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		5.00	0.395	mg/Kg			03/20/24 04:07	1

Client Sample ID: FS-10

Lab Sample ID: 880-40965-10

Date Collected: 03/15/24 09:45

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000875	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 14:50	1
Toluene	<0.000457	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 14:50	1
Ethylbenzene	<0.000566	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 14:50	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 14:50	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 14:50	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	03/18/24 10:43	03/21/24 14:50	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/18/24 10:43	03/21/24 14:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 14:50	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.0		50.0	15.0	mg/Kg			03/19/24 13:50	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.4	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:50	1
Diesel Range Organics (Over C10-C28)	54.6	B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 13:50	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-10
Date Collected: 03/15/24 09:45
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-10
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	78.0	B	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 13:50	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	114		70 - 130				03/18/24 11:00	03/19/24 13:50	1	
o-Terphenyl	99		70 - 130				03/18/24 11:00	03/19/24 13:50	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	321		5.00	0.395	mg/Kg	-		03/20/24 04:13	1	

Client Sample ID: FS-11
Date Collected: 03/15/24 09:50
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.000943	J B	0.00200	0.000385	mg/Kg	-	03/18/24 10:43	03/21/24 16:18	1	
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg	-	03/18/24 10:43	03/21/24 16:18	1	
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg	-	03/18/24 10:43	03/21/24 16:18	1	
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg	-	03/18/24 10:43	03/21/24 16:18	1	
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg	-	03/18/24 10:43	03/21/24 16:18	1	
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg	-	03/18/24 10:43	03/21/24 16:18	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	72		70 - 130				03/18/24 10:43	03/21/24 16:18	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/18/24 10:43	03/21/24 16:18	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg	-		03/21/24 16:18	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	45.3	J	50.0	15.0	mg/Kg	-		03/19/24 14:33	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	25.3	J	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 14:33	1	
Diesel Range Organics (Over C10-C28)	20.0	J B	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 14:33	1	
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 14:33	1	
Total TPH	45.3	J B	50.0	15.0	mg/Kg	-	03/18/24 11:00	03/19/24 14:33	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	104		70 - 130				03/18/24 11:00	03/19/24 14:33	1	
o-Terphenyl	89		70 - 130				03/18/24 11:00	03/19/24 14:33	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-11
Date Collected: 03/15/24 09:50
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-11
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		5.00	0.395	mg/Kg			03/20/24 04:18	1

Client Sample ID: FS-12
Date Collected: 03/15/24 09:55
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000827	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 16:38	1
Toluene	<0.000451	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 16:38	1
Ethylbenzene	<0.000559	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 16:38	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 16:38	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 16:38	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				03/18/24 10:43	03/21/24 16:38	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/18/24 10:43	03/21/24 16:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/21/24 16:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.5	J	50.0	15.0	mg/Kg			03/19/24 14:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.5	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 14:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 14:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 14:54	1
Total TPH	24.5	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				03/18/24 11:00	03/19/24 14:54	1
o-Terphenyl	97		70 - 130				03/18/24 11:00	03/19/24 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		5.00	0.395	mg/Kg			03/20/24 04:35	1

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-13

Lab Sample ID: 880-40965-13

Date Collected: 03/15/24 10:00

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000855	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 16:59	1
Toluene	<0.000455	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 16:59	1
Ethylbenzene	<0.000564	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 16:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 16:59	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 16:59	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/18/24 10:43	03/21/24 16:59	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/18/24 10:43	03/21/24 16:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 16:59	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.2	J	50.0	15.0	mg/Kg			03/19/24 17:45	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.2	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:45	1
Diesel Range Organics (Over C10-C28)	23.0	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:45	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:45	1
Total TPH	49.2	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/18/24 11:00	03/19/24 17:45	1
o-Terphenyl	93		70 - 130	03/18/24 11:00	03/19/24 17:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.2		5.00	0.395	mg/Kg			03/20/24 04:40	1

Client Sample ID: FS-14

Lab Sample ID: 880-40965-14

Date Collected: 03/15/24 10:05

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000875	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 17:19	1
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 17:19	1
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 17:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 17:19	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 17:19	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 17:19	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-14

Lab Sample ID: 880-40965-14

Date Collected: 03/15/24 10:05

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	03/18/24 10:43	03/21/24 17:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/18/24 10:43	03/21/24 17:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 17:19	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.5	J	50.0	15.0	mg/Kg			03/19/24 15:15	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.4	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:15	1
Diesel Range Organics (Over C10-C28)	17.1	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:15	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:15	1
Total TPH	44.5	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/18/24 11:00	03/19/24 15:15	1
o-Terphenyl	89		70 - 130	03/18/24 11:00	03/19/24 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	353		5.00	0.395	mg/Kg			03/20/24 04:57	1

Client Sample ID: FS-15

Lab Sample ID: 880-40965-15

Date Collected: 03/15/24 10:10

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000889	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 17:40	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 17:40	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 17:40	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 17:40	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 17:40	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	03/18/24 10:43	03/21/24 17:40	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/18/24 10:43	03/21/24 17:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/21/24 17:40	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-15

Lab Sample ID: 880-40965-15

Date Collected: 03/15/24 10:10

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.5		50.0	15.0	mg/Kg			03/19/24 15:36	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.3	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:36	1
Diesel Range Organics (Over C10-C28)	18.2	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:36	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:36	1
Total TPH	53.5	B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/18/24 11:00	03/19/24 15:36	1
o-Terphenyl	91		70 - 130	03/18/24 11:00	03/19/24 15:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.7		5.00	0.395	mg/Kg			03/20/24 05:02	1

Client Sample ID: FS-16

Lab Sample ID: 880-40965-16

Date Collected: 03/15/24 10:15

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000902	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 18:00	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 18:00	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 18:00	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 18:00	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 18:00	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	03/18/24 10:43	03/21/24 18:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/18/24 10:43	03/21/24 18:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/21/24 18:00	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.0		50.0	15.0	mg/Kg			03/19/24 15:58	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.7	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:58	1
Diesel Range Organics (Over C10-C28)	16.3	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:58	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-16

Lab Sample ID: 880-40965-16

Date Collected: 03/15/24 10:15

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.0	B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/18/24 11:00	03/19/24 15:58	1
o-Terphenyl	91		70 - 130				03/18/24 11:00	03/19/24 15:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	634		5.00	0.395	mg/Kg			03/20/24 05:08	1

Client Sample ID: FS-17

Lab Sample ID: 880-40965-17

Date Collected: 03/15/24 10:20

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000829	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 18:21	1
Toluene	<0.000454	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 18:21	1
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 18:21	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 18:21	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 18:21	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/18/24 10:43	03/21/24 18:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/18/24 10:43	03/21/24 18:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/21/24 18:21	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.1	J	50.0	15.0	mg/Kg			03/19/24 16:19	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.1	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:19	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:19	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:19	1
Total TPH	28.1	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/18/24 11:00	03/19/24 16:19	1
o-Terphenyl	91		70 - 130				03/18/24 11:00	03/19/24 16:19	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-17
Date Collected: 03/15/24 10:20
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-17
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	243		5.00	0.395	mg/Kg			03/20/24 05:14	1	

Client Sample ID: FS-18
Date Collected: 03/15/24 10:25
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.000854	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 18:41	1	
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 18:41	1	
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 18:41	1	
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 18:41	1	
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 18:41	1	
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 18:41	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		70 - 130				03/18/24 10:43	03/21/24 18:41	1	
1,4-Difluorobenzene (Surr)	83		70 - 130				03/18/24 10:43	03/21/24 18:41	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/21/24 18:41	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	49.8	J	50.0	15.0	mg/Kg			03/19/24 16:40	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	32.4	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:40	1	
Diesel Range Organics (Over C10-C28)	17.4	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:40	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:40	1	
Total TPH	49.8	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 16:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	107		70 - 130				03/18/24 11:00	03/19/24 16:40	1	
o-Terphenyl	91		70 - 130				03/18/24 11:00	03/19/24 16:40	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	98.2		5.00	0.395	mg/Kg			03/20/24 05:19	1	

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-19

Lab Sample ID: 880-40965-19

Date Collected: 03/15/24 10:30

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000863	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 19:01	1
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 19:01	1
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 19:01	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 19:01	1
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 19:01	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/18/24 10:43	03/21/24 19:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/18/24 10:43	03/21/24 19:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/21/24 19:01	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.2		50.0	15.0	mg/Kg			03/19/24 17:02	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.9	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:02	1
Diesel Range Organics (Over C10-C28)	17.3	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:02	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:02	1
Total TPH	50.2	B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/18/24 11:00	03/19/24 17:02	1
o-Terphenyl	87		70 - 130	03/18/24 11:00	03/19/24 17:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.3		5.00	0.395	mg/Kg			03/20/24 05:25	1

Client Sample ID: FS-20

Lab Sample ID: 880-40965-20

Date Collected: 03/15/24 10:35

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000857	J B	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 19:22	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 19:22	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 19:22	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 19:22	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 19:22	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 19:22	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-20

Lab Sample ID: 880-40965-20

Date Collected: 03/15/24 10:35

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				03/18/24 10:43	03/21/24 19:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/18/24 10:43	03/21/24 19:22	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/21/24 19:22	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	48.2	J	50.0	15.0	mg/Kg			03/19/24 17:23	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.2	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:23	1
Diesel Range Organics (Over C10-C28)	16.0	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:23	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:23	1
Total TPH	48.2	J B	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/18/24 11:00	03/19/24 17:23	1
o-Terphenyl	82		70 - 130				03/18/24 11:00	03/19/24 17:23	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.6		5.00	0.395	mg/Kg			03/20/24 05:30	1

Client Sample ID: FS-21

Lab Sample ID: 880-40965-21

Date Collected: 03/15/24 09:08

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 05:15	1
Toluene	<0.000454	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 05:15	1
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 05:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 05:15	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 05:15	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				03/18/24 10:50	03/22/24 05:15	1
1,4-Difluorobenzene (Surr)	76		70 - 130				03/18/24 10:50	03/22/24 05:15	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 05:15	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-21

Lab Sample ID: 880-40965-21

Date Collected: 03/15/24 09:08

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.3		50.0	15.0	mg/Kg			03/19/24 09:57	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.7	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 09:57	1
Diesel Range Organics (Over C10-C28)	38.6	J F1	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 09:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 09:57	1
Total TPH	70.3	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	03/18/24 11:04	03/19/24 09:57	1
o-Terphenyl	86		70 - 130	03/18/24 11:04	03/19/24 09:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		5.00	0.395	mg/Kg			03/20/24 04:03	1

Client Sample ID: FS-22

Lab Sample ID: 880-40965-22

Date Collected: 03/15/24 09:09

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 05:41	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 05:41	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 05:41	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 05:41	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 05:41	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	03/18/24 10:50	03/22/24 05:41	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/18/24 10:50	03/22/24 05:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/22/24 05:41	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.5		50.0	15.0	mg/Kg			03/19/24 11:01	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.0	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:01	1
Diesel Range Organics (Over C10-C28)	40.5	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:01	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-22

Lab Sample ID: 880-40965-22

Date Collected: 03/15/24 09:09

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.5	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:01	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctane	102		70 - 130				03/18/24 11:04	03/19/24 11:01	1
o-Terphenyl	105		70 - 130				03/18/24 11:04	03/19/24 11:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.8		5.00	0.395	mg/Kg			03/20/24 04:26	1

Client Sample ID: FS-23

Lab Sample ID: 880-40965-23

Date Collected: 03/15/24 09:10

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 06:08	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 06:08	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 06:08	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 06:08	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 06:08	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 06:08	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				03/18/24 10:50	03/22/24 06:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/18/24 10:50	03/22/24 06:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 06:08	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.1		50.0	15.0	mg/Kg			03/19/24 11:22	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.2	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:22	1
Diesel Range Organics (Over C10-C28)	36.9	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:22	1
Total TPH	73.1	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:22	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctane	78		70 - 130				03/18/24 11:04	03/19/24 11:22	1
o-Terphenyl	79		70 - 130				03/18/24 11:04	03/19/24 11:22	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-23

Lab Sample ID: 880-40965-23

Date Collected: 03/15/24 09:10

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.00	0.395	mg/Kg			03/20/24 04:33	1

Client Sample ID: FS-24

Lab Sample ID: 880-40965-24

Date Collected: 03/15/24 09:11

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 06:34	1
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 06:34	1
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 06:34	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 06:34	1
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 06:34	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 06:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				03/18/24 10:50	03/22/24 06:34	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/18/24 10:50	03/22/24 06:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 06:34	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.1		50.0	15.0	mg/Kg			03/19/24 11:43	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.0	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:43	1
Diesel Range Organics (Over C10-C28)	35.1	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:43	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:43	1
Total TPH	72.1	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 11:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				03/18/24 11:04	03/19/24 11:43	1
o-Terphenyl	116		70 - 130				03/18/24 11:04	03/19/24 11:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		5.00	0.395	mg/Kg			03/20/24 04:40	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-25
Date Collected: 03/15/24 09:12
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-25
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 07:02	1
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 07:02	1
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 07:02	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 07:02	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 07:02	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				03/18/24 10:50	03/22/24 07:02	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/18/24 10:50	03/22/24 07:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/22/24 07:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.1		50.0	15.0	mg/Kg			03/19/24 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	41.8	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:04	1
Diesel Range Organics (Over C10-C28)	38.3	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:04	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:04	1
Total TPH	80.1	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/18/24 11:04	03/19/24 12:04	1
o-Terphenyl	106		70 - 130				03/18/24 11:04	03/19/24 12:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.00	0.395	mg/Kg			03/20/24 04:48	1

Client Sample ID: FS-26
Date Collected: 03/15/24 09:13
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-26
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 07:30	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 07:30	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 07:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 07:30	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 07:30	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 07:30	1

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-26

Lab Sample ID: 880-40965-26

Date Collected: 03/15/24 09:13

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				03/18/24 10:50	03/22/24 07:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/18/24 10:50	03/22/24 07:30	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 07:30	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.7		50.0	15.0	mg/Kg			03/19/24 12:25	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.3	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:25	1
Diesel Range Organics (Over C10-C28)	34.4	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:25	1
Total TPH	67.7	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:25	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/18/24 11:04	03/19/24 12:25	1
o-Terphenyl	104		70 - 130				03/18/24 11:04	03/19/24 12:25	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		5.00	0.395	mg/Kg			03/20/24 05:10	1

Client Sample ID: FS-27

Lab Sample ID: 880-40965-27

Date Collected: 03/15/24 09:14

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 07:57	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 07:57	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 07:57	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 07:57	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 07:57	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				03/18/24 10:50	03/22/24 07:57	1
1,4-Difluorobenzene (Surr)	78		70 - 130				03/18/24 10:50	03/22/24 07:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 07:57	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-27

Lab Sample ID: 880-40965-27

Date Collected: 03/15/24 09:14

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.0		50.0	15.0	mg/Kg			03/19/24 12:46	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.5	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:46	1
Diesel Range Organics (Over C10-C28)	36.5	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:46	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:46	1
Total TPH	69.0	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/18/24 11:04	03/19/24 12:46	1
o-Terphenyl	95		70 - 130	03/18/24 11:04	03/19/24 12:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.00	0.395	mg/Kg			03/20/24 05:18	1

Client Sample ID: FS-28

Lab Sample ID: 880-40965-28

Date Collected: 03/15/24 09:15

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 08:24	1
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 08:24	1
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 08:24	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 08:24	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 08:24	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	03/18/24 10:50	03/22/24 08:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/18/24 10:50	03/22/24 08:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 08:24	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.0		50.0	15.0	mg/Kg			03/19/24 13:07	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.0	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:07	1
Diesel Range Organics (Over C10-C28)	39.0	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:07	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:07	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-28

Lab Sample ID: 880-40965-28

Date Collected: 03/15/24 09:15

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.0	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/18/24 11:04	03/19/24 13:07	1
o-Terphenyl	96		70 - 130				03/18/24 11:04	03/19/24 13:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	694		5.00	0.395	mg/Kg			03/20/24 05:25	1

Client Sample ID: FS-29

Lab Sample ID: 880-40965-29

Date Collected: 03/15/24 09:16

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 09:01	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 09:01	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 09:01	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 09:01	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 09:01	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 09:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				03/18/24 10:50	03/22/24 09:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/18/24 10:50	03/22/24 09:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 09:01	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.1		50.0	15.0	mg/Kg			03/19/24 13:29	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.8	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:29	1
Diesel Range Organics (Over C10-C28)	35.3	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:29	1
Total TPH	68.1	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/18/24 11:04	03/19/24 13:29	1
o-Terphenyl	99		70 - 130				03/18/24 11:04	03/19/24 13:29	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-29
Date Collected: 03/15/24 09:16
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-29
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		5.00	0.395	mg/Kg			03/20/24 05:32	1

Client Sample ID: FS-30
Date Collected: 03/15/24 09:17
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-30
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 09:27	1
Toluene	<0.000457	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 09:27	1
Ethylbenzene	<0.000566	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 09:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 09:27	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 09:27	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 09:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				03/18/24 10:50	03/22/24 09:27	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/18/24 10:50	03/22/24 09:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 09:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.5		50.0	15.0	mg/Kg			03/19/24 13:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.9	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:50	1
Diesel Range Organics (Over C10-C28)	33.6	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:50	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:50	1
Total TPH	71.5	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/18/24 11:04	03/19/24 13:50	1
o-Terphenyl	89		70 - 130				03/18/24 11:04	03/19/24 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		5.00	0.395	mg/Kg			03/20/24 05:40	1

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-31
Date Collected: 03/15/24 09:18
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-31
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 15:46	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 15:46	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 15:46	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 15:46	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 15:46	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				03/18/24 10:50	03/22/24 15:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/18/24 10:50	03/22/24 15:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/22/24 15:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.8		50.0	15.0	mg/Kg			03/19/24 14:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.1	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:33	1
Diesel Range Organics (Over C10-C28)	32.7	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:33	1
Total TPH	67.8	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/18/24 11:04	03/19/24 14:33	1
o-Terphenyl	86		70 - 130				03/18/24 11:04	03/19/24 14:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		5.00	0.395	mg/Kg			03/20/24 05:47	1

Client Sample ID: FS-32
Date Collected: 03/15/24 09:19
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-32
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 16:12	1
Toluene	<0.000451	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 16:12	1
Ethylbenzene	<0.000559	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 16:12	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 16:12	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 16:12	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 16:12	1

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-32

Lab Sample ID: 880-40965-32

Date Collected: 03/15/24 09:19

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				03/18/24 10:50	03/22/24 16:12	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/18/24 10:50	03/22/24 16:12	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/22/24 16:12	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.1		50.0	15.0	mg/Kg			03/19/24 14:54	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.4	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:54	1
Diesel Range Organics (Over C10-C28)	31.7	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:54	1
Total TPH	64.1	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 14:54	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/18/24 11:04	03/19/24 14:54	1
o-Terphenyl	92		70 - 130				03/18/24 11:04	03/19/24 14:54	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.00	0.395	mg/Kg			03/20/24 06:09	1

Client Sample ID: FS-33

Lab Sample ID: 880-40965-33

Date Collected: 03/15/24 09:20

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 16:38	1
Toluene	<0.000455	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 16:38	1
Ethylbenzene	<0.000564	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 16:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 16:38	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 16:38	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				03/18/24 10:50	03/22/24 16:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/18/24 10:50	03/22/24 16:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 16:38	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-33

Lab Sample ID: 880-40965-33

Date Collected: 03/15/24 09:20

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.0		50.0	15.0	mg/Kg			03/19/24 15:15	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.7	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:15	1
Diesel Range Organics (Over C10-C28)	31.3	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:15	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:15	1
Total TPH	67.0	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/18/24 11:04	03/19/24 15:15	1
o-Terphenyl	98		70 - 130	03/18/24 11:04	03/19/24 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.5		5.00	0.395	mg/Kg			03/20/24 06:17	1

Client Sample ID: FS-34

Lab Sample ID: 880-40965-34

Date Collected: 03/15/24 09:21

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 17:04	1
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 17:04	1
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 17:04	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 17:04	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 17:04	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130	03/18/24 10:50	03/22/24 17:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/18/24 10:50	03/22/24 17:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 17:04	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.9		50.0	15.0	mg/Kg			03/19/24 15:36	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.2	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:36	1
Diesel Range Organics (Over C10-C28)	29.7	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:36	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:36	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-34

Lab Sample ID: 880-40965-34

Date Collected: 03/15/24 09:21

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.9	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/18/24 11:04	03/19/24 15:36	1
o-Terphenyl	85		70 - 130				03/18/24 11:04	03/19/24 15:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.1		5.00	0.395	mg/Kg			03/20/24 06:39	1

Client Sample ID: FS-35

Lab Sample ID: 880-40965-35

Date Collected: 03/15/24 09:22

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 17:30	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 17:30	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 17:30	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 17:30	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 17:30	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				03/18/24 10:50	03/22/24 17:30	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/18/24 10:50	03/22/24 17:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 17:30	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.3		50.0	15.0	mg/Kg			03/19/24 15:58	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.9	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:58	1
Diesel Range Organics (Over C10-C28)	30.4	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:58	1
Total TPH	64.3	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				03/18/24 11:04	03/19/24 15:58	1
o-Terphenyl	76		70 - 130				03/18/24 11:04	03/19/24 15:58	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-35
Date Collected: 03/15/24 09:22
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-35
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.9		5.00	0.395	mg/Kg			03/20/24 06:46	1

Client Sample ID: FS-36
Date Collected: 03/15/24 09:21
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-36
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 17:57	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 17:57	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 17:57	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 17:57	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 17:57	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				03/18/24 10:50	03/22/24 17:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/18/24 10:50	03/22/24 17:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 17:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.9		50.0	15.0	mg/Kg			03/19/24 16:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.7	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:19	1
Diesel Range Organics (Over C10-C28)	29.2	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:19	1
Total TPH	63.9	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/18/24 11:04	03/19/24 16:19	1
o-Terphenyl	91		70 - 130				03/18/24 11:04	03/19/24 16:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		5.00	0.395	mg/Kg			03/20/24 06:54	1

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-37

Lab Sample ID: 880-40965-37

Date Collected: 03/15/24 09:24

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 18:22	1
Toluene	<0.000454	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 18:22	1
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 18:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 18:22	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 18:22	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	03/18/24 10:50	03/22/24 18:22	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/18/24 10:50	03/22/24 18:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 18:22	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.0		50.0	15.0	mg/Kg			03/19/24 16:40	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.7	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:40	1
Diesel Range Organics (Over C10-C28)	29.3	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:40	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:40	1
Total TPH	61.0	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/18/24 11:04	03/19/24 16:40	1
o-Terphenyl	101		70 - 130	03/18/24 11:04	03/19/24 16:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.3		5.00	0.395	mg/Kg			03/20/24 07:01	1

Client Sample ID: FS-38

Lab Sample ID: 880-40965-38

Date Collected: 03/15/24 09:25

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 18:48	1
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 18:48	1
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 18:48	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 18:48	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 18:48	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 18:48	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-38

Lab Sample ID: 880-40965-38

Date Collected: 03/15/24 09:25

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130	03/18/24 10:50	03/22/24 18:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/18/24 10:50	03/22/24 18:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/22/24 18:48	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.8		50.0	15.0	mg/Kg			03/19/24 17:02	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.0	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:02	1
Diesel Range Organics (Over C10-C28)	29.8	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:02	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:02	1
Total TPH	63.8	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	03/18/24 11:04	03/19/24 17:02	1
o-Terphenyl	90		70 - 130	03/18/24 11:04	03/19/24 17:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.6		5.00	0.395	mg/Kg			03/20/24 07:09	1

Client Sample ID: FS-39

Lab Sample ID: 880-40965-39

Date Collected: 03/15/24 09:26

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 19:13	1
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 19:13	1
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 19:13	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 19:13	1
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 19:13	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130	03/18/24 10:50	03/22/24 19:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/18/24 10:50	03/22/24 19:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 19:13	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-39
Date Collected: 03/15/24 09:26
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-39
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	64.9		50.0	15.0	mg/Kg			03/19/24 17:23	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	36.5	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:23	1	
Diesel Range Organics (Over C10-C28)	28.4	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:23	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:23	1	
Total TPH	64.9	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:23	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	81		70 - 130				03/18/24 11:04	03/19/24 17:23	1	
o-Terphenyl	86		70 - 130				03/18/24 11:04	03/19/24 17:23	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	75.2		5.00	0.395	mg/Kg			03/20/24 07:16	1	

Client Sample ID: FS-40
Date Collected: 03/15/24 09:27
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-40
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 19:39	1	
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 19:39	1	
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 19:39	1	
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 19:39	1	
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 19:39	1	
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 19:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130				03/18/24 10:50	03/22/24 19:39	1	
1,4-Difluorobenzene (Surr)	111		70 - 130				03/18/24 10:50	03/22/24 19:39	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 19:39	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	65.8		50.0	15.0	mg/Kg			03/19/24 17:45	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	37.2	J B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:45	1	
Diesel Range Organics (Over C10-C28)	28.6	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:45	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:45	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-40

Lab Sample ID: 880-40965-40

Date Collected: 03/15/24 09:27

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.8	B	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				03/18/24 11:04	03/19/24 17:45	1
o-Terphenyl	72		70 - 130				03/18/24 11:04	03/19/24 17:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.0		5.00	0.395	mg/Kg			03/20/24 07:23	1

Client Sample ID: FS-41

Lab Sample ID: 880-40965-41

Date Collected: 03/15/24 09:28

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/22/24 22:44	1
Toluene	0.000459	J	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/22/24 22:44	1
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/22/24 22:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/22/24 22:44	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 22:44	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				03/18/24 10:52	03/22/24 22:44	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/18/24 10:52	03/22/24 22:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/22/24 22:44	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.4	J	50.0	15.0	mg/Kg			03/19/24 09:52	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.2	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 09:52	1
Diesel Range Organics (Over C10-C28)	16.2	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 09:52	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 09:52	1
Total TPH	36.4	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 09:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/18/24 11:07	03/19/24 09:52	1
o-Terphenyl	75		70 - 130				03/18/24 11:07	03/19/24 09:52	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-41

Lab Sample ID: 880-40965-41

Date Collected: 03/15/24 09:28

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.6		5.00	0.395	mg/Kg			03/20/24 06:14	1

Client Sample ID: FS-42

Lab Sample ID: 880-40965-42

Date Collected: 03/15/24 09:29

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/22/24 23:04	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/22/24 23:04	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/22/24 23:04	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/22/24 23:04	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 23:04	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 23:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/18/24 10:52	03/22/24 23:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/18/24 10:52	03/22/24 23:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/22/24 23:04	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	45.8	J	50.0	15.0	mg/Kg			03/19/24 10:56	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.6	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 10:56	1
Diesel Range Organics (Over C10-C28)	17.2	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 10:56	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 10:56	1
Total TPH	45.8	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 10:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				03/18/24 11:07	03/19/24 10:56	1
o-Terphenyl	74		70 - 130				03/18/24 11:07	03/19/24 10:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.3		5.00	0.395	mg/Kg			03/20/24 06:31	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-43

Lab Sample ID: 880-40965-43

Date Collected: 03/15/24 09:30

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/22/24 23:25	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/22/24 23:25	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/22/24 23:25	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/22/24 23:25	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 23:25	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/18/24 10:52	03/22/24 23:25	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/18/24 10:52	03/22/24 23:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 23:25	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.3	J	50.0	15.0	mg/Kg			03/19/24 11:17	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.1	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:17	1
Diesel Range Organics (Over C10-C28)	15.2	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:17	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:17	1
Total TPH	40.3	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	03/18/24 11:07	03/19/24 11:17	1
o-Terphenyl	74		70 - 130	03/18/24 11:07	03/19/24 11:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.8		5.00	0.395	mg/Kg			03/20/24 06:37	1

Client Sample ID: FS-44

Lab Sample ID: 880-40965-44

Date Collected: 03/15/24 09:31

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/22/24 23:46	1
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/22/24 23:46	1
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/22/24 23:46	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/22/24 23:46	1
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 23:46	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 23:46	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-44

Lab Sample ID: 880-40965-44

Date Collected: 03/15/24 09:31

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/18/24 10:52	03/22/24 23:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/18/24 10:52	03/22/24 23:46	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/22/24 23:46	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.3	J	50.0	15.0	mg/Kg			03/19/24 11:38	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.2	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:38	1
Diesel Range Organics (Over C10-C28)	15.1	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:38	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:38	1
Total TPH	42.3	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:38	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/18/24 11:07	03/19/24 11:38	1
o-Terphenyl	83		70 - 130				03/18/24 11:07	03/19/24 11:38	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.6		5.00	0.395	mg/Kg			03/20/24 06:42	1

Client Sample ID: FS-45

Lab Sample ID: 880-40965-45

Date Collected: 03/15/24 09:32

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 00:06	1
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 00:06	1
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 00:06	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 00:06	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 00:06	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/18/24 10:52	03/23/24 00:06	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/18/24 10:52	03/23/24 00:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 00:06	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-45

Lab Sample ID: 880-40965-45

Date Collected: 03/15/24 09:32

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.2	J	50.0	15.0	mg/Kg			03/19/24 11:58	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.2	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:58	1
Total TPH	25.2	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	03/18/24 11:07	03/19/24 11:58	1
o-Terphenyl	73		70 - 130	03/18/24 11:07	03/19/24 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.0		5.00	0.395	mg/Kg			03/20/24 06:48	1

Client Sample ID: FS-46

Lab Sample ID: 880-40965-46

Date Collected: 03/15/24 09:33

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 00:27	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 00:27	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 00:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 00:27	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 00:27	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/18/24 10:52	03/23/24 00:27	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/18/24 10:52	03/23/24 00:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 00:27	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.6	J	50.0	15.0	mg/Kg			03/19/24 12:20	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.6	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:20	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:20	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:20	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-46
Date Collected: 03/15/24 09:33
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-46
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	26.6	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:20	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	86		70 - 130				03/18/24 11:07	03/19/24 12:20	1	
o-Terphenyl	79		70 - 130				03/18/24 11:07	03/19/24 12:20	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	70.6		5.00	0.395	mg/Kg			03/20/24 07:04	1	

Client Sample ID: FS-47
Date Collected: 03/15/24 09:34
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-47
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 00:48	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 00:48	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 00:48	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 00:48	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 00:48	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				03/18/24 10:52	03/23/24 00:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/18/24 10:52	03/23/24 00:48	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 00:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	26.1	J	50.0	15.0	mg/Kg			03/19/24 12:40	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	26.1	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:40	1	
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:40	1	
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:40	1	
Total TPH	26.1	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 12:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	84		70 - 130				03/18/24 11:07	03/19/24 12:40	1	
o-Terphenyl	78		70 - 130				03/18/24 11:07	03/19/24 12:40	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-47

Lab Sample ID: 880-40965-47

Date Collected: 03/15/24 09:34

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.4		5.00	0.395	mg/Kg			03/20/24 07:10	1

Client Sample ID: FS-48

Lab Sample ID: 880-40965-48

Date Collected: 03/15/24 09:35

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 01:09	1
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 01:09	1
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 01:09	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 01:09	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 01:09	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/18/24 10:52	03/23/24 01:09	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/18/24 10:52	03/23/24 01:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 01:09	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.1	J	50.0	15.0	mg/Kg			03/19/24 13:01	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.1	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:01	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:01	1
Total TPH	26.1	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/18/24 11:07	03/19/24 13:01	1
o-Terphenyl	74		70 - 130				03/18/24 11:07	03/19/24 13:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.8		5.00	0.395	mg/Kg			03/20/24 07:15	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-49

Lab Sample ID: 880-40965-49

Date Collected: 03/15/24 09:36

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 01:29	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 01:29	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 01:29	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 01:29	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 01:29	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/18/24 10:52	03/23/24 01:29	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/18/24 10:52	03/23/24 01:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 01:29	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.3	J	50.0	15.0	mg/Kg			03/19/24 13:22	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.3	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:22	1
Total TPH	27.3	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	03/18/24 11:07	03/19/24 13:22	1
o-Terphenyl	71		70 - 130	03/18/24 11:07	03/19/24 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.6		5.00	0.395	mg/Kg			03/20/24 07:21	1

Client Sample ID: FS-50

Lab Sample ID: 880-40965-50

Date Collected: 03/15/24 09:37

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 01:50	1
Toluene	<0.000457	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 01:50	1
Ethylbenzene	<0.000566	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 01:50	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 01:50	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 01:50	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 01:50	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-50

Lab Sample ID: 880-40965-50

Date Collected: 03/15/24 09:37

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/18/24 10:52	03/23/24 01:50	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/18/24 10:52	03/23/24 01:50	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 01:50	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.0	J	50.0	15.0	mg/Kg			03/19/24 13:42	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.0	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:42	1
Total TPH	28.0	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 13:42	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				03/18/24 11:07	03/19/24 13:42	1
o-Terphenyl	77		70 - 130				03/18/24 11:07	03/19/24 13:42	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.6		5.00	0.395	mg/Kg			03/20/24 07:26	1

Client Sample ID: FS-51

Lab Sample ID: 880-40965-51

Date Collected: 03/15/24 09:38

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 03:14	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 03:14	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 03:14	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 03:14	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 03:14	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				03/18/24 10:52	03/23/24 03:14	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/18/24 10:52	03/23/24 03:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 03:14	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-51

Lab Sample ID: 880-40965-51

Date Collected: 03/15/24 09:38

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.9	J	50.0	15.0	mg/Kg			03/19/24 14:24	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.9	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:24	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:24	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:24	1
Total TPH	28.9	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	03/18/24 11:07	03/19/24 14:24	1
o-Terphenyl	73		70 - 130	03/18/24 11:07	03/19/24 14:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		5.00	0.395	mg/Kg			03/20/24 07:32	1

Client Sample ID: FS-52

Lab Sample ID: 880-40965-52

Date Collected: 03/15/24 09:39

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 03:34	1
Toluene	<0.000451	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 03:34	1
Ethylbenzene	<0.000559	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 03:34	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 03:34	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 03:34	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/18/24 10:52	03/23/24 03:34	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/18/24 10:52	03/23/24 03:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 03:34	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.4	J	50.0	15.0	mg/Kg			03/19/24 14:46	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.4	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:46	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:46	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:46	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-52
Date Collected: 03/15/24 09:39
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-52
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	33.4	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 14:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	82		70 - 130				03/18/24 11:07	03/19/24 14:46	1	
o-Terphenyl	75		70 - 130				03/18/24 11:07	03/19/24 14:46	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	68.1		5.00	0.395	mg/Kg			03/20/24 07:48	1	

Client Sample ID: FS-53
Date Collected: 03/15/24 09:40
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-53
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.000384	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 03:55	1	
Toluene	<0.000455	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 03:55	1	
Ethylbenzene	<0.000564	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 03:55	1	
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 03:55	1	
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 03:55	1	
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 03:55	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130				03/18/24 10:52	03/23/24 03:55	1	
1,4-Difluorobenzene (Surr)	102		70 - 130				03/18/24 10:52	03/23/24 03:55	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 03:55	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	30.9	J	50.0	15.0	mg/Kg			03/19/24 15:07	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	30.9	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:07	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:07	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:07	1	
Total TPH	30.9	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:07	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	80		70 - 130				03/18/24 11:07	03/19/24 15:07	1	
o-Terphenyl	71		70 - 130				03/18/24 11:07	03/19/24 15:07	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-53

Lab Sample ID: 880-40965-53

Date Collected: 03/15/24 09:40

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.7		5.00	0.395	mg/Kg			03/20/24 07:54	1

Client Sample ID: FS-54

Lab Sample ID: 880-40965-54

Date Collected: 03/15/24 09:41

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 04:16	1
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 04:16	1
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 04:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 04:16	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 04:16	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/18/24 10:52	03/23/24 04:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/18/24 10:52	03/23/24 04:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 04:16	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	43.4	J	50.0	15.0	mg/Kg			03/19/24 15:28	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.6	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:28	1
Diesel Range Organics (Over C10-C28)	15.8	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:28	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:28	1
Total TPH	43.4	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/18/24 11:07	03/19/24 15:28	1
o-Terphenyl	74		70 - 130				03/18/24 11:07	03/19/24 15:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		5.00	0.395	mg/Kg			03/20/24 08:11	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-55

Lab Sample ID: 880-40965-55

Date Collected: 03/15/24 09:42

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 04:36	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 04:36	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 04:36	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 04:36	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 04:36	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/18/24 10:52	03/23/24 04:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/18/24 10:52	03/23/24 04:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 04:36	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.2	J	50.0	15.0	mg/Kg			03/19/24 15:49	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.9	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:49	1
Diesel Range Organics (Over C10-C28)	15.3	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:49	1
Total TPH	47.2	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	03/18/24 11:07	03/19/24 15:49	1
o-Terphenyl	75		70 - 130	03/18/24 11:07	03/19/24 15:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.8		5.00	0.395	mg/Kg			03/20/24 08:16	1

Client Sample ID: FS-56

Lab Sample ID: 880-40965-56

Date Collected: 03/15/24 09:43

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 04:57	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 04:57	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 04:57	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 04:57	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 04:57	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 04:57	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-56

Lab Sample ID: 880-40965-56

Date Collected: 03/15/24 09:43

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/18/24 10:52	03/23/24 04:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/18/24 10:52	03/23/24 04:57	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 04:57	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.1	J	50.0	15.0	mg/Kg			03/19/24 16:11	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.4	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:11	1
Diesel Range Organics (Over C10-C28)	16.7	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:11	1
Total TPH	46.1	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				03/18/24 11:07	03/19/24 16:11	1
o-Terphenyl	72		70 - 130				03/18/24 11:07	03/19/24 16:11	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.4		5.00	0.395	mg/Kg			03/20/24 08:22	1

Client Sample ID: FS-57

Lab Sample ID: 880-40965-57

Date Collected: 03/15/24 09:44

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 05:18	1
Toluene	<0.000454	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 05:18	1
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 05:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 05:18	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 05:18	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/18/24 10:52	03/23/24 05:18	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/18/24 10:52	03/23/24 05:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 05:18	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-57

Lab Sample ID: 880-40965-57

Date Collected: 03/15/24 09:44

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.9	J	50.0	15.0	mg/Kg			03/19/24 16:32	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.9	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:32	1
Total TPH	29.9	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	03/18/24 11:07	03/19/24 16:32	1
o-Terphenyl	74		70 - 130	03/18/24 11:07	03/19/24 16:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.2		5.00	0.395	mg/Kg			03/20/24 08:26	1

Client Sample ID: FS-58

Lab Sample ID: 880-40965-58

Date Collected: 03/15/24 09:45

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 05:38	1
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 05:38	1
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 05:38	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 05:38	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 05:38	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/18/24 10:52	03/23/24 05:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/18/24 10:52	03/23/24 05:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 05:38	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	45.3	J	50.0	15.0	mg/Kg			03/19/24 16:53	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.6	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:53	1
Diesel Range Organics (Over C10-C28)	15.7	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:53	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:53	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-58

Lab Sample ID: 880-40965-58

Date Collected: 03/15/24 09:45

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	45.3	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/18/24 11:07	03/19/24 16:53	1
o-Terphenyl	83		70 - 130				03/18/24 11:07	03/19/24 16:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.7		5.00	0.395	mg/Kg			03/20/24 08:31	1

Client Sample ID: FS-59

Lab Sample ID: 880-40965-59

Date Collected: 03/15/24 09:46

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 05:59	1
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 05:59	1
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 05:59	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 05:59	1
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 05:59	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 05:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/18/24 10:52	03/23/24 05:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/18/24 10:52	03/23/24 05:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 05:59	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.4	J	50.0	15.0	mg/Kg			03/19/24 17:13	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.2	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:13	1
Diesel Range Organics (Over C10-C28)	18.2	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:13	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:13	1
Total TPH	49.4	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				03/18/24 11:07	03/19/24 17:13	1
o-Terphenyl	76		70 - 130				03/18/24 11:07	03/19/24 17:13	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-59

Lab Sample ID: 880-40965-59

Date Collected: 03/15/24 09:46

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.8		5.00	0.395	mg/Kg			03/20/24 08:36	1

Client Sample ID: FS-60

Lab Sample ID: 880-40965-60

Date Collected: 03/15/24 10:00

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/23/24 06:20	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/23/24 06:20	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/23/24 06:20	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/23/24 06:20	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 06:20	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/23/24 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/18/24 10:52	03/23/24 06:20	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/18/24 10:52	03/23/24 06:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 06:20	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	45.4	J	50.0	15.0	mg/Kg			03/19/24 17:34	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.8	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:34	1
Diesel Range Organics (Over C10-C28)	15.6	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:34	1
Total TPH	45.4	J B	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				03/18/24 11:07	03/19/24 17:34	1
o-Terphenyl	73		70 - 130				03/18/24 11:07	03/19/24 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.2		5.00	0.395	mg/Kg			03/20/24 08:41	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-61

Lab Sample ID: 880-40965-61

Date Collected: 03/15/24 09:51

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 04:30	1
Toluene	<0.000454	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 04:30	1
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 04:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 04:30	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 04:30	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				03/18/24 10:55	03/23/24 04:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/18/24 10:55	03/23/24 04:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 04:30	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			03/20/24 10:03	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 10:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 10:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 10:03	1
Total TPH	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 10:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				03/18/24 11:10	03/20/24 10:03	1
o-Terphenyl	101		70 - 130				03/18/24 11:10	03/20/24 10:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.7	F1	5.00	0.395	mg/Kg			03/20/24 16:38	1

Client Sample ID: FS-62

Lab Sample ID: 880-40965-62

Date Collected: 03/15/24 09:52

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 04:51	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 04:51	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 04:51	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 04:51	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 04:51	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 04:51	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-62

Lab Sample ID: 880-40965-62

Date Collected: 03/15/24 09:52

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/18/24 10:55	03/23/24 04:51	1
1,4-Difluorobenzene (Surr)	118		70 - 130	03/18/24 10:55	03/23/24 04:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 04:51	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.0	15.0	mg/Kg			03/20/24 11:07	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:07	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:07	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:07	1
Total TPH	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/18/24 11:10	03/20/24 11:07	1
o-Terphenyl	91		70 - 130	03/18/24 11:10	03/20/24 11:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.00	0.395	mg/Kg			03/20/24 17:00	1

Client Sample ID: FS-63

Lab Sample ID: 880-40965-63

Date Collected: 03/15/24 09:50

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 05:11	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 05:11	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 05:11	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 05:11	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 05:11	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/18/24 10:55	03/23/24 05:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/18/24 10:55	03/23/24 05:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 05:11	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-63

Lab Sample ID: 880-40965-63

Date Collected: 03/15/24 09:50

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	50.0	15.0	mg/Kg			03/20/24 11:28	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:28	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:28	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:28	1
Total TPH	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/18/24 11:10	03/20/24 11:28	1
o-Terphenyl	107		70 - 130	03/18/24 11:10	03/20/24 11:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		5.00	0.395	mg/Kg			03/20/24 17:08	1

Client Sample ID: FS-64

Lab Sample ID: 880-40965-64

Date Collected: 03/15/24 09:48

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 05:32	1
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 05:32	1
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 05:32	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 05:32	1
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 05:32	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/18/24 10:55	03/23/24 05:32	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/18/24 10:55	03/23/24 05:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 05:32	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			03/20/24 11:49	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:49	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-64

Lab Sample ID: 880-40965-64

Date Collected: 03/15/24 09:48

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/18/24 11:10	03/20/24 11:49	1
o-Terphenyl	99		70 - 130				03/18/24 11:10	03/20/24 11:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.9		5.00	0.395	mg/Kg			03/20/24 17:15	1

Client Sample ID: FS-65

Lab Sample ID: 880-40965-65

Date Collected: 03/15/24 09:44

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 05:52	1
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 05:52	1
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 05:52	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 05:52	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 05:52	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				03/18/24 10:55	03/23/24 05:52	1
1,4-Difluorobenzene (Surr)	115		70 - 130				03/18/24 10:55	03/23/24 05:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 05:52	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	50.0	15.0	mg/Kg			03/20/24 12:10	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:10	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:10	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:10	1
Total TPH	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/18/24 11:10	03/20/24 12:10	1
o-Terphenyl	94		70 - 130				03/18/24 11:10	03/20/24 12:10	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-65

Lab Sample ID: 880-40965-65

Date Collected: 03/15/24 09:44

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.7		5.00	0.395	mg/Kg			03/20/24 17:22	1

Client Sample ID: FS-66

Lab Sample ID: 880-40965-66

Date Collected: 03/15/24 09:42

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 06:13	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 06:13	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 06:13	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 06:13	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 06:13	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 06:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/18/24 10:55	03/23/24 06:13	1
1,4-Difluorobenzene (Surr)	117		70 - 130				03/18/24 10:55	03/23/24 06:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 06:13	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.0	mg/Kg			03/20/24 12:32	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:32	1
Total TPH	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/18/24 11:10	03/20/24 12:32	1
o-Terphenyl	101		70 - 130				03/18/24 11:10	03/20/24 12:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.5		5.00	0.395	mg/Kg			03/20/24 17:45	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-67

Lab Sample ID: 880-40965-67

Date Collected: 03/15/24 09:40

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 06:33	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 06:33	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 06:33	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 06:33	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 06:33	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 06:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	03/18/24 10:55	03/23/24 06:33	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/18/24 10:55	03/23/24 06:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 06:33	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			03/20/24 12:53	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:53	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:53	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:53	1
Total TPH	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/18/24 11:10	03/20/24 12:53	1
o-Terphenyl	97		70 - 130	03/18/24 11:10	03/20/24 12:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		5.00	0.395	mg/Kg			03/20/24 17:52	1

Client Sample ID: FS-68

Lab Sample ID: 880-40965-68

Date Collected: 03/15/24 09:37

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 06:54	1
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 06:54	1
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 06:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 06:54	1
o-Xylene	0.000644	J	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 06:54	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 06:54	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-68

Lab Sample ID: 880-40965-68

Date Collected: 03/15/24 09:37

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				03/18/24 10:55	03/23/24 06:54	1
1,4-Difluorobenzene (Surr)	114		70 - 130				03/18/24 10:55	03/23/24 06:54	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 06:54	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			03/20/24 13:15	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:15	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:15	1
Total TPH	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:15	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				03/18/24 11:10	03/20/24 13:15	1
o-Terphenyl	106		70 - 130				03/18/24 11:10	03/20/24 13:15	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.4		5.00	0.395	mg/Kg			03/20/24 17:59	1

Client Sample ID: FS-69

Lab Sample ID: 880-40965-69

Date Collected: 03/15/24 09:35

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 07:14	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 07:14	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 07:14	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 07:14	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 07:14	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 07:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				03/18/24 10:55	03/23/24 07:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/18/24 10:55	03/23/24 07:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 07:14	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-69

Lab Sample ID: 880-40965-69

Date Collected: 03/15/24 09:35

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.0	15.0	mg/Kg			03/20/24 13:36	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:36	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:36	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:36	1
Total TPH	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	03/18/24 11:10	03/20/24 13:36	1
o-Terphenyl	106		70 - 130	03/18/24 11:10	03/20/24 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.0		5.00	0.395	mg/Kg			03/20/24 18:07	1

Client Sample ID: FS-70

Lab Sample ID: 880-40965-70

Date Collected: 03/15/24 09:34

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 07:35	1
Toluene	<0.000457	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 07:35	1
Ethylbenzene	<0.000566	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 07:35	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 07:35	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 07:35	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/18/24 10:55	03/23/24 07:35	1
1,4-Difluorobenzene (Surr)	116		70 - 130	03/18/24 10:55	03/23/24 07:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 07:35	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.7	J	50.0	15.0	mg/Kg			03/20/24 13:58	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.7	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:58	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-70

Lab Sample ID: 880-40965-70

Date Collected: 03/15/24 09:34

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.7	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/18/24 11:10	03/20/24 13:58	1
o-Terphenyl	94		70 - 130				03/18/24 11:10	03/20/24 13:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.8		5.00	0.395	mg/Kg			03/20/24 18:14	1

Client Sample ID: FS-71

Lab Sample ID: 880-40965-71

Date Collected: 03/15/24 09:30

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 09:23	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 09:23	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 09:23	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 09:23	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 09:23	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 09:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				03/18/24 10:55	03/23/24 09:23	1
1,4-Difluorobenzene (Surr)	129		70 - 130				03/18/24 10:55	03/23/24 09:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 09:23	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.4	J	50.0	15.0	mg/Kg			03/20/24 14:41	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.4	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 14:41	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 14:41	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 14:41	1
Total TPH	18.4	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/18/24 11:10	03/20/24 14:41	1
o-Terphenyl	93		70 - 130				03/18/24 11:10	03/20/24 14:41	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-71
Date Collected: 03/15/24 09:30
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-71
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0	F1	5.00	0.395	mg/Kg			03/20/24 18:22	1

Client Sample ID: FS-72
Date Collected: 03/15/24 09:29
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-72
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 09:49	1
Toluene	<0.000451	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 09:49	1
Ethylbenzene	<0.000559	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 09:49	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 09:49	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 09:49	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 09:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				03/18/24 10:55	03/23/24 09:49	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130				03/18/24 10:55	03/23/24 09:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 09:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.4	J	50.0	15.0	mg/Kg			03/20/24 15:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:02	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:02	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:02	1
Total TPH	21.4	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/18/24 11:10	03/20/24 15:02	1
o-Terphenyl	91		70 - 130				03/18/24 11:10	03/20/24 15:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.7		5.00	0.395	mg/Kg			03/20/24 18:44	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-73

Lab Sample ID: 880-40965-73

Date Collected: 03/15/24 09:28

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 10:18	1
Toluene	<0.000455	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 10:18	1
Ethylbenzene	<0.000564	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 10:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 10:18	1
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 10:18	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/18/24 10:55	03/23/24 10:18	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/18/24 10:55	03/23/24 10:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 10:18	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.7	J	50.0	15.0	mg/Kg			03/20/24 15:24	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.2	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:24	1
Diesel Range Organics (Over C10-C28)	17.5	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:24	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:24	1
Total TPH	44.7	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/18/24 11:10	03/20/24 15:24	1
o-Terphenyl	91		70 - 130	03/18/24 11:10	03/20/24 15:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		5.00	0.395	mg/Kg			03/20/24 18:51	1

Client Sample ID: FS-74

Lab Sample ID: 880-40965-74

Date Collected: 03/15/24 09:26

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 10:38	1
Toluene	<0.000458	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 10:38	1
Ethylbenzene	<0.000567	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 10:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 10:38	1
o-Xylene	<0.000345	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 10:38	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 10:38	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-74

Lab Sample ID: 880-40965-74

Date Collected: 03/15/24 09:26

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/18/24 10:55	03/23/24 10:38	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/18/24 10:55	03/23/24 10:38	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 10:38	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.9	J	50.0	15.0	mg/Kg			03/20/24 15:46	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.9	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:46	1
Total TPH	29.9	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/18/24 11:10	03/20/24 15:46	1
o-Terphenyl	93		70 - 130				03/18/24 11:10	03/20/24 15:46	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.8		5.00	0.395	mg/Kg			03/20/24 19:13	1

Client Sample ID: FS-75

Lab Sample ID: 880-40965-75

Date Collected: 03/15/24 09:24

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 10:59	1
Toluene	<0.000461	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 10:59	1
Ethylbenzene	<0.000571	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 10:59	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 10:59	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 10:59	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/18/24 10:55	03/23/24 10:59	1
1,4-Difluorobenzene (Surr)	111		70 - 130				03/18/24 10:55	03/23/24 10:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 10:59	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-75
Date Collected: 03/15/24 09:24
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-75
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	27.8	J	50.0	15.0	mg/Kg			03/20/24 16:07	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	27.8	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:07	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:07	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:07	1	
Total TPH	27.8	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:07	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	106		70 - 130				03/18/24 11:10	03/20/24 16:07	1	
o-Terphenyl	92		70 - 130				03/18/24 11:10	03/20/24 16:07	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	66.8		5.00	0.395	mg/Kg			03/20/24 19:21	1	

Client Sample ID: FS-76
Date Collected: 03/15/24 09:22
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-76
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 11:19	1
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 11:19	1
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 11:19	1
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 11:19	1
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 11:19	1
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 11:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/18/24 10:55	03/23/24 11:19	1
1,4-Difluorobenzene (Surr)	116		70 - 130				03/18/24 10:55	03/23/24 11:19	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 11:19	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.7	J	50.0	15.0	mg/Kg			03/20/24 16:28	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.7	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:28	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:28	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:28	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-76
Date Collected: 03/15/24 09:22
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-76
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	24.7	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:28	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	105		70 - 130				03/18/24 11:10	03/20/24 16:28	1	
o-Terphenyl	93		70 - 130				03/18/24 11:10	03/20/24 16:28	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	77.8		5.00	0.395	mg/Kg			03/20/24 19:28	1	

Client Sample ID: FS-77
Date Collected: 03/15/24 09:21
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-77
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 11:40	1	
Toluene	<0.000454	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 11:40	1	
Ethylbenzene	<0.000563	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 11:40	1	
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 11:40	1	
o-Xylene	<0.000343	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 11:40	1	
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 11:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	118		70 - 130				03/18/24 10:55	03/23/24 11:40	1	
1,4-Difluorobenzene (Surr)	111		70 - 130				03/18/24 10:55	03/23/24 11:40	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00101	U	0.00200	0.000565	mg/Kg			03/23/24 11:40	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	39.9	J	50.0	15.0	mg/Kg			03/20/24 16:50	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	23.7	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:50	1	
Diesel Range Organics (Over C10-C28)	16.2	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:50	1	
Oil Range Organics (Over C28-C36)	<15.2	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:50	1	
Total TPH	39.9	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 16:50	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	103		70 - 130				03/18/24 11:10	03/20/24 16:50	1	
o-Terphenyl	92		70 - 130				03/18/24 11:10	03/20/24 16:50	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-77
Date Collected: 03/15/24 09:21
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-77
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.6		5.00	0.395	mg/Kg			03/20/24 19:36	1

Client Sample ID: FS-78
Date Collected: 03/15/24 09:20
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-78
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 12:01	1
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 12:01	1
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 12:01	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 12:01	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 12:01	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/18/24 10:55	03/23/24 12:01	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/18/24 10:55	03/23/24 12:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/23/24 12:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.6	J	50.0	15.0	mg/Kg			03/20/24 17:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.6	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:11	1
Total TPH	28.6	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/18/24 11:10	03/20/24 17:11	1
o-Terphenyl	95		70 - 130				03/18/24 11:10	03/20/24 17:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9		5.00	0.395	mg/Kg			03/20/24 19:43	1

Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-79
Date Collected: 03/15/24 09:19
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-79
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.000387	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 12:21	1	
Toluene	<0.000459	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 12:21	1	
Ethylbenzene	<0.000568	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 12:21	1	
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 12:21	1	
o-Xylene	<0.000346	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 12:21	1	
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 12:21	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	114		70 - 130				03/18/24 10:55	03/23/24 12:21	1	
1,4-Difluorobenzene (Surr)	108		70 - 130				03/18/24 10:55	03/23/24 12:21	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 12:21	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	27.0	J	50.0	15.0	mg/Kg			03/20/24 17:32	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	27.0	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:32	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:32	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:32	1	
Total TPH	27.0	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:32	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	113		70 - 130				03/18/24 11:10	03/20/24 17:32	1	
o-Terphenyl	99		70 - 130				03/18/24 11:10	03/20/24 17:32	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	66.9		5.00	0.395	mg/Kg			03/20/24 19:50	1	

Client Sample ID: FS-80
Date Collected: 03/15/24 09:18
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-80
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.000388	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 12:42	1	
Toluene	<0.000460	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 12:42	1	
Ethylbenzene	<0.000570	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 12:42	1	
m-Xylene & p-Xylene	<0.00102	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 12:42	1	
o-Xylene	<0.000347	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 12:42	1	
Xylenes, Total	<0.00102	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 12:42	1	

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-80

Lab Sample ID: 880-40965-80

Date Collected: 03/15/24 09:18

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				03/18/24 10:55	03/23/24 12:42	1
1,4-Difluorobenzene (Surr)	121		70 - 130				03/18/24 10:55	03/23/24 12:42	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00200	0.000565	mg/Kg			03/23/24 12:42	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.9	J	50.0	15.0	mg/Kg			03/20/24 17:53	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.9	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:53	1
Diesel Range Organics (Over C10-C28)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:53	1
Oil Range Organics (Over C28-C36)	<14.9	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:53	1
Total TPH	24.9	J	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 17:53	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/18/24 11:10	03/20/24 17:53	1
o-Terphenyl	95		70 - 130				03/18/24 11:10	03/20/24 17:53	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.7		5.00	0.395	mg/Kg			03/20/24 19:58	1

Client Sample ID: FS-81

Lab Sample ID: 880-40965-81

Date Collected: 03/15/24 09:17

Matrix: Solid

Date Received: 03/15/24 15:02

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00200	0.000385	mg/Kg		03/18/24 09:00	03/19/24 11:04	1
Toluene	<0.000452	U	0.00200	0.000456	mg/Kg		03/18/24 09:00	03/19/24 11:04	1
Ethylbenzene	<0.000561	U	0.00200	0.000565	mg/Kg		03/18/24 09:00	03/19/24 11:04	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/18/24 09:00	03/19/24 11:04	1
o-Xylene	<0.000341	U	0.00200	0.000344	mg/Kg		03/18/24 09:00	03/19/24 11:04	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/18/24 09:00	03/19/24 11:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130				03/18/24 09:00	03/19/24 11:04	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/18/24 09:00	03/19/24 11:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00200	0.000565	mg/Kg			03/19/24 11:04	1

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Client Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-81
Date Collected: 03/15/24 09:17
Date Received: 03/15/24 15:02
Sample Depth: 0.5'

Lab Sample ID: 880-40965-81
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	64.0		50.0	15.0	mg/Kg			03/20/24 12:32	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	29.2	J	50.0	15.0	mg/Kg		03/18/24 13:00	03/20/24 12:32	1	
Diesel Range Organics (Over C10-C28)	34.8	J	50.0	15.0	mg/Kg		03/18/24 13:00	03/20/24 12:32	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 13:00	03/20/24 12:32	1	
Total TPH	64.0	B	50.0	15.0	mg/Kg		03/18/24 13:00	03/20/24 12:32	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	109		70 - 130				03/18/24 13:00	03/20/24 12:32	1	
o-Terphenyl	113		70 - 130				03/18/24 13:00	03/20/24 12:32	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	42.4	F1	5.00	0.395	mg/Kg			03/20/24 10:37	1	

Surrogate Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-40965-1	FS-1	75	97
880-40965-1 MS	FS-1	100	127
880-40965-1 MSD	FS-1	107	125
880-40965-2	FS-2	76	99
880-40965-3	FS-3	77	96
880-40965-4	FS-4	74	99
880-40965-5	FS-5	70	100
880-40965-6	FS-6	78	97
880-40965-7	FS-7	76	100
880-40965-8	FS-8	74	97
880-40965-9	FS-9	78	92
880-40965-10	FS-10	76	91
880-40965-11	FS-11	72	100
880-40965-12	FS-12	81	91
880-40965-13	FS-13	92	95
880-40965-14	FS-14	77	98
880-40965-15	FS-15	80	97
880-40965-16	FS-16	77	104
880-40965-17	FS-17	94	93
880-40965-18	FS-18	93	83
880-40965-19	FS-19	81	96
880-40965-20	FS-20	86	92
880-40965-21	FS-21	140 S1+	76
880-40965-21 MS	FS-21	119	117
880-40965-21 MSD	FS-21	125	96
880-40965-22	FS-22	137 S1+	92
880-40965-23	FS-23	134 S1+	98
880-40965-24	FS-24	140 S1+	95
880-40965-25	FS-25	144 S1+	85
880-40965-26	FS-26	78	95
880-40965-27	FS-27	122	78
880-40965-28	FS-28	150 S1+	97
880-40965-29	FS-29	151 S1+	95
880-40965-30	FS-30	146 S1+	102
880-40965-31	FS-31	131 S1+	94
880-40965-32	FS-32	146 S1+	102
880-40965-33	FS-33	136 S1+	99
880-40965-34	FS-34	158 S1+	103
880-40965-35	FS-35	147 S1+	105
880-40965-36	FS-36	144 S1+	96
880-40965-37	FS-37	141 S1+	104
880-40965-38	FS-38	162 S1+	103
880-40965-39	FS-39	162 S1+	101
880-40965-40	FS-40	164 S1+	111
880-40965-41	FS-41	91	98
880-40965-41 MS	FS-41	102	104
880-40965-41 MSD	FS-41	103	100
880-40965-42	FS-42	104	107
880-40965-43	FS-43	97	108

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Surrogate Summary

Client: Ensolum

Job ID: 880-40965-1

Project/Site: NexGen Produced Water Release

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-40965-44	FS-44	100	107
880-40965-45	FS-45	104	105
880-40965-46	FS-46	99	106
880-40965-47	FS-47	98	103
880-40965-48	FS-48	100	105
880-40965-49	FS-49	102	105
880-40965-50	FS-50	101	106
880-40965-51	FS-51	98	104
880-40965-52	FS-52	105	106
880-40965-53	FS-53	99	102
880-40965-54	FS-54	107	108
880-40965-55	FS-55	99	103
880-40965-56	FS-56	100	105
880-40965-57	FS-57	107	108
880-40965-58	FS-58	96	103
880-40965-59	FS-59	107	106
880-40965-60	FS-60	106	103
880-40965-61	FS-61	92	103
880-40965-61 MS	FS-61	115	106
880-40965-61 MSD	FS-61	110	96
880-40965-62	FS-62	114	118
880-40965-63	FS-63	109	108
880-40965-64	FS-64	113	107
880-40965-65	FS-65	122	115
880-40965-66	FS-66	119	117
880-40965-67	FS-67	122	104
880-40965-68	FS-68	116	114
880-40965-69	FS-69	120	110
880-40965-70	FS-70	119	116
880-40965-71	FS-71	124	129
880-40965-72	FS-72	124	133 S1+
880-40965-73	FS-73	90	103
880-40965-74	FS-74	107	109
880-40965-75	FS-75	110	111
880-40965-76	FS-76	109	116
880-40965-77	FS-77	118	111
880-40965-78	FS-78	112	107
880-40965-79	FS-79	114	108
880-40965-80	FS-80	131 S1+	121
880-40965-81	FS-81	178 S1+	89
LCS 880-75804/1-A	Lab Control Sample	131 S1+	84
LCS 880-75824/1-A	Lab Control Sample	103	126
LCS 880-75825/1-A	Lab Control Sample	113	98
LCS 880-75826/1-A	Lab Control Sample	99	100
LCS 880-75827/1-A	Lab Control Sample	101	97
LCSD 880-75804/2-A	Lab Control Sample Dup	153 S1+	97
LCSD 880-75824/2-A	Lab Control Sample Dup	104	128
LCSD 880-75825/2-A	Lab Control Sample Dup	111	97
LCSD 880-75826/2-A	Lab Control Sample Dup	95	95
LCSD 880-75827/2-A	Lab Control Sample Dup	110	96

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Surrogate Summary

Client: Ensolum

Job ID: 880-40965-1

Project/Site: NexGen Produced Water Release

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-75803/5-A	Method Blank	87	78
MB 880-75804/5-A	Method Blank	89	79
MB 880-75824/5-A	Method Blank	69 S1-	98
MB 880-75825/5-A	Method Blank	77	93
MB 880-75826/5-A	Method Blank	72	99
MB 880-75827/5-A	Method Blank	122	111
MB 880-76120/5-A	Method Blank	77	97
MB 880-76207/5-A	Method Blank	72	90
MB 880-76237/5-A	Method Blank	137 S1+	133 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-40965-1	FS-1	100	87
880-40965-1 MS	FS-1	107	82
880-40965-1 MSD	FS-1	130	96
880-40965-2	FS-2	105	88
880-40965-3	FS-3	109	97
880-40965-4	FS-4	108	95
880-40965-5	FS-5	104	92
880-40965-6	FS-6	103	88
880-40965-7	FS-7	111	91
880-40965-8	FS-8	114	97
880-40965-9	FS-9	108	93
880-40965-10	FS-10	114	99
880-40965-11	FS-11	104	89
880-40965-12	FS-12	124	97
880-40965-13	FS-13	108	93
880-40965-14	FS-14	105	89
880-40965-15	FS-15	106	91
880-40965-16	FS-16	105	91
880-40965-17	FS-17	106	91
880-40965-18	FS-18	107	91
880-40965-19	FS-19	110	87
880-40965-20	FS-20	97	82
880-40965-21	FS-21	84	86
880-40965-21 MS	FS-21	77	69 S1-
880-40965-21 MSD	FS-21	79	72
880-40965-22	FS-22	102	105
880-40965-23	FS-23	78	79
880-40965-24	FS-24	116	116
880-40965-25	FS-25	107	106
880-40965-26	FS-26	104	104
880-40965-27	FS-27	95	95

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Surrogate Summary

Client: Ensolum

Job ID: 880-40965-1

Project/Site: NexGen Produced Water Release

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-40965-28	FS-28	94	96
880-40965-29	FS-29	97	99
880-40965-30	FS-30	88	89
880-40965-31	FS-31	82	86
880-40965-32	FS-32	88	92
880-40965-33	FS-33	95	98
880-40965-34	FS-34	82	85
880-40965-35	FS-35	74	76
880-40965-36	FS-36	90	91
880-40965-37	FS-37	97	101
880-40965-38	FS-38	85	90
880-40965-39	FS-39	81	86
880-40965-40	FS-40	68 S1-	72
880-40965-41	FS-41	82	75
880-40965-41 MS	FS-41	82	68 S1-
880-40965-41 MSD	FS-41	82	68 S1-
880-40965-42	FS-42	81	74
880-40965-43	FS-43	82	74
880-40965-44	FS-44	92	83
880-40965-45	FS-45	81	73
880-40965-46	FS-46	86	79
880-40965-47	FS-47	84	78
880-40965-48	FS-48	82	74
880-40965-49	FS-49	79	71
880-40965-50	FS-50	85	77
880-40965-51	FS-51	80	73
880-40965-52	FS-52	82	75
880-40965-53	FS-53	80	71
880-40965-54	FS-54	82	74
880-40965-55	FS-55	83	75
880-40965-56	FS-56	79	72
880-40965-57	FS-57	82	74
880-40965-58	FS-58	93	83
880-40965-59	FS-59	84	76
880-40965-60	FS-60	81	73
880-40965-61	FS-61	115	101
880-40965-61 MS	FS-61	109	90
880-40965-61 MSD	FS-61	112	91
880-40965-62	FS-62	105	91
880-40965-63	FS-63	119	107
880-40965-64	FS-64	111	99
880-40965-65	FS-65	109	94
880-40965-66	FS-66	109	101
880-40965-67	FS-67	109	97
880-40965-68	FS-68	122	106
880-40965-69	FS-69	118	106
880-40965-70	FS-70	109	94
880-40965-71	FS-71	104	93
880-40965-72	FS-72	106	91
880-40965-73	FS-73	102	91

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Surrogate Summary

Client: Ensolum

Job ID: 880-40965-1

Project/Site: NexGen Produced Water Release

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-40965-74	FS-74	109	93
880-40965-75	FS-75	106	92
880-40965-76	FS-76	105	93
880-40965-77	FS-77	103	92
880-40965-78	FS-78	104	95
880-40965-79	FS-79	113	99
880-40965-80	FS-80	105	95
880-40965-81	FS-81	109	113
LCS 880-75828/2-A	Lab Control Sample	137 S1+	143 S1+
LCS 880-75832/2-A	Lab Control Sample	113	132 S1+
LCS 880-75833/2-A	Lab Control Sample	109	117
LCS 880-75834/2-A	Lab Control Sample	101	108
LCS 880-75874/2-A	Lab Control Sample	114	132 S1+
LCSD 880-75828/3-A	Lab Control Sample Dup	99	101
LCSD 880-75832/3-A	Lab Control Sample Dup	97	109
LCSD 880-75833/3-A	Lab Control Sample Dup	97	104
LCSD 880-75834/3-A	Lab Control Sample Dup	90	97
LCSD 880-75874/3-A	Lab Control Sample Dup	95	104
MB 880-75828/1-A	Method Blank	151 S1+	141 S1+
MB 880-75832/1-A	Method Blank	113	129
MB 880-75833/1-A	Method Blank	123	120
MB 880-75834/1-A	Method Blank	159 S1+	148 S1+
MB 880-75874/1-A	Method Blank	139 S1+	155 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-75803/5-A
Matrix: Solid
Analysis Batch: 75796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75803

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 08:54	03/18/24 11:44	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 08:54	03/18/24 11:44	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 08:54	03/18/24 11:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 08:54	03/18/24 11:44	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 08:54	03/18/24 11:44	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 08:54	03/18/24 11:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/18/24 08:54	03/18/24 11:44	1
1,4-Difluorobenzene (Surr)	78		70 - 130				03/18/24 08:54	03/18/24 11:44	1

Lab Sample ID: MB 880-75804/5-A
Matrix: Solid
Analysis Batch: 75796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75804

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 08:57	03/19/24 01:08	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 08:57	03/19/24 01:08	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 08:57	03/19/24 01:08	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 08:57	03/19/24 01:08	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 08:57	03/19/24 01:08	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 08:57	03/19/24 01:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				03/18/24 08:57	03/19/24 01:08	1
1,4-Difluorobenzene (Surr)	79		70 - 130				03/18/24 08:57	03/19/24 01:08	1

Lab Sample ID: LCS 880-75804/1-A
Matrix: Solid
Analysis Batch: 75796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.1131		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1116		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				
1,4-Difluorobenzene (Surr)	84		70 - 130				

Lab Sample ID: LCSD 880-75804/2-A
Matrix: Solid
Analysis Batch: 75796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1114		mg/Kg		111	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-75804/2-A

Matrix: Solid

Analysis Batch: 75796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1149		mg/Kg		115	70 - 130		2	35
Ethylbenzene	0.100	0.1162		mg/Kg		116	70 - 130		4	35
m-Xylene & p-Xylene	0.200	0.2300		mg/Kg		115	70 - 130		5	35
o-Xylene	0.100	0.1198		mg/Kg		120	70 - 130		4	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-75824/5-A

Matrix: Solid

Analysis Batch: 76151

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75824

Analyte	MB		MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.0009193	J	0.00200	0.000385	mg/Kg		03/18/24 10:43	03/21/24 11:24	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:43	03/21/24 11:24	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:43	03/21/24 11:24	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:43	03/21/24 11:24	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 11:24	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:43	03/21/24 11:24	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	03/18/24 10:43	03/21/24 11:24	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/18/24 10:43	03/21/24 11:24	1

Lab Sample ID: LCS 880-75824/1-A

Matrix: Solid

Analysis Batch: 76151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Benzene	0.100	0.09988		mg/Kg		100	70 - 130	
Toluene	0.100	0.1008		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1076		mg/Kg		108	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

Lab Sample ID: LCSD 880-75824/2-A

Matrix: Solid

Analysis Batch: 76151

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75824

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Benzene	0.100	0.1056		mg/Kg		106	70 - 130		6	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130		6	35
Ethylbenzene	0.100	0.1144		mg/Kg		114	70 - 130		8	35

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-75824/2-A

Matrix: Solid

Analysis Batch: 76151

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75824

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130	6		35
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130	6		35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	104		70 - 130							
1,4-Difluorobenzene (Surr)	128		70 - 130							

Lab Sample ID: 880-40965-1 MS

Matrix: Solid

Analysis Batch: 76151

Client Sample ID: FS-1

Prep Type: Total/NA

Prep Batch: 75824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	0.000919	J B	0.0996	0.09023		mg/Kg		90	70 - 130			
Toluene	<0.000454	U	0.0996	0.09399		mg/Kg		94	70 - 130			
Ethylbenzene	<0.000563	U	0.0996	0.09831		mg/Kg		99	70 - 130			
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1988		mg/Kg		100	70 - 130			
o-Xylene	<0.000343	U	0.0996	0.09678		mg/Kg		97	70 - 130			
Surrogate	MS %Recovery	MS Qualifier	Limits									
4-Bromofluorobenzene (Surr)	100		70 - 130									
1,4-Difluorobenzene (Surr)	127		70 - 130									

Lab Sample ID: 880-40965-1 MSD

Matrix: Solid

Analysis Batch: 76151

Client Sample ID: FS-1

Prep Type: Total/NA

Prep Batch: 75824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	0.000919	J B	0.100	0.09089		mg/Kg		90	70 - 130	1		35
Toluene	<0.000454	U	0.100	0.09658		mg/Kg		96	70 - 130	3		35
Ethylbenzene	<0.000563	U	0.100	0.1046		mg/Kg		104	70 - 130	6		35
m-Xylene & p-Xylene	<0.00101	U	0.200	0.2085		mg/Kg		104	70 - 130	5		35
o-Xylene	<0.000343	U	0.100	0.1011		mg/Kg		101	70 - 130	4		35
Surrogate	MSD %Recovery	MSD Qualifier	Limits									
4-Bromofluorobenzene (Surr)	107		70 - 130									
1,4-Difluorobenzene (Surr)	125		70 - 130									

Lab Sample ID: MB 880-75825/5-A

Matrix: Solid

Analysis Batch: 76193

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75825

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:50	03/22/24 04:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:50	03/22/24 04:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:50	03/22/24 04:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:50	03/22/24 04:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 04:49	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:50	03/22/24 04:49	1

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	77		70 - 130	03/18/24 10:50	03/22/24 04:49	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/18/24 10:50	03/22/24 04:49	1

Lab Sample ID: LCS 880-75825/1-A
Matrix: Solid
Analysis Batch: 76193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1246		mg/Kg		125		70 - 130
Toluene	0.100	0.1184		mg/Kg		118		70 - 130
Ethylbenzene	0.100	0.1163		mg/Kg		116		70 - 130
m-Xylene & p-Xylene	0.200	0.2430		mg/Kg		122		70 - 130
o-Xylene	0.100	0.1191		mg/Kg		119		70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-75825/2-A
Matrix: Solid
Analysis Batch: 76193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75825

			Spike	LCSD	LCSD					%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		RPD	Limit
Benzene			0.100	0.1190		mg/Kg		119	70 - 130		5	35
Toluene			0.100	0.1093		mg/Kg		109	70 - 130		8	35
Ethylbenzene			0.100	0.1065		mg/Kg		106	70 - 130		9	35
m-Xylene & p-Xylene			0.200	0.2215		mg/Kg		111	70 - 130		9	35
o-Xylene			0.100	0.1096		mg/Kg		110	70 - 130		8	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-40965-21 MS
Matrix: Solid
Analysis Batch: 76193

Client Sample ID: FS-21
Prep Type: Total/NA
Prep Batch: 75825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	<0.000383	U	0.0996	0.1188		mg/Kg		119		70 - 130
Toluene	<0.000454	U	0.0996	0.1055		mg/Kg		106		70 - 130
Ethylbenzene	<0.000563	U	0.0996	0.1021		mg/Kg		102		70 - 130
m-Xylene & p-Xylene	<0.00101	U	0.199	0.2113		mg/Kg		106		70 - 130
o-Xylene	<0.000343	U	0.0996	0.1086		mg/Kg		109		70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-40965-21 MSD

Matrix: Solid

Analysis Batch: 76193

Client Sample ID: FS-21

Prep Type: Total/NA

Prep Batch: 75825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.100	0.1138		mg/Kg		114	70 - 130	4	35
Toluene	<0.000454	U	0.100	0.1025		mg/Kg		102	70 - 130	3	35
Ethylbenzene	<0.000563	U	0.100	0.09662		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene	<0.00101	U	0.200	0.1985		mg/Kg		99	70 - 130	6	35
o-Xylene	<0.000343	U	0.100	0.1064		mg/Kg		106	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-75826/5-A

Matrix: Solid

Analysis Batch: 76264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75826

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:52	03/22/24 22:22	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:52	03/22/24 22:22	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:52	03/22/24 22:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:52	03/22/24 22:22	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 22:22	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:52	03/22/24 22:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/18/24 10:52	03/22/24 22:22	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/18/24 10:52	03/22/24 22:22	1

Lab Sample ID: LCS 880-75826/1-A

Matrix: Solid

Analysis Batch: 76264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09360		mg/Kg		94	70 - 130
Toluene	0.100	0.09486		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09904		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09880		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-75826/2-A

Matrix: Solid

Analysis Batch: 76264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75826

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09960		mg/Kg		100	70 - 130	6	35
Toluene	0.100	0.09007		mg/Kg		90	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-75826/2-A

Matrix: Solid

Analysis Batch: 76264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75826

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Ethylbenzene	0.100	0.09132		mg/Kg		91	70 - 130	8		35
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130	7		35
o-Xylene	0.100	0.09197		mg/Kg		92	70 - 130	7		35

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

Lab Sample ID: 880-40965-41 MS

Matrix: Solid

Analysis Batch: 76264

Client Sample ID: FS-41

Prep Type: Total/NA

Prep Batch: 75826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.000383	U	0.0996	0.1012		mg/Kg		102	70 - 130	
Toluene	0.000459	J	0.0996	0.09099		mg/Kg		91	70 - 130	
Ethylbenzene	<0.000563	U	0.0996	0.09188		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1838		mg/Kg		92	70 - 130	
o-Xylene	<0.000343	U	0.0996	0.09451		mg/Kg		95	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-40965-41 MSD

Matrix: Solid

Analysis Batch: 76264

Client Sample ID: FS-41

Prep Type: Total/NA

Prep Batch: 75826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.000383	U	0.100	0.08782		mg/Kg		88	70 - 130	14		35
Toluene	0.000459	J	0.100	0.08594		mg/Kg		85	70 - 130	6		35
Ethylbenzene	<0.000563	U	0.100	0.09086		mg/Kg		91	70 - 130	1		35
m-Xylene & p-Xylene	<0.00101	U	0.200	0.1856		mg/Kg		93	70 - 130	1		35
o-Xylene	<0.000343	U	0.100	0.09485		mg/Kg		95	70 - 130	0		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-75827/5-A

Matrix: Solid

Analysis Batch: 76322

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75827

Analyte	MB		MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/18/24 10:55	03/23/24 04:02	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/18/24 10:55	03/23/24 04:02	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/18/24 10:55	03/23/24 04:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/18/24 10:55	03/23/24 04:02	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 04:02	1

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-75827/5-A

Matrix: Solid

Analysis Batch: 76322

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75827

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/18/24 10:55	03/23/24 04:02	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				03/18/24 10:55	03/23/24 04:02	1
1,4-Difluorobenzene (Surr)	111		70 - 130				03/18/24 10:55	03/23/24 04:02	1

Lab Sample ID: LCS 880-75827/1-A

Matrix: Solid

Analysis Batch: 76322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1152		mg/Kg		115	70 - 130
Toluene	0.100	0.1064		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1130		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1072		mg/Kg		107	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		70 - 130				
1,4-Difluorobenzene (Surr)	97		70 - 130				

Lab Sample ID: LCSD 880-75827/2-A

Matrix: Solid

Analysis Batch: 76322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75827

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1129		mg/Kg		113	70 - 130	2	35
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	4	35
Ethylbenzene	0.100	0.1173		mg/Kg		117	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		111	70 - 130	1	35
o-Xylene	0.100	0.1061		mg/Kg		106	70 - 130	1	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	96		70 - 130						

Lab Sample ID: 880-40965-61 MS

Matrix: Solid

Analysis Batch: 76322

Client Sample ID: FS-61

Prep Type: Total/NA

Prep Batch: 75827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000383	U	0.0996	0.1115		mg/Kg		112	70 - 130
Toluene	<0.000454	U	0.0996	0.08878		mg/Kg		89	70 - 130
Ethylbenzene	<0.000563	U	0.0996	0.09830		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1914		mg/Kg		96	70 - 130
o-Xylene	<0.000343	U	0.0996	0.1053		mg/Kg		106	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-40965-61 MS

Matrix: Solid

Analysis Batch: 76322

Client Sample ID: FS-61

Prep Type: Total/NA

Prep Batch: 75827

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-40965-61 MSD

Matrix: Solid

Analysis Batch: 76322

Client Sample ID: FS-61

Prep Type: Total/NA

Prep Batch: 75827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.100	0.1188		mg/Kg		119	70 - 130	6	35
Toluene	<0.000454	U	0.100	0.09208		mg/Kg		92	70 - 130	4	35
Ethylbenzene	<0.000563	U	0.100	0.1110		mg/Kg		111	70 - 130	12	35
m-Xylene & p-Xylene	<0.00101	U	0.200	0.2062		mg/Kg		103	70 - 130	7	35
o-Xylene	<0.000343	U	0.100	0.1130		mg/Kg		113	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-76120/5-A

Matrix: Solid

Analysis Batch: 76264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 76120

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00200	0.000385	mg/Kg		03/20/24 13:45	03/22/24 11:41	1
Toluene	<0.000453	U	0.00200	0.000456	mg/Kg		03/20/24 13:45	03/22/24 11:41	1
Ethylbenzene	<0.000562	U	0.00200	0.000565	mg/Kg		03/20/24 13:45	03/22/24 11:41	1
m-Xylene & p-Xylene	<0.00100	U	0.00400	0.00101	mg/Kg		03/20/24 13:45	03/22/24 11:41	1
o-Xylene	<0.000342	U	0.00200	0.000344	mg/Kg		03/20/24 13:45	03/22/24 11:41	1
Xylenes, Total	<0.00100	U	0.00200	0.000344	mg/Kg		03/20/24 13:45	03/22/24 11:41	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	77		70 - 130	03/20/24 13:45	03/22/24 11:41	1			
1,4-Difluorobenzene (Surr)	97		70 - 130	03/20/24 13:45	03/22/24 11:41	1			

Lab Sample ID: MB 880-76207/5-A

Matrix: Solid

Analysis Batch: 76193

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 76207

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/21/24 12:46	03/21/24 15:13	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/21/24 12:46	03/21/24 15:13	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/21/24 12:46	03/21/24 15:13	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/21/24 12:46	03/21/24 15:13	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/21/24 12:46	03/21/24 15:13	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/21/24 12:46	03/21/24 15:13	1

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-76207/5-A
Matrix: Solid
Analysis Batch: 76193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 76207

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	72		70 - 130			03/21/24 12:46	03/21/24 15:13	1	
1,4-Difluorobenzene (Surr)	90		70 - 130			03/21/24 12:46	03/21/24 15:13	1	

Lab Sample ID: MB 880-76237/5-A
Matrix: Solid
Analysis Batch: 76322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 76237

	MB	MB							
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/21/24 15:13	03/22/24 16:25	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/21/24 15:13	03/22/24 16:25	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/21/24 15:13	03/22/24 16:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/21/24 15:13	03/22/24 16:25	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/21/24 15:13	03/22/24 16:25	1
Xylenes, Total	<0.00101	U	0.00200	0.000344	mg/Kg		03/21/24 15:13	03/22/24 16:25	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			03/21/24 15:13	03/22/24 16:25	1	
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130			03/21/24 15:13	03/22/24 16:25	1	

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

Lab Sample ID: MB 880-75828/1-A
Matrix: Solid
Analysis Batch: 75940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75828

	MB	MB							
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 07:27	1
Diesel Range Organics (Over C10-C28)	15.45	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 07:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 07:27	1
Total TPH	15.45	J	50.0	15.0	mg/Kg		03/18/24 11:00	03/19/24 07:27	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane	151	S1+	70 - 130			03/18/24 11:00	03/19/24 07:27	1	
o-Terphenyl	141	S1+	70 - 130			03/18/24 11:00	03/19/24 07:27	1	

Lab Sample ID: LCS 880-75828/2-A
Matrix: Solid
Analysis Batch: 75940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75828

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	1137		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	1185		mg/Kg		119	70 - 130	

	LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	137	S1+	70 - 130		

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-75828/2-A
Matrix: Solid
Analysis Batch: 75940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75828

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	143	S1+	70 - 130

Lab Sample ID: LCSD 880-75828/3-A
Matrix: Solid
Analysis Batch: 75940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75828

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1060		mg/Kg		106	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1046		mg/Kg		105	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 880-40965-1 MS
Matrix: Solid
Analysis Batch: 75940

Client Sample ID: FS-1
Prep Type: Total/NA
Prep Batch: 75828

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	46.1	J F2	994	863.4		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	21.5	J B	994	1049		mg/Kg		103	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: 880-40965-1 MSD
Matrix: Solid
Analysis Batch: 75940

Client Sample ID: FS-1
Prep Type: Total/NA
Prep Batch: 75828

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	46.1	J F2	994	1193	F2	mg/Kg		115	70 - 130	32	20
Diesel Range Organics (Over C10-C28)	21.5	J B	994	1270		mg/Kg		126	70 - 130	19	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	130		70 - 130								
o-Terphenyl	96		70 - 130								

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-75832/1-A
Matrix: Solid
Analysis Batch: 75942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75832

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.02	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 07:27	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 07:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 07:27	1
Total TPH	19.02	J	50.0	15.0	mg/Kg		03/18/24 11:04	03/19/24 07:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	03/18/24 11:04	03/19/24 07:27	1
o-Terphenyl	129		70 - 130	03/18/24 11:04	03/19/24 07:27	1

Lab Sample ID: LCS 880-75832/2-A
Matrix: Solid
Analysis Batch: 75942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1031		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	962.5		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: LCSD 880-75832/3-A
Matrix: Solid
Analysis Batch: 75942

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	949.3		mg/Kg		95	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	933.0		mg/Kg		93	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 880-40965-21 MS
Matrix: Solid
Analysis Batch: 75942

Client Sample ID: FS-21
Prep Type: Total/NA
Prep Batch: 75832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	31.7	J B	1000	1186		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	38.6	J F1	1000	704.8	F1	mg/Kg		66	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-40965-21 MS

Matrix: Solid

Analysis Batch: 75942

Client Sample ID: FS-21

Prep Type: Total/NA

Prep Batch: 75832

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 880-40965-21 MSD

Matrix: Solid

Analysis Batch: 75942

Client Sample ID: FS-21

Prep Type: Total/NA

Prep Batch: 75832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	31.7	J B	1000	1136		mg/Kg		110	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	38.6	J F1	1000	750.0		mg/Kg		71	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	79		70 - 130								
o-Terphenyl	72		70 - 130								

Lab Sample ID: MB 880-75833/1-A

Matrix: Solid

Analysis Batch: 75945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75833

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.21	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 07:26	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 07:26	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 07:26	1
Total TPH	16.21	J	50.0	15.0	mg/Kg		03/18/24 11:07	03/19/24 07:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				03/18/24 11:07	03/19/24 07:26	1
o-Terphenyl	120		70 - 130				03/18/24 11:07	03/19/24 07:26	1

Lab Sample ID: LCS 880-75833/2-A

Matrix: Solid

Analysis Batch: 75945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	958.2		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	992.3		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	109		70 - 130				
o-Terphenyl	117		70 - 130				

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-75833/3-A

Matrix: Solid

Analysis Batch: 75945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1033		mg/Kg		103	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1015		mg/Kg		101	70 - 130	2	20
		LCSD %Recovery	LCSD Qualifier						
Surrogate									
1-Chlorooctane		97							
o-Terphenyl		104							

Lab Sample ID: 880-40965-41 MS

Matrix: Solid

Analysis Batch: 75945

Client Sample ID: FS-41

Prep Type: Total/NA

Prep Batch: 75833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	20.2	J B	1010	793.7		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	16.2	J	1010	814.3		mg/Kg		79	70 - 130		
		MS %Recovery	MS Qualifier								
Surrogate											
1-Chlorooctane		82									
o-Terphenyl		68	S1-								

Lab Sample ID: 880-40965-41 MSD

Matrix: Solid

Analysis Batch: 75945

Client Sample ID: FS-41

Prep Type: Total/NA

Prep Batch: 75833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	20.2	J B	1010	810.2		mg/Kg		78	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	16.2	J	1010	820.2		mg/Kg		80	70 - 130	1	20
		MSD %Recovery	MSD Qualifier								
Surrogate											
1-Chlorooctane		82									
o-Terphenyl		68	S1-								

Lab Sample ID: MB 880-75834/1-A

Matrix: Solid

Analysis Batch: 76065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75834

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 07:29	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 07:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 07:29	1
Total TPH	<15.0	U	50.0	15.0	mg/Kg		03/18/24 11:10	03/20/24 07:29	1

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-75834/1-A

Matrix: Solid

Analysis Batch: 76065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75834

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	03/18/24 11:10	03/20/24 07:29	1
o-Terphenyl	148	S1+	70 - 130	03/18/24 11:10	03/20/24 07:29	1

Lab Sample ID: LCS 880-75834/2-A

Matrix: Solid

Analysis Batch: 76065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75834

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	848.5		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	846.3		mg/Kg		85	70 - 130		
Surrogate		LCS	LCS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: LCSD 880-75834/3-A

Matrix: Solid

Analysis Batch: 76065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75834

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	872.1		mg/Kg		87	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	940.4		mg/Kg		94	70 - 130	11	20	
Surrogate		LCSD	LCSD									
	%Recovery	Qualifier	Limits									
1-Chlorooctane	90		70 - 130									
o-Terphenyl	97		70 - 130									

Lab Sample ID: 880-40965-61 MS

Matrix: Solid

Analysis Batch: 76065

Client Sample ID: FS-61

Prep Type: Total/NA

Prep Batch: 75834

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	1000	1229		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.0	U	1000	1141		mg/Kg		114	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	90		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-40965-61 MSD

Matrix: Solid

Analysis Batch: 76065

Client Sample ID: FS-61

Prep Type: Total/NA

Prep Batch: 75834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	1000	1268		mg/Kg		127	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<15.0	U	1000	1176		mg/Kg		117	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	91		70 - 130								

Lab Sample ID: MB 880-75874/1-A

Matrix: Solid

Analysis Batch: 76067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75874

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/18/24 12:59	03/20/24 07:29	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/18/24 12:59	03/20/24 07:29	1
Oil Range Organics (Over C28-C36)	21.09	J	50.0	15.0	mg/Kg		03/18/24 12:59	03/20/24 07:29	1
Total TPH	21.09	J	50.0	15.0	mg/Kg		03/18/24 12:59	03/20/24 07:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				03/18/24 12:59	03/20/24 07:29	1
o-Terphenyl	155	S1+	70 - 130				03/18/24 12:59	03/20/24 07:29	1

Lab Sample ID: LCS 880-75874/2-A

Matrix: Solid

Analysis Batch: 76067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	951.6		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	930.0		mg/Kg		93	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	132	S1+	70 - 130						

Lab Sample ID: LCSD 880-75874/3-A

Matrix: Solid

Analysis Batch: 76067

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	926.7		mg/Kg		93	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	945.9		mg/Kg		95	70 - 130	2	20

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-75874/3-A				Client Sample ID: Lab Control Sample Dup			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 76067				Prep Batch: 75874			
	LCSD	LCSD					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	95		70 - 130				
o-Terphenyl	104		70 - 130				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75953/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Soluble		
Analysis Batch: 76030									
	MB	MB							
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			03/20/24 02:44	1

Lab Sample ID: LCS 880-75953/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 76030									
			Spike	LCS	LCS			%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride			250	249.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-75953/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 76030											
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-40965-1 MS

Client Sample ID: FS-1

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 76030

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	106	F1	252	390.8	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 880-40965-1 MSD

Client Sample ID: FS-1

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 76030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	106	F1	252	392.0	F1	mg/Kg	-	114	90 - 110	0	20

Lab Sample ID: 880-40965-11 MS

Client Sample ID: FS-11

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 76030

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	221		252	485.2		mg/Kg		105	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-40965-11 MSD

Matrix: Solid

Analysis Batch: 76030

Client Sample ID: FS-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	221		252	486.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-75958/1-A

Matrix: Solid

Analysis Batch: 76032

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			03/20/24 03:41	1

Lab Sample ID: LCS 880-75958/2-A

Matrix: Solid

Analysis Batch: 76032

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.0		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-75958/3-A

Matrix: Solid

Analysis Batch: 76032

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.4		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-40965-21 MS

Matrix: Solid

Analysis Batch: 76032

Client Sample ID: FS-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	113		250	380.4		mg/Kg		107	90 - 110

Lab Sample ID: 880-40965-21 MSD

Matrix: Solid

Analysis Batch: 76032

Client Sample ID: FS-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	113		250	381.2		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-40965-31 MS

Matrix: Solid

Analysis Batch: 76032

Client Sample ID: FS-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	309		249	556.2		mg/Kg		100	90 - 110

Lab Sample ID: 880-40965-31 MSD

Matrix: Solid

Analysis Batch: 76032

Client Sample ID: FS-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	309		249	556.9		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75980/1-A

Matrix: Solid

Analysis Batch: 76035

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			03/20/24 05:58	1

Lab Sample ID: LCS 880-75980/2-A

Matrix: Solid

Analysis Batch: 76035

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-75980/3-A

Matrix: Solid

Analysis Batch: 76035

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-40965-41 MS

Matrix: Solid

Analysis Batch: 76035

Client Sample ID: FS-41

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	64.6		249	315.5		mg/Kg		101	90 - 110

Lab Sample ID: 880-40965-41 MSD

Matrix: Solid

Analysis Batch: 76035

Client Sample ID: FS-41

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	64.6		249	315.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-40965-51 MS

Matrix: Solid

Analysis Batch: 76035

Client Sample ID: FS-51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	103		253	372.6		mg/Kg		107	90 - 110

Lab Sample ID: 880-40965-51 MSD

Matrix: Solid

Analysis Batch: 76035

Client Sample ID: FS-51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	103		253	372.9		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-75994/1-A

Matrix: Solid

Analysis Batch: 76038

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			03/20/24 16:16	1

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-75994/2-A

Matrix: Solid

Analysis Batch: 76038

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-75994/3-A

Matrix: Solid

Analysis Batch: 76038

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-40965-61 MS

Matrix: Solid

Analysis Batch: 76038

Client Sample ID: FS-61

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	63.7	F1	249	368.9	F1	mg/Kg		123	90 - 110

Lab Sample ID: 880-40965-61 MSD

Matrix: Solid

Analysis Batch: 76038

Client Sample ID: FS-61

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63.7	F1	249	369.6	F1	mg/Kg		123	90 - 110	0	20

Lab Sample ID: 880-40965-71 MS

Matrix: Solid

Analysis Batch: 76038

Client Sample ID: FS-71

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	60.0	F1	248	335.1	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-40965-71 MSD

Matrix: Solid

Analysis Batch: 76038

Client Sample ID: FS-71

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.0	F1	248	334.0	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: MB 880-76018/1-A

Matrix: Solid

Analysis Batch: 76086

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			03/20/24 10:19	1

Lab Sample ID: LCS 880-76018/2-A

Matrix: Solid

Analysis Batch: 76086

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.4		mg/Kg		99	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-76018/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 76086											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.1		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-40965-81 MS				Client Sample ID: FS-81							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 76086											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	42.4	F1	250	261.2	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-40965-81 MSD				Client Sample ID: FS-81							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 76086											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	42.4	F1	250	249.9	F1	mg/Kg		83	90 - 110	4	20

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 75796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-81	FS-81	Total/NA	Solid	8021B	75804
MB 880-75803/5-A	Method Blank	Total/NA	Solid	8021B	75803
MB 880-75804/5-A	Method Blank	Total/NA	Solid	8021B	75804
LCS 880-75804/1-A	Lab Control Sample	Total/NA	Solid	8021B	75804
LCSD 880-75804/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75804

Prep Batch: 75803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-75803/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 75804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-81	FS-81	Total/NA	Solid	5035	
MB 880-75804/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75804/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75804/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 75824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Total/NA	Solid	5035	
880-40965-2	FS-2	Total/NA	Solid	5035	
880-40965-3	FS-3	Total/NA	Solid	5035	
880-40965-4	FS-4	Total/NA	Solid	5035	
880-40965-5	FS-5	Total/NA	Solid	5035	
880-40965-6	FS-6	Total/NA	Solid	5035	
880-40965-7	FS-7	Total/NA	Solid	5035	
880-40965-8	FS-8	Total/NA	Solid	5035	
880-40965-9	FS-9	Total/NA	Solid	5035	
880-40965-10	FS-10	Total/NA	Solid	5035	
880-40965-11	FS-11	Total/NA	Solid	5035	
880-40965-12	FS-12	Total/NA	Solid	5035	
880-40965-13	FS-13	Total/NA	Solid	5035	
880-40965-14	FS-14	Total/NA	Solid	5035	
880-40965-15	FS-15	Total/NA	Solid	5035	
880-40965-16	FS-16	Total/NA	Solid	5035	
880-40965-17	FS-17	Total/NA	Solid	5035	
880-40965-18	FS-18	Total/NA	Solid	5035	
880-40965-19	FS-19	Total/NA	Solid	5035	
880-40965-20	FS-20	Total/NA	Solid	5035	
MB 880-75824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40965-1 MS	FS-1	Total/NA	Solid	5035	
880-40965-1 MSD	FS-1	Total/NA	Solid	5035	

Prep Batch: 75825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-21	FS-21	Total/NA	Solid	5035	
880-40965-22	FS-22	Total/NA	Solid	5035	
880-40965-23	FS-23	Total/NA	Solid	5035	
880-40965-24	FS-24	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 75825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-25	FS-25	Total/NA	Solid	5035	
880-40965-26	FS-26	Total/NA	Solid	5035	
880-40965-27	FS-27	Total/NA	Solid	5035	
880-40965-28	FS-28	Total/NA	Solid	5035	
880-40965-29	FS-29	Total/NA	Solid	5035	
880-40965-30	FS-30	Total/NA	Solid	5035	
880-40965-31	FS-31	Total/NA	Solid	5035	
880-40965-32	FS-32	Total/NA	Solid	5035	
880-40965-33	FS-33	Total/NA	Solid	5035	
880-40965-34	FS-34	Total/NA	Solid	5035	
880-40965-35	FS-35	Total/NA	Solid	5035	
880-40965-36	FS-36	Total/NA	Solid	5035	
880-40965-37	FS-37	Total/NA	Solid	5035	
880-40965-38	FS-38	Total/NA	Solid	5035	
880-40965-39	FS-39	Total/NA	Solid	5035	
880-40965-40	FS-40	Total/NA	Solid	5035	
MB 880-75825/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75825/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75825/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40965-21 MS	FS-21	Total/NA	Solid	5035	
880-40965-21 MSD	FS-21	Total/NA	Solid	5035	

Prep Batch: 75826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-41	FS-41	Total/NA	Solid	5035	
880-40965-42	FS-42	Total/NA	Solid	5035	
880-40965-43	FS-43	Total/NA	Solid	5035	
880-40965-44	FS-44	Total/NA	Solid	5035	
880-40965-45	FS-45	Total/NA	Solid	5035	
880-40965-46	FS-46	Total/NA	Solid	5035	
880-40965-47	FS-47	Total/NA	Solid	5035	
880-40965-48	FS-48	Total/NA	Solid	5035	
880-40965-49	FS-49	Total/NA	Solid	5035	
880-40965-50	FS-50	Total/NA	Solid	5035	
880-40965-51	FS-51	Total/NA	Solid	5035	
880-40965-52	FS-52	Total/NA	Solid	5035	
880-40965-53	FS-53	Total/NA	Solid	5035	
880-40965-54	FS-54	Total/NA	Solid	5035	
880-40965-55	FS-55	Total/NA	Solid	5035	
880-40965-56	FS-56	Total/NA	Solid	5035	
880-40965-57	FS-57	Total/NA	Solid	5035	
880-40965-58	FS-58	Total/NA	Solid	5035	
880-40965-59	FS-59	Total/NA	Solid	5035	
880-40965-60	FS-60	Total/NA	Solid	5035	
MB 880-75826/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75826/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75826/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40965-41 MS	FS-41	Total/NA	Solid	5035	
880-40965-41 MSD	FS-41	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 75827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-61	FS-61	Total/NA	Solid	5035	
880-40965-62	FS-62	Total/NA	Solid	5035	
880-40965-63	FS-63	Total/NA	Solid	5035	
880-40965-64	FS-64	Total/NA	Solid	5035	
880-40965-65	FS-65	Total/NA	Solid	5035	
880-40965-66	FS-66	Total/NA	Solid	5035	
880-40965-67	FS-67	Total/NA	Solid	5035	
880-40965-68	FS-68	Total/NA	Solid	5035	
880-40965-69	FS-69	Total/NA	Solid	5035	
880-40965-70	FS-70	Total/NA	Solid	5035	
880-40965-71	FS-71	Total/NA	Solid	5035	
880-40965-72	FS-72	Total/NA	Solid	5035	
880-40965-73	FS-73	Total/NA	Solid	5035	
880-40965-74	FS-74	Total/NA	Solid	5035	
880-40965-75	FS-75	Total/NA	Solid	5035	
880-40965-76	FS-76	Total/NA	Solid	5035	
880-40965-77	FS-77	Total/NA	Solid	5035	
880-40965-78	FS-78	Total/NA	Solid	5035	
880-40965-79	FS-79	Total/NA	Solid	5035	
880-40965-80	FS-80	Total/NA	Solid	5035	
MB 880-75827/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75827/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75827/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40965-61 MS	FS-61	Total/NA	Solid	5035	
880-40965-61 MSD	FS-61	Total/NA	Solid	5035	

Prep Batch: 76120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-76120/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 76135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Total/NA	Solid	Total BTEX	
880-40965-2	FS-2	Total/NA	Solid	Total BTEX	
880-40965-3	FS-3	Total/NA	Solid	Total BTEX	
880-40965-4	FS-4	Total/NA	Solid	Total BTEX	
880-40965-5	FS-5	Total/NA	Solid	Total BTEX	
880-40965-6	FS-6	Total/NA	Solid	Total BTEX	
880-40965-7	FS-7	Total/NA	Solid	Total BTEX	
880-40965-8	FS-8	Total/NA	Solid	Total BTEX	
880-40965-9	FS-9	Total/NA	Solid	Total BTEX	
880-40965-10	FS-10	Total/NA	Solid	Total BTEX	
880-40965-11	FS-11	Total/NA	Solid	Total BTEX	
880-40965-12	FS-12	Total/NA	Solid	Total BTEX	
880-40965-13	FS-13	Total/NA	Solid	Total BTEX	
880-40965-14	FS-14	Total/NA	Solid	Total BTEX	
880-40965-15	FS-15	Total/NA	Solid	Total BTEX	
880-40965-16	FS-16	Total/NA	Solid	Total BTEX	
880-40965-17	FS-17	Total/NA	Solid	Total BTEX	
880-40965-18	FS-18	Total/NA	Solid	Total BTEX	
880-40965-19	FS-19	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 76135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-20	FS-20	Total/NA	Solid	Total BTEX	
880-40965-21	FS-21	Total/NA	Solid	Total BTEX	
880-40965-22	FS-22	Total/NA	Solid	Total BTEX	
880-40965-23	FS-23	Total/NA	Solid	Total BTEX	
880-40965-24	FS-24	Total/NA	Solid	Total BTEX	
880-40965-25	FS-25	Total/NA	Solid	Total BTEX	
880-40965-26	FS-26	Total/NA	Solid	Total BTEX	
880-40965-27	FS-27	Total/NA	Solid	Total BTEX	
880-40965-28	FS-28	Total/NA	Solid	Total BTEX	
880-40965-29	FS-29	Total/NA	Solid	Total BTEX	
880-40965-30	FS-30	Total/NA	Solid	Total BTEX	
880-40965-31	FS-31	Total/NA	Solid	Total BTEX	
880-40965-32	FS-32	Total/NA	Solid	Total BTEX	
880-40965-33	FS-33	Total/NA	Solid	Total BTEX	
880-40965-34	FS-34	Total/NA	Solid	Total BTEX	
880-40965-35	FS-35	Total/NA	Solid	Total BTEX	
880-40965-36	FS-36	Total/NA	Solid	Total BTEX	
880-40965-37	FS-37	Total/NA	Solid	Total BTEX	
880-40965-38	FS-38	Total/NA	Solid	Total BTEX	
880-40965-39	FS-39	Total/NA	Solid	Total BTEX	
880-40965-40	FS-40	Total/NA	Solid	Total BTEX	
880-40965-41	FS-41	Total/NA	Solid	Total BTEX	
880-40965-42	FS-42	Total/NA	Solid	Total BTEX	
880-40965-43	FS-43	Total/NA	Solid	Total BTEX	
880-40965-44	FS-44	Total/NA	Solid	Total BTEX	
880-40965-45	FS-45	Total/NA	Solid	Total BTEX	
880-40965-46	FS-46	Total/NA	Solid	Total BTEX	
880-40965-47	FS-47	Total/NA	Solid	Total BTEX	
880-40965-48	FS-48	Total/NA	Solid	Total BTEX	
880-40965-49	FS-49	Total/NA	Solid	Total BTEX	
880-40965-50	FS-50	Total/NA	Solid	Total BTEX	
880-40965-51	FS-51	Total/NA	Solid	Total BTEX	
880-40965-52	FS-52	Total/NA	Solid	Total BTEX	
880-40965-53	FS-53	Total/NA	Solid	Total BTEX	
880-40965-54	FS-54	Total/NA	Solid	Total BTEX	
880-40965-55	FS-55	Total/NA	Solid	Total BTEX	
880-40965-56	FS-56	Total/NA	Solid	Total BTEX	
880-40965-57	FS-57	Total/NA	Solid	Total BTEX	
880-40965-58	FS-58	Total/NA	Solid	Total BTEX	
880-40965-59	FS-59	Total/NA	Solid	Total BTEX	
880-40965-60	FS-60	Total/NA	Solid	Total BTEX	
880-40965-61	FS-61	Total/NA	Solid	Total BTEX	
880-40965-62	FS-62	Total/NA	Solid	Total BTEX	
880-40965-63	FS-63	Total/NA	Solid	Total BTEX	
880-40965-64	FS-64	Total/NA	Solid	Total BTEX	
880-40965-65	FS-65	Total/NA	Solid	Total BTEX	
880-40965-66	FS-66	Total/NA	Solid	Total BTEX	
880-40965-67	FS-67	Total/NA	Solid	Total BTEX	
880-40965-68	FS-68	Total/NA	Solid	Total BTEX	
880-40965-69	FS-69	Total/NA	Solid	Total BTEX	
880-40965-70	FS-70	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 76135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-71	FS-71	Total/NA	Solid	Total BTEX	
880-40965-72	FS-72	Total/NA	Solid	Total BTEX	
880-40965-73	FS-73	Total/NA	Solid	Total BTEX	
880-40965-74	FS-74	Total/NA	Solid	Total BTEX	
880-40965-75	FS-75	Total/NA	Solid	Total BTEX	
880-40965-76	FS-76	Total/NA	Solid	Total BTEX	
880-40965-77	FS-77	Total/NA	Solid	Total BTEX	
880-40965-78	FS-78	Total/NA	Solid	Total BTEX	
880-40965-79	FS-79	Total/NA	Solid	Total BTEX	
880-40965-80	FS-80	Total/NA	Solid	Total BTEX	
880-40965-81	FS-81	Total/NA	Solid	Total BTEX	

Analysis Batch: 76151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Total/NA	Solid	8021B	75824
880-40965-2	FS-2	Total/NA	Solid	8021B	75824
880-40965-3	FS-3	Total/NA	Solid	8021B	75824
880-40965-4	FS-4	Total/NA	Solid	8021B	75824
880-40965-5	FS-5	Total/NA	Solid	8021B	75824
880-40965-6	FS-6	Total/NA	Solid	8021B	75824
880-40965-7	FS-7	Total/NA	Solid	8021B	75824
880-40965-8	FS-8	Total/NA	Solid	8021B	75824
880-40965-9	FS-9	Total/NA	Solid	8021B	75824
880-40965-10	FS-10	Total/NA	Solid	8021B	75824
880-40965-11	FS-11	Total/NA	Solid	8021B	75824
880-40965-12	FS-12	Total/NA	Solid	8021B	75824
880-40965-13	FS-13	Total/NA	Solid	8021B	75824
880-40965-14	FS-14	Total/NA	Solid	8021B	75824
880-40965-15	FS-15	Total/NA	Solid	8021B	75824
880-40965-16	FS-16	Total/NA	Solid	8021B	75824
880-40965-17	FS-17	Total/NA	Solid	8021B	75824
880-40965-18	FS-18	Total/NA	Solid	8021B	75824
880-40965-19	FS-19	Total/NA	Solid	8021B	75824
880-40965-20	FS-20	Total/NA	Solid	8021B	75824
MB 880-75824/5-A	Method Blank	Total/NA	Solid	8021B	75824
LCS 880-75824/1-A	Lab Control Sample	Total/NA	Solid	8021B	75824
LCSD 880-75824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75824
880-40965-1 MS	FS-1	Total/NA	Solid	8021B	75824
880-40965-1 MSD	FS-1	Total/NA	Solid	8021B	75824

Analysis Batch: 76193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-21	FS-21	Total/NA	Solid	8021B	75825
880-40965-22	FS-22	Total/NA	Solid	8021B	75825
880-40965-23	FS-23	Total/NA	Solid	8021B	75825
880-40965-24	FS-24	Total/NA	Solid	8021B	75825
880-40965-25	FS-25	Total/NA	Solid	8021B	75825
880-40965-26	FS-26	Total/NA	Solid	8021B	75825
880-40965-27	FS-27	Total/NA	Solid	8021B	75825
880-40965-28	FS-28	Total/NA	Solid	8021B	75825
880-40965-29	FS-29	Total/NA	Solid	8021B	75825

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QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 76193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-30	FS-30	Total/NA	Solid	8021B	75825
880-40965-31	FS-31	Total/NA	Solid	8021B	75825
880-40965-32	FS-32	Total/NA	Solid	8021B	75825
880-40965-33	FS-33	Total/NA	Solid	8021B	75825
880-40965-34	FS-34	Total/NA	Solid	8021B	75825
880-40965-35	FS-35	Total/NA	Solid	8021B	75825
880-40965-36	FS-36	Total/NA	Solid	8021B	75825
880-40965-37	FS-37	Total/NA	Solid	8021B	75825
880-40965-38	FS-38	Total/NA	Solid	8021B	75825
880-40965-39	FS-39	Total/NA	Solid	8021B	75825
880-40965-40	FS-40	Total/NA	Solid	8021B	75825
MB 880-75825/5-A	Method Blank	Total/NA	Solid	8021B	75825
MB 880-76207/5-A	Method Blank	Total/NA	Solid	8021B	76207
LCS 880-75825/1-A	Lab Control Sample	Total/NA	Solid	8021B	75825
LCSD 880-75825/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75825
880-40965-21 MS	FS-21	Total/NA	Solid	8021B	75825
880-40965-21 MSD	FS-21	Total/NA	Solid	8021B	75825

Prep Batch: 76207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-76207/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 76237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-76237/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 76264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-41	FS-41	Total/NA	Solid	8021B	75826
880-40965-42	FS-42	Total/NA	Solid	8021B	75826
880-40965-43	FS-43	Total/NA	Solid	8021B	75826
880-40965-44	FS-44	Total/NA	Solid	8021B	75826
880-40965-45	FS-45	Total/NA	Solid	8021B	75826
880-40965-46	FS-46	Total/NA	Solid	8021B	75826
880-40965-47	FS-47	Total/NA	Solid	8021B	75826
880-40965-48	FS-48	Total/NA	Solid	8021B	75826
880-40965-49	FS-49	Total/NA	Solid	8021B	75826
880-40965-50	FS-50	Total/NA	Solid	8021B	75826
880-40965-51	FS-51	Total/NA	Solid	8021B	75826
880-40965-52	FS-52	Total/NA	Solid	8021B	75826
880-40965-53	FS-53	Total/NA	Solid	8021B	75826
880-40965-54	FS-54	Total/NA	Solid	8021B	75826
880-40965-55	FS-55	Total/NA	Solid	8021B	75826
880-40965-56	FS-56	Total/NA	Solid	8021B	75826
880-40965-57	FS-57	Total/NA	Solid	8021B	75826
880-40965-58	FS-58	Total/NA	Solid	8021B	75826
880-40965-59	FS-59	Total/NA	Solid	8021B	75826
880-40965-60	FS-60	Total/NA	Solid	8021B	75826
MB 880-75826/5-A	Method Blank	Total/NA	Solid	8021B	75826
MB 880-76120/5-A	Method Blank	Total/NA	Solid	8021B	76120
LCS 880-75826/1-A	Lab Control Sample	Total/NA	Solid	8021B	75826

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QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 76264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-75826/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75826
880-40965-41 MS	FS-41	Total/NA	Solid	8021B	75826
880-40965-41 MSD	FS-41	Total/NA	Solid	8021B	75826

Analysis Batch: 76322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-61	FS-61	Total/NA	Solid	8021B	75827
880-40965-62	FS-62	Total/NA	Solid	8021B	75827
880-40965-63	FS-63	Total/NA	Solid	8021B	75827
880-40965-64	FS-64	Total/NA	Solid	8021B	75827
880-40965-65	FS-65	Total/NA	Solid	8021B	75827
880-40965-66	FS-66	Total/NA	Solid	8021B	75827
880-40965-67	FS-67	Total/NA	Solid	8021B	75827
880-40965-68	FS-68	Total/NA	Solid	8021B	75827
880-40965-69	FS-69	Total/NA	Solid	8021B	75827
880-40965-70	FS-70	Total/NA	Solid	8021B	75827
880-40965-71	FS-71	Total/NA	Solid	8021B	75827
880-40965-72	FS-72	Total/NA	Solid	8021B	75827
880-40965-73	FS-73	Total/NA	Solid	8021B	75827
880-40965-74	FS-74	Total/NA	Solid	8021B	75827
880-40965-75	FS-75	Total/NA	Solid	8021B	75827
880-40965-76	FS-76	Total/NA	Solid	8021B	75827
880-40965-77	FS-77	Total/NA	Solid	8021B	75827
880-40965-78	FS-78	Total/NA	Solid	8021B	75827
880-40965-79	FS-79	Total/NA	Solid	8021B	75827
880-40965-80	FS-80	Total/NA	Solid	8021B	75827
MB 880-75827/5-A	Method Blank	Total/NA	Solid	8021B	75827
MB 880-76237/5-A	Method Blank	Total/NA	Solid	8021B	76237
LCS 880-75827/1-A	Lab Control Sample	Total/NA	Solid	8021B	75827
LCSD 880-75827/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75827
880-40965-61 MS	FS-61	Total/NA	Solid	8021B	75827
880-40965-61 MSD	FS-61	Total/NA	Solid	8021B	75827

GC Semi VOA

Prep Batch: 75828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Total/NA	Solid	8015NM Prep	
880-40965-2	FS-2	Total/NA	Solid	8015NM Prep	
880-40965-3	FS-3	Total/NA	Solid	8015NM Prep	
880-40965-4	FS-4	Total/NA	Solid	8015NM Prep	
880-40965-5	FS-5	Total/NA	Solid	8015NM Prep	
880-40965-6	FS-6	Total/NA	Solid	8015NM Prep	
880-40965-7	FS-7	Total/NA	Solid	8015NM Prep	
880-40965-8	FS-8	Total/NA	Solid	8015NM Prep	
880-40965-9	FS-9	Total/NA	Solid	8015NM Prep	
880-40965-10	FS-10	Total/NA	Solid	8015NM Prep	
880-40965-11	FS-11	Total/NA	Solid	8015NM Prep	
880-40965-12	FS-12	Total/NA	Solid	8015NM Prep	
880-40965-13	FS-13	Total/NA	Solid	8015NM Prep	
880-40965-14	FS-14	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 75828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-15	FS-15	Total/NA	Solid	8015NM Prep	
880-40965-16	FS-16	Total/NA	Solid	8015NM Prep	
880-40965-17	FS-17	Total/NA	Solid	8015NM Prep	
880-40965-18	FS-18	Total/NA	Solid	8015NM Prep	
880-40965-19	FS-19	Total/NA	Solid	8015NM Prep	
880-40965-20	FS-20	Total/NA	Solid	8015NM Prep	
MB 880-75828/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75828/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75828/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40965-1 MS	FS-1	Total/NA	Solid	8015NM Prep	
880-40965-1 MSD	FS-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 75832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-21	FS-21	Total/NA	Solid	8015NM Prep	
880-40965-22	FS-22	Total/NA	Solid	8015NM Prep	
880-40965-23	FS-23	Total/NA	Solid	8015NM Prep	
880-40965-24	FS-24	Total/NA	Solid	8015NM Prep	
880-40965-25	FS-25	Total/NA	Solid	8015NM Prep	
880-40965-26	FS-26	Total/NA	Solid	8015NM Prep	
880-40965-27	FS-27	Total/NA	Solid	8015NM Prep	
880-40965-28	FS-28	Total/NA	Solid	8015NM Prep	
880-40965-29	FS-29	Total/NA	Solid	8015NM Prep	
880-40965-30	FS-30	Total/NA	Solid	8015NM Prep	
880-40965-31	FS-31	Total/NA	Solid	8015NM Prep	
880-40965-32	FS-32	Total/NA	Solid	8015NM Prep	
880-40965-33	FS-33	Total/NA	Solid	8015NM Prep	
880-40965-34	FS-34	Total/NA	Solid	8015NM Prep	
880-40965-35	FS-35	Total/NA	Solid	8015NM Prep	
880-40965-36	FS-36	Total/NA	Solid	8015NM Prep	
880-40965-37	FS-37	Total/NA	Solid	8015NM Prep	
880-40965-38	FS-38	Total/NA	Solid	8015NM Prep	
880-40965-39	FS-39	Total/NA	Solid	8015NM Prep	
880-40965-40	FS-40	Total/NA	Solid	8015NM Prep	
MB 880-75832/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75832/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40965-21 MS	FS-21	Total/NA	Solid	8015NM Prep	
880-40965-21 MSD	FS-21	Total/NA	Solid	8015NM Prep	

Prep Batch: 75833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-41	FS-41	Total/NA	Solid	8015NM Prep	
880-40965-42	FS-42	Total/NA	Solid	8015NM Prep	
880-40965-43	FS-43	Total/NA	Solid	8015NM Prep	
880-40965-44	FS-44	Total/NA	Solid	8015NM Prep	
880-40965-45	FS-45	Total/NA	Solid	8015NM Prep	
880-40965-46	FS-46	Total/NA	Solid	8015NM Prep	
880-40965-47	FS-47	Total/NA	Solid	8015NM Prep	
880-40965-48	FS-48	Total/NA	Solid	8015NM Prep	
880-40965-49	FS-49	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 75833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-50	FS-50	Total/NA	Solid	8015NM Prep	
880-40965-51	FS-51	Total/NA	Solid	8015NM Prep	
880-40965-52	FS-52	Total/NA	Solid	8015NM Prep	
880-40965-53	FS-53	Total/NA	Solid	8015NM Prep	
880-40965-54	FS-54	Total/NA	Solid	8015NM Prep	
880-40965-55	FS-55	Total/NA	Solid	8015NM Prep	
880-40965-56	FS-56	Total/NA	Solid	8015NM Prep	
880-40965-57	FS-57	Total/NA	Solid	8015NM Prep	
880-40965-58	FS-58	Total/NA	Solid	8015NM Prep	
880-40965-59	FS-59	Total/NA	Solid	8015NM Prep	
880-40965-60	FS-60	Total/NA	Solid	8015NM Prep	
MB 880-75833/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75833/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40965-41 MS	FS-41	Total/NA	Solid	8015NM Prep	
880-40965-41 MSD	FS-41	Total/NA	Solid	8015NM Prep	

Prep Batch: 75834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-61	FS-61	Total/NA	Solid	8015NM Prep	
880-40965-62	FS-62	Total/NA	Solid	8015NM Prep	
880-40965-63	FS-63	Total/NA	Solid	8015NM Prep	
880-40965-64	FS-64	Total/NA	Solid	8015NM Prep	
880-40965-65	FS-65	Total/NA	Solid	8015NM Prep	
880-40965-66	FS-66	Total/NA	Solid	8015NM Prep	
880-40965-67	FS-67	Total/NA	Solid	8015NM Prep	
880-40965-68	FS-68	Total/NA	Solid	8015NM Prep	
880-40965-69	FS-69	Total/NA	Solid	8015NM Prep	
880-40965-70	FS-70	Total/NA	Solid	8015NM Prep	
880-40965-71	FS-71	Total/NA	Solid	8015NM Prep	
880-40965-72	FS-72	Total/NA	Solid	8015NM Prep	
880-40965-73	FS-73	Total/NA	Solid	8015NM Prep	
880-40965-74	FS-74	Total/NA	Solid	8015NM Prep	
880-40965-75	FS-75	Total/NA	Solid	8015NM Prep	
880-40965-76	FS-76	Total/NA	Solid	8015NM Prep	
880-40965-77	FS-77	Total/NA	Solid	8015NM Prep	
880-40965-78	FS-78	Total/NA	Solid	8015NM Prep	
880-40965-79	FS-79	Total/NA	Solid	8015NM Prep	
880-40965-80	FS-80	Total/NA	Solid	8015NM Prep	
MB 880-75834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40965-61 MS	FS-61	Total/NA	Solid	8015NM Prep	
880-40965-61 MSD	FS-61	Total/NA	Solid	8015NM Prep	

Prep Batch: 75874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-81	FS-81	Total/NA	Solid	8015NM Prep	
MB 880-75874/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75874/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75874/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 75940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Total/NA	Solid	8015B NM	75828
880-40965-2	FS-2	Total/NA	Solid	8015B NM	75828
880-40965-3	FS-3	Total/NA	Solid	8015B NM	75828
880-40965-4	FS-4	Total/NA	Solid	8015B NM	75828
880-40965-5	FS-5	Total/NA	Solid	8015B NM	75828
880-40965-6	FS-6	Total/NA	Solid	8015B NM	75828
880-40965-7	FS-7	Total/NA	Solid	8015B NM	75828
880-40965-8	FS-8	Total/NA	Solid	8015B NM	75828
880-40965-9	FS-9	Total/NA	Solid	8015B NM	75828
880-40965-10	FS-10	Total/NA	Solid	8015B NM	75828
880-40965-11	FS-11	Total/NA	Solid	8015B NM	75828
880-40965-12	FS-12	Total/NA	Solid	8015B NM	75828
880-40965-13	FS-13	Total/NA	Solid	8015B NM	75828
880-40965-14	FS-14	Total/NA	Solid	8015B NM	75828
880-40965-15	FS-15	Total/NA	Solid	8015B NM	75828
880-40965-16	FS-16	Total/NA	Solid	8015B NM	75828
880-40965-17	FS-17	Total/NA	Solid	8015B NM	75828
880-40965-18	FS-18	Total/NA	Solid	8015B NM	75828
880-40965-19	FS-19	Total/NA	Solid	8015B NM	75828
880-40965-20	FS-20	Total/NA	Solid	8015B NM	75828
MB 880-75828/1-A	Method Blank	Total/NA	Solid	8015B NM	75828
LCS 880-75828/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75828
LCSD 880-75828/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75828
880-40965-1 MS	FS-1	Total/NA	Solid	8015B NM	75828
880-40965-1 MSD	FS-1	Total/NA	Solid	8015B NM	75828

Analysis Batch: 75942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-21	FS-21	Total/NA	Solid	8015B NM	75832
880-40965-22	FS-22	Total/NA	Solid	8015B NM	75832
880-40965-23	FS-23	Total/NA	Solid	8015B NM	75832
880-40965-24	FS-24	Total/NA	Solid	8015B NM	75832
880-40965-25	FS-25	Total/NA	Solid	8015B NM	75832
880-40965-26	FS-26	Total/NA	Solid	8015B NM	75832
880-40965-27	FS-27	Total/NA	Solid	8015B NM	75832
880-40965-28	FS-28	Total/NA	Solid	8015B NM	75832
880-40965-29	FS-29	Total/NA	Solid	8015B NM	75832
880-40965-30	FS-30	Total/NA	Solid	8015B NM	75832
880-40965-31	FS-31	Total/NA	Solid	8015B NM	75832
880-40965-32	FS-32	Total/NA	Solid	8015B NM	75832
880-40965-33	FS-33	Total/NA	Solid	8015B NM	75832
880-40965-34	FS-34	Total/NA	Solid	8015B NM	75832
880-40965-35	FS-35	Total/NA	Solid	8015B NM	75832
880-40965-36	FS-36	Total/NA	Solid	8015B NM	75832
880-40965-37	FS-37	Total/NA	Solid	8015B NM	75832
880-40965-38	FS-38	Total/NA	Solid	8015B NM	75832
880-40965-39	FS-39	Total/NA	Solid	8015B NM	75832
880-40965-40	FS-40	Total/NA	Solid	8015B NM	75832
MB 880-75832/1-A	Method Blank	Total/NA	Solid	8015B NM	75832
LCS 880-75832/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75832
LCSD 880-75832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75832

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QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 75942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-21 MS	FS-21	Total/NA	Solid	8015B NM	75832
880-40965-21 MSD	FS-21	Total/NA	Solid	8015B NM	75832

Analysis Batch: 75945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-41	FS-41	Total/NA	Solid	8015B NM	75833
880-40965-42	FS-42	Total/NA	Solid	8015B NM	75833
880-40965-43	FS-43	Total/NA	Solid	8015B NM	75833
880-40965-44	FS-44	Total/NA	Solid	8015B NM	75833
880-40965-45	FS-45	Total/NA	Solid	8015B NM	75833
880-40965-46	FS-46	Total/NA	Solid	8015B NM	75833
880-40965-47	FS-47	Total/NA	Solid	8015B NM	75833
880-40965-48	FS-48	Total/NA	Solid	8015B NM	75833
880-40965-49	FS-49	Total/NA	Solid	8015B NM	75833
880-40965-50	FS-50	Total/NA	Solid	8015B NM	75833
880-40965-51	FS-51	Total/NA	Solid	8015B NM	75833
880-40965-52	FS-52	Total/NA	Solid	8015B NM	75833
880-40965-53	FS-53	Total/NA	Solid	8015B NM	75833
880-40965-54	FS-54	Total/NA	Solid	8015B NM	75833
880-40965-55	FS-55	Total/NA	Solid	8015B NM	75833
880-40965-56	FS-56	Total/NA	Solid	8015B NM	75833
880-40965-57	FS-57	Total/NA	Solid	8015B NM	75833
880-40965-58	FS-58	Total/NA	Solid	8015B NM	75833
880-40965-59	FS-59	Total/NA	Solid	8015B NM	75833
880-40965-60	FS-60	Total/NA	Solid	8015B NM	75833
MB 880-75833/1-A	Method Blank	Total/NA	Solid	8015B NM	75833
LCS 880-75833/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75833
LCSD 880-75833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75833
880-40965-41 MS	FS-41	Total/NA	Solid	8015B NM	75833
880-40965-41 MSD	FS-41	Total/NA	Solid	8015B NM	75833

Analysis Batch: 76065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-61	FS-61	Total/NA	Solid	8015B NM	75834
880-40965-62	FS-62	Total/NA	Solid	8015B NM	75834
880-40965-63	FS-63	Total/NA	Solid	8015B NM	75834
880-40965-64	FS-64	Total/NA	Solid	8015B NM	75834
880-40965-65	FS-65	Total/NA	Solid	8015B NM	75834
880-40965-66	FS-66	Total/NA	Solid	8015B NM	75834
880-40965-67	FS-67	Total/NA	Solid	8015B NM	75834
880-40965-68	FS-68	Total/NA	Solid	8015B NM	75834
880-40965-69	FS-69	Total/NA	Solid	8015B NM	75834
880-40965-70	FS-70	Total/NA	Solid	8015B NM	75834
880-40965-71	FS-71	Total/NA	Solid	8015B NM	75834
880-40965-72	FS-72	Total/NA	Solid	8015B NM	75834
880-40965-73	FS-73	Total/NA	Solid	8015B NM	75834
880-40965-74	FS-74	Total/NA	Solid	8015B NM	75834
880-40965-75	FS-75	Total/NA	Solid	8015B NM	75834
880-40965-76	FS-76	Total/NA	Solid	8015B NM	75834
880-40965-77	FS-77	Total/NA	Solid	8015B NM	75834
880-40965-78	FS-78	Total/NA	Solid	8015B NM	75834

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 76065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-79	FS-79	Total/NA	Solid	8015B NM	75834
880-40965-80	FS-80	Total/NA	Solid	8015B NM	75834
MB 880-75834/1-A	Method Blank	Total/NA	Solid	8015B NM	75834
LCS 880-75834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75834
LCSD 880-75834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75834
880-40965-61 MS	FS-61	Total/NA	Solid	8015B NM	75834
880-40965-61 MSD	FS-61	Total/NA	Solid	8015B NM	75834

Analysis Batch: 76067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-81	FS-81	Total/NA	Solid	8015B NM	75874
MB 880-75874/1-A	Method Blank	Total/NA	Solid	8015B NM	75874
LCS 880-75874/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75874
LCSD 880-75874/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75874

Analysis Batch: 76102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Total/NA	Solid	8015 NM	
880-40965-2	FS-2	Total/NA	Solid	8015 NM	
880-40965-3	FS-3	Total/NA	Solid	8015 NM	
880-40965-4	FS-4	Total/NA	Solid	8015 NM	
880-40965-5	FS-5	Total/NA	Solid	8015 NM	
880-40965-6	FS-6	Total/NA	Solid	8015 NM	
880-40965-7	FS-7	Total/NA	Solid	8015 NM	
880-40965-8	FS-8	Total/NA	Solid	8015 NM	
880-40965-9	FS-9	Total/NA	Solid	8015 NM	
880-40965-10	FS-10	Total/NA	Solid	8015 NM	
880-40965-11	FS-11	Total/NA	Solid	8015 NM	
880-40965-12	FS-12	Total/NA	Solid	8015 NM	
880-40965-13	FS-13	Total/NA	Solid	8015 NM	
880-40965-14	FS-14	Total/NA	Solid	8015 NM	
880-40965-15	FS-15	Total/NA	Solid	8015 NM	
880-40965-16	FS-16	Total/NA	Solid	8015 NM	
880-40965-17	FS-17	Total/NA	Solid	8015 NM	
880-40965-18	FS-18	Total/NA	Solid	8015 NM	
880-40965-19	FS-19	Total/NA	Solid	8015 NM	
880-40965-20	FS-20	Total/NA	Solid	8015 NM	
880-40965-21	FS-21	Total/NA	Solid	8015 NM	
880-40965-22	FS-22	Total/NA	Solid	8015 NM	
880-40965-23	FS-23	Total/NA	Solid	8015 NM	
880-40965-24	FS-24	Total/NA	Solid	8015 NM	
880-40965-25	FS-25	Total/NA	Solid	8015 NM	
880-40965-26	FS-26	Total/NA	Solid	8015 NM	
880-40965-27	FS-27	Total/NA	Solid	8015 NM	
880-40965-28	FS-28	Total/NA	Solid	8015 NM	
880-40965-29	FS-29	Total/NA	Solid	8015 NM	
880-40965-30	FS-30	Total/NA	Solid	8015 NM	
880-40965-31	FS-31	Total/NA	Solid	8015 NM	
880-40965-32	FS-32	Total/NA	Solid	8015 NM	
880-40965-33	FS-33	Total/NA	Solid	8015 NM	
880-40965-34	FS-34	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 76102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-35	FS-35	Total/NA	Solid	8015 NM	
880-40965-36	FS-36	Total/NA	Solid	8015 NM	
880-40965-37	FS-37	Total/NA	Solid	8015 NM	
880-40965-38	FS-38	Total/NA	Solid	8015 NM	
880-40965-39	FS-39	Total/NA	Solid	8015 NM	
880-40965-40	FS-40	Total/NA	Solid	8015 NM	
880-40965-41	FS-41	Total/NA	Solid	8015 NM	
880-40965-42	FS-42	Total/NA	Solid	8015 NM	
880-40965-43	FS-43	Total/NA	Solid	8015 NM	
880-40965-44	FS-44	Total/NA	Solid	8015 NM	
880-40965-45	FS-45	Total/NA	Solid	8015 NM	
880-40965-46	FS-46	Total/NA	Solid	8015 NM	
880-40965-47	FS-47	Total/NA	Solid	8015 NM	
880-40965-48	FS-48	Total/NA	Solid	8015 NM	
880-40965-49	FS-49	Total/NA	Solid	8015 NM	
880-40965-50	FS-50	Total/NA	Solid	8015 NM	
880-40965-51	FS-51	Total/NA	Solid	8015 NM	
880-40965-52	FS-52	Total/NA	Solid	8015 NM	
880-40965-53	FS-53	Total/NA	Solid	8015 NM	
880-40965-54	FS-54	Total/NA	Solid	8015 NM	
880-40965-55	FS-55	Total/NA	Solid	8015 NM	
880-40965-56	FS-56	Total/NA	Solid	8015 NM	
880-40965-57	FS-57	Total/NA	Solid	8015 NM	
880-40965-58	FS-58	Total/NA	Solid	8015 NM	
880-40965-59	FS-59	Total/NA	Solid	8015 NM	
880-40965-60	FS-60	Total/NA	Solid	8015 NM	
880-40965-61	FS-61	Total/NA	Solid	8015 NM	
880-40965-62	FS-62	Total/NA	Solid	8015 NM	
880-40965-63	FS-63	Total/NA	Solid	8015 NM	
880-40965-64	FS-64	Total/NA	Solid	8015 NM	
880-40965-65	FS-65	Total/NA	Solid	8015 NM	
880-40965-66	FS-66	Total/NA	Solid	8015 NM	
880-40965-67	FS-67	Total/NA	Solid	8015 NM	
880-40965-68	FS-68	Total/NA	Solid	8015 NM	
880-40965-69	FS-69	Total/NA	Solid	8015 NM	
880-40965-70	FS-70	Total/NA	Solid	8015 NM	
880-40965-71	FS-71	Total/NA	Solid	8015 NM	
880-40965-72	FS-72	Total/NA	Solid	8015 NM	
880-40965-73	FS-73	Total/NA	Solid	8015 NM	
880-40965-74	FS-74	Total/NA	Solid	8015 NM	
880-40965-75	FS-75	Total/NA	Solid	8015 NM	
880-40965-76	FS-76	Total/NA	Solid	8015 NM	
880-40965-77	FS-77	Total/NA	Solid	8015 NM	
880-40965-78	FS-78	Total/NA	Solid	8015 NM	
880-40965-79	FS-79	Total/NA	Solid	8015 NM	
880-40965-80	FS-80	Total/NA	Solid	8015 NM	
880-40965-81	FS-81	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

HPLC/IC

Leach Batch: 75953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Soluble	Solid	DI Leach	
880-40965-2	FS-2	Soluble	Solid	DI Leach	
880-40965-3	FS-3	Soluble	Solid	DI Leach	
880-40965-4	FS-4	Soluble	Solid	DI Leach	
880-40965-5	FS-5	Soluble	Solid	DI Leach	
880-40965-6	FS-6	Soluble	Solid	DI Leach	
880-40965-7	FS-7	Soluble	Solid	DI Leach	
880-40965-8	FS-8	Soluble	Solid	DI Leach	
880-40965-9	FS-9	Soluble	Solid	DI Leach	
880-40965-10	FS-10	Soluble	Solid	DI Leach	
880-40965-11	FS-11	Soluble	Solid	DI Leach	
880-40965-12	FS-12	Soluble	Solid	DI Leach	
880-40965-13	FS-13	Soluble	Solid	DI Leach	
880-40965-14	FS-14	Soluble	Solid	DI Leach	
880-40965-15	FS-15	Soluble	Solid	DI Leach	
880-40965-16	FS-16	Soluble	Solid	DI Leach	
880-40965-17	FS-17	Soluble	Solid	DI Leach	
880-40965-18	FS-18	Soluble	Solid	DI Leach	
880-40965-19	FS-19	Soluble	Solid	DI Leach	
880-40965-20	FS-20	Soluble	Solid	DI Leach	
MB 880-75953/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75953/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75953/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40965-1 MS	FS-1	Soluble	Solid	DI Leach	
880-40965-1 MSD	FS-1	Soluble	Solid	DI Leach	
880-40965-11 MS	FS-11	Soluble	Solid	DI Leach	
880-40965-11 MSD	FS-11	Soluble	Solid	DI Leach	

Leach Batch: 75958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-21	FS-21	Soluble	Solid	DI Leach	
880-40965-22	FS-22	Soluble	Solid	DI Leach	
880-40965-23	FS-23	Soluble	Solid	DI Leach	
880-40965-24	FS-24	Soluble	Solid	DI Leach	
880-40965-25	FS-25	Soluble	Solid	DI Leach	
880-40965-26	FS-26	Soluble	Solid	DI Leach	
880-40965-27	FS-27	Soluble	Solid	DI Leach	
880-40965-28	FS-28	Soluble	Solid	DI Leach	
880-40965-29	FS-29	Soluble	Solid	DI Leach	
880-40965-30	FS-30	Soluble	Solid	DI Leach	
880-40965-31	FS-31	Soluble	Solid	DI Leach	
880-40965-32	FS-32	Soluble	Solid	DI Leach	
880-40965-33	FS-33	Soluble	Solid	DI Leach	
880-40965-34	FS-34	Soluble	Solid	DI Leach	
880-40965-35	FS-35	Soluble	Solid	DI Leach	
880-40965-36	FS-36	Soluble	Solid	DI Leach	
880-40965-37	FS-37	Soluble	Solid	DI Leach	
880-40965-38	FS-38	Soluble	Solid	DI Leach	
880-40965-39	FS-39	Soluble	Solid	DI Leach	
880-40965-40	FS-40	Soluble	Solid	DI Leach	
MB 880-75958/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 75958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-75958/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75958/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40965-21 MS	FS-21	Soluble	Solid	DI Leach	
880-40965-21 MSD	FS-21	Soluble	Solid	DI Leach	
880-40965-31 MS	FS-31	Soluble	Solid	DI Leach	
880-40965-31 MSD	FS-31	Soluble	Solid	DI Leach	

Leach Batch: 75980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-41	FS-41	Soluble	Solid	DI Leach	
880-40965-42	FS-42	Soluble	Solid	DI Leach	
880-40965-43	FS-43	Soluble	Solid	DI Leach	
880-40965-44	FS-44	Soluble	Solid	DI Leach	
880-40965-45	FS-45	Soluble	Solid	DI Leach	
880-40965-46	FS-46	Soluble	Solid	DI Leach	
880-40965-47	FS-47	Soluble	Solid	DI Leach	
880-40965-48	FS-48	Soluble	Solid	DI Leach	
880-40965-49	FS-49	Soluble	Solid	DI Leach	
880-40965-50	FS-50	Soluble	Solid	DI Leach	
880-40965-51	FS-51	Soluble	Solid	DI Leach	
880-40965-52	FS-52	Soluble	Solid	DI Leach	
880-40965-53	FS-53	Soluble	Solid	DI Leach	
880-40965-54	FS-54	Soluble	Solid	DI Leach	
880-40965-55	FS-55	Soluble	Solid	DI Leach	
880-40965-56	FS-56	Soluble	Solid	DI Leach	
880-40965-57	FS-57	Soluble	Solid	DI Leach	
880-40965-58	FS-58	Soluble	Solid	DI Leach	
880-40965-59	FS-59	Soluble	Solid	DI Leach	
880-40965-60	FS-60	Soluble	Solid	DI Leach	
MB 880-75980/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75980/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75980/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40965-41 MS	FS-41	Soluble	Solid	DI Leach	
880-40965-41 MSD	FS-41	Soluble	Solid	DI Leach	
880-40965-51 MS	FS-51	Soluble	Solid	DI Leach	
880-40965-51 MSD	FS-51	Soluble	Solid	DI Leach	

Leach Batch: 75994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-61	FS-61	Soluble	Solid	DI Leach	
880-40965-62	FS-62	Soluble	Solid	DI Leach	
880-40965-63	FS-63	Soluble	Solid	DI Leach	
880-40965-64	FS-64	Soluble	Solid	DI Leach	
880-40965-65	FS-65	Soluble	Solid	DI Leach	
880-40965-66	FS-66	Soluble	Solid	DI Leach	
880-40965-67	FS-67	Soluble	Solid	DI Leach	
880-40965-68	FS-68	Soluble	Solid	DI Leach	
880-40965-69	FS-69	Soluble	Solid	DI Leach	
880-40965-70	FS-70	Soluble	Solid	DI Leach	
880-40965-71	FS-71	Soluble	Solid	DI Leach	
880-40965-72	FS-72	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 75994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-73	FS-73	Soluble	Solid	DI Leach	
880-40965-74	FS-74	Soluble	Solid	DI Leach	
880-40965-75	FS-75	Soluble	Solid	DI Leach	
880-40965-76	FS-76	Soluble	Solid	DI Leach	
880-40965-77	FS-77	Soluble	Solid	DI Leach	
880-40965-78	FS-78	Soluble	Solid	DI Leach	
880-40965-79	FS-79	Soluble	Solid	DI Leach	
880-40965-80	FS-80	Soluble	Solid	DI Leach	
MB 880-75994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40965-61 MS	FS-61	Soluble	Solid	DI Leach	
880-40965-61 MSD	FS-61	Soluble	Solid	DI Leach	
880-40965-71 MS	FS-71	Soluble	Solid	DI Leach	
880-40965-71 MSD	FS-71	Soluble	Solid	DI Leach	

Leach Batch: 76018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-81	FS-81	Soluble	Solid	DI Leach	
MB 880-76018/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-76018/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-76018/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40965-81 MS	FS-81	Soluble	Solid	DI Leach	
880-40965-81 MSD	FS-81	Soluble	Solid	DI Leach	

Analysis Batch: 76030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1	FS-1	Soluble	Solid	300.0	75953
880-40965-2	FS-2	Soluble	Solid	300.0	75953
880-40965-3	FS-3	Soluble	Solid	300.0	75953
880-40965-4	FS-4	Soluble	Solid	300.0	75953
880-40965-5	FS-5	Soluble	Solid	300.0	75953
880-40965-6	FS-6	Soluble	Solid	300.0	75953
880-40965-7	FS-7	Soluble	Solid	300.0	75953
880-40965-8	FS-8	Soluble	Solid	300.0	75953
880-40965-9	FS-9	Soluble	Solid	300.0	75953
880-40965-10	FS-10	Soluble	Solid	300.0	75953
880-40965-11	FS-11	Soluble	Solid	300.0	75953
880-40965-12	FS-12	Soluble	Solid	300.0	75953
880-40965-13	FS-13	Soluble	Solid	300.0	75953
880-40965-14	FS-14	Soluble	Solid	300.0	75953
880-40965-15	FS-15	Soluble	Solid	300.0	75953
880-40965-16	FS-16	Soluble	Solid	300.0	75953
880-40965-17	FS-17	Soluble	Solid	300.0	75953
880-40965-18	FS-18	Soluble	Solid	300.0	75953
880-40965-19	FS-19	Soluble	Solid	300.0	75953
880-40965-20	FS-20	Soluble	Solid	300.0	75953
MB 880-75953/1-A	Method Blank	Soluble	Solid	300.0	75953
LCS 880-75953/2-A	Lab Control Sample	Soluble	Solid	300.0	75953
LCSD 880-75953/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75953
880-40965-1 MS	FS-1	Soluble	Solid	300.0	75953

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 76030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-1 MSD	FS-1	Soluble	Solid	300.0	75953
880-40965-11 MS	FS-11	Soluble	Solid	300.0	75953
880-40965-11 MSD	FS-11	Soluble	Solid	300.0	75953

Analysis Batch: 76032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-21	FS-21	Soluble	Solid	300.0	75958
880-40965-22	FS-22	Soluble	Solid	300.0	75958
880-40965-23	FS-23	Soluble	Solid	300.0	75958
880-40965-24	FS-24	Soluble	Solid	300.0	75958
880-40965-25	FS-25	Soluble	Solid	300.0	75958
880-40965-26	FS-26	Soluble	Solid	300.0	75958
880-40965-27	FS-27	Soluble	Solid	300.0	75958
880-40965-28	FS-28	Soluble	Solid	300.0	75958
880-40965-29	FS-29	Soluble	Solid	300.0	75958
880-40965-30	FS-30	Soluble	Solid	300.0	75958
880-40965-31	FS-31	Soluble	Solid	300.0	75958
880-40965-32	FS-32	Soluble	Solid	300.0	75958
880-40965-33	FS-33	Soluble	Solid	300.0	75958
880-40965-34	FS-34	Soluble	Solid	300.0	75958
880-40965-35	FS-35	Soluble	Solid	300.0	75958
880-40965-36	FS-36	Soluble	Solid	300.0	75958
880-40965-37	FS-37	Soluble	Solid	300.0	75958
880-40965-38	FS-38	Soluble	Solid	300.0	75958
880-40965-39	FS-39	Soluble	Solid	300.0	75958
880-40965-40	FS-40	Soluble	Solid	300.0	75958
MB 880-75958/1-A	Method Blank	Soluble	Solid	300.0	75958
LCS 880-75958/2-A	Lab Control Sample	Soluble	Solid	300.0	75958
LCSD 880-75958/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75958
880-40965-21 MS	FS-21	Soluble	Solid	300.0	75958
880-40965-21 MSD	FS-21	Soluble	Solid	300.0	75958
880-40965-31 MS	FS-31	Soluble	Solid	300.0	75958
880-40965-31 MSD	FS-31	Soluble	Solid	300.0	75958

Analysis Batch: 76035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-41	FS-41	Soluble	Solid	300.0	75980
880-40965-42	FS-42	Soluble	Solid	300.0	75980
880-40965-43	FS-43	Soluble	Solid	300.0	75980
880-40965-44	FS-44	Soluble	Solid	300.0	75980
880-40965-45	FS-45	Soluble	Solid	300.0	75980
880-40965-46	FS-46	Soluble	Solid	300.0	75980
880-40965-47	FS-47	Soluble	Solid	300.0	75980
880-40965-48	FS-48	Soluble	Solid	300.0	75980
880-40965-49	FS-49	Soluble	Solid	300.0	75980
880-40965-50	FS-50	Soluble	Solid	300.0	75980
880-40965-51	FS-51	Soluble	Solid	300.0	75980
880-40965-52	FS-52	Soluble	Solid	300.0	75980
880-40965-53	FS-53	Soluble	Solid	300.0	75980
880-40965-54	FS-54	Soluble	Solid	300.0	75980
880-40965-55	FS-55	Soluble	Solid	300.0	75980

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 76035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-56	FS-56	Soluble	Solid	300.0	75980
880-40965-57	FS-57	Soluble	Solid	300.0	75980
880-40965-58	FS-58	Soluble	Solid	300.0	75980
880-40965-59	FS-59	Soluble	Solid	300.0	75980
880-40965-60	FS-60	Soluble	Solid	300.0	75980
MB 880-75980/1-A	Method Blank	Soluble	Solid	300.0	75980
LCS 880-75980/2-A	Lab Control Sample	Soluble	Solid	300.0	75980
LCSD 880-75980/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75980
880-40965-41 MS	FS-41	Soluble	Solid	300.0	75980
880-40965-41 MSD	FS-41	Soluble	Solid	300.0	75980
880-40965-51 MS	FS-51	Soluble	Solid	300.0	75980
880-40965-51 MSD	FS-51	Soluble	Solid	300.0	75980

Analysis Batch: 76038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-61	FS-61	Soluble	Solid	300.0	75994
880-40965-62	FS-62	Soluble	Solid	300.0	75994
880-40965-63	FS-63	Soluble	Solid	300.0	75994
880-40965-64	FS-64	Soluble	Solid	300.0	75994
880-40965-65	FS-65	Soluble	Solid	300.0	75994
880-40965-66	FS-66	Soluble	Solid	300.0	75994
880-40965-67	FS-67	Soluble	Solid	300.0	75994
880-40965-68	FS-68	Soluble	Solid	300.0	75994
880-40965-69	FS-69	Soluble	Solid	300.0	75994
880-40965-70	FS-70	Soluble	Solid	300.0	75994
880-40965-71	FS-71	Soluble	Solid	300.0	75994
880-40965-72	FS-72	Soluble	Solid	300.0	75994
880-40965-73	FS-73	Soluble	Solid	300.0	75994
880-40965-74	FS-74	Soluble	Solid	300.0	75994
880-40965-75	FS-75	Soluble	Solid	300.0	75994
880-40965-76	FS-76	Soluble	Solid	300.0	75994
880-40965-77	FS-77	Soluble	Solid	300.0	75994
880-40965-78	FS-78	Soluble	Solid	300.0	75994
880-40965-79	FS-79	Soluble	Solid	300.0	75994
880-40965-80	FS-80	Soluble	Solid	300.0	75994
MB 880-75994/1-A	Method Blank	Soluble	Solid	300.0	75994
LCS 880-75994/2-A	Lab Control Sample	Soluble	Solid	300.0	75994
LCSD 880-75994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75994
880-40965-61 MS	FS-61	Soluble	Solid	300.0	75994
880-40965-61 MSD	FS-61	Soluble	Solid	300.0	75994
880-40965-71 MS	FS-71	Soluble	Solid	300.0	75994
880-40965-71 MSD	FS-71	Soluble	Solid	300.0	75994

Analysis Batch: 76086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40965-81	FS-81	Soluble	Solid	300.0	76018
MB 880-76018/1-A	Method Blank	Soluble	Solid	300.0	76018
LCS 880-76018/2-A	Lab Control Sample	Soluble	Solid	300.0	76018
LCSD 880-76018/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	76018
880-40965-81 MS	FS-81	Soluble	Solid	300.0	76018
880-40965-81 MSD	FS-81	Soluble	Solid	300.0	76018

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-1
Date Collected: 03/15/24 09:00
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 11:46
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 11:46
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 09:57
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 09:57
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 03:01

Client Sample ID: FS-2
Date Collected: 03/15/24 09:05
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 12:07
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 12:07
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:01
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 11:01
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 03:17

Client Sample ID: FS-3
Date Collected: 03/15/24 09:10
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 12:27
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 12:27
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:22
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 11:22
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 03:23

Client Sample ID: FS-4
Date Collected: 03/15/24 09:15
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 12:48
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 12:48

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-4
Date Collected: 03/15/24 09:15
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:43
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 11:43
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 03:28

Client Sample ID: FS-5
Date Collected: 03/15/24 09:20
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 13:08
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 13:08
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:04
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 12:04
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 03:34

Client Sample ID: FS-6
Date Collected: 03/15/24 09:25
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 13:28
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 13:28
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:25
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 12:25
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 03:51

Client Sample ID: FS-7
Date Collected: 03/15/24 09:30
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 13:49
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 13:49
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:46
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 12:46

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-7

Lab Sample ID: 880-40965-7

Date Collected: 03/15/24 09:30

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 03:56

Client Sample ID: FS-8

Lab Sample ID: 880-40965-8

Date Collected: 03/15/24 09:35

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 14:09
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 14:09
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:07
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 13:07
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 04:02

Client Sample ID: FS-9

Lab Sample ID: 880-40965-9

Date Collected: 03/15/24 09:40

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 14:30
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 14:30
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:29
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 13:29
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 04:07

Client Sample ID: FS-10

Lab Sample ID: 880-40965-10

Date Collected: 03/15/24 09:45

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 14:50
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 14:50
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:50
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 13:50
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 04:13

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-11
Date Collected: 03/15/24 09:50
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 16:18
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 16:18
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 14:33
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 14:33
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 04:18

Client Sample ID: FS-12
Date Collected: 03/15/24 09:55
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 16:38
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 16:38
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 14:54
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 14:54
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 04:35

Client Sample ID: FS-13
Date Collected: 03/15/24 10:00
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 16:59
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 16:59
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:45
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 17:45
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 04:40

Client Sample ID: FS-14
Date Collected: 03/15/24 10:05
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 17:19
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 17:19

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-14

Lab Sample ID: 880-40965-14

Date Collected: 03/15/24 10:05

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:15
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 15:15
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 04:57

Client Sample ID: FS-15

Lab Sample ID: 880-40965-15

Date Collected: 03/15/24 10:10

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 17:40
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 17:40
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:36
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 15:36
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 05:02

Client Sample ID: FS-16

Lab Sample ID: 880-40965-16

Date Collected: 03/15/24 10:15

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 18:00
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 18:00
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:58
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 15:58
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 05:08

Client Sample ID: FS-17

Lab Sample ID: 880-40965-17

Date Collected: 03/15/24 10:20

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 18:21
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 18:21
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 16:19
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 16:19

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-17
Date Collected: 03/15/24 10:20
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 05:14

Client Sample ID: FS-18
Date Collected: 03/15/24 10:25
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 18:41
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 18:41
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 16:40
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 16:40
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 05:19

Client Sample ID: FS-19
Date Collected: 03/15/24 10:30
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 19:01
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 19:01
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:02
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 17:02
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 05:25

Client Sample ID: FS-20
Date Collected: 03/15/24 10:35
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75824	MNR	EET MID	03/18/24 10:43
Total/NA	Analysis	8021B		1	76151	MNR	EET MID	03/21/24 19:22
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/21/24 19:22
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:23
Total/NA	Prep	8015NM Prep			75828	TKC	EET MID	03/18/24 11:00
Total/NA	Analysis	8015B NM		1	75940	SM	EET MID	03/19/24 17:23
Soluble	Leach	DI Leach			75953	SA	EET MID	03/19/24 08:54
Soluble	Analysis	300.0		1	76030	SI	EET MID	03/20/24 05:30

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-21
Date Collected: 03/15/24 09:08
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 05:15
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 05:15
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 09:57
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 09:57
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 04:03

Client Sample ID: FS-22
Date Collected: 03/15/24 09:09
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 05:41
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 05:41
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:01
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 11:01
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 04:26

Client Sample ID: FS-23
Date Collected: 03/15/24 09:10
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 06:08
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 06:08
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:22
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 11:22
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 04:33

Client Sample ID: FS-24
Date Collected: 03/15/24 09:11
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 06:34
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 06:34

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-24

Date Collected: 03/15/24 09:11

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:43
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 11:43
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 04:40

Client Sample ID: FS-25

Date Collected: 03/15/24 09:12

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 07:02
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 07:02
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:04
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 12:04
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 04:48

Client Sample ID: FS-26

Date Collected: 03/15/24 09:13

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 07:30
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 07:30
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:25
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 12:25
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 05:10

Client Sample ID: FS-27

Date Collected: 03/15/24 09:14

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 07:57
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 07:57
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:46
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 12:46

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-27
Date Collected: 03/15/24 09:14
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 05:18

Client Sample ID: FS-28
Date Collected: 03/15/24 09:15
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 08:24
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 08:24
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:07
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 13:07
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 05:25

Client Sample ID: FS-29
Date Collected: 03/15/24 09:16
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 09:01
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 09:01
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:29
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 13:29
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 05:32

Client Sample ID: FS-30
Date Collected: 03/15/24 09:17
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 09:27
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 09:27
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:50
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 13:50
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 05:40

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-31
Date Collected: 03/15/24 09:18
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 15:46
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 15:46
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 14:33
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 14:33
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 05:47

Client Sample ID: FS-32
Date Collected: 03/15/24 09:19
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 16:12
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 16:12
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 14:54
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 14:54
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 06:09

Client Sample ID: FS-33
Date Collected: 03/15/24 09:20
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 16:38
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 16:38
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:15
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 15:15
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 06:17

Client Sample ID: FS-34
Date Collected: 03/15/24 09:21
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 17:04
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 17:04

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-34

Lab Sample ID: 880-40965-34

Date Collected: 03/15/24 09:21

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:36
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 15:36
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 06:39

Client Sample ID: FS-35

Lab Sample ID: 880-40965-35

Date Collected: 03/15/24 09:22

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 17:30
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 17:30
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:58
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 15:58
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 06:46

Client Sample ID: FS-36

Lab Sample ID: 880-40965-36

Date Collected: 03/15/24 09:21

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 17:57
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 17:57
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 16:19
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 16:19
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 06:54

Client Sample ID: FS-37

Lab Sample ID: 880-40965-37

Date Collected: 03/15/24 09:24

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 18:22
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 18:22
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 16:40
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 16:40

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-37
Date Collected: 03/15/24 09:24
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 07:01

Client Sample ID: FS-38
Date Collected: 03/15/24 09:25
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 18:48
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 18:48
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:02
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 17:02
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 07:09

Client Sample ID: FS-39
Date Collected: 03/15/24 09:26
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 19:13
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 19:13
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:23
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 17:23
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 07:16

Client Sample ID: FS-40
Date Collected: 03/15/24 09:27
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75825	MNR	EET MID	03/18/24 10:50
Total/NA	Analysis	8021B		1	76193	MNR	EET MID	03/22/24 19:39
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 19:39
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:45
Total/NA	Prep	8015NM Prep			75832	TKC	EET MID	03/18/24 11:04
Total/NA	Analysis	8015B NM		1	75942	SM	EET MID	03/19/24 17:45
Soluble	Leach	DI Leach			75958	SA	EET MID	03/19/24 09:27
Soluble	Analysis	300.0		1	76032	CH	EET MID	03/20/24 07:23

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-41

Date Collected: 03/15/24 09:28

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/22/24 22:44
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 22:44
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 09:52
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 09:52
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 06:14

Client Sample ID: FS-42

Date Collected: 03/15/24 09:29

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-42

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/22/24 23:04
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 23:04
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 10:56
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 10:56
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 06:31

Client Sample ID: FS-43

Date Collected: 03/15/24 09:30

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/22/24 23:25
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 23:25
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:17
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 11:17
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 06:37

Client Sample ID: FS-44

Date Collected: 03/15/24 09:31

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/22/24 23:46
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/22/24 23:46

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-44
Date Collected: 03/15/24 09:31
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:38
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 11:38
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 06:42

Client Sample ID: FS-45
Date Collected: 03/15/24 09:32
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 00:06
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 00:06
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 11:58
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 11:58
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 06:48

Client Sample ID: FS-46
Date Collected: 03/15/24 09:33
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 00:27
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 00:27
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:20
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 12:20
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:04

Client Sample ID: FS-47
Date Collected: 03/15/24 09:34
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 00:48
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 00:48
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 12:40
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 12:40

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-47

Lab Sample ID: 880-40965-47

Date Collected: 03/15/24 09:34

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:10

Client Sample ID: FS-48

Lab Sample ID: 880-40965-48

Date Collected: 03/15/24 09:35

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 01:09
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 01:09
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:01
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 13:01
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:15

Client Sample ID: FS-49

Lab Sample ID: 880-40965-49

Date Collected: 03/15/24 09:36

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 01:29
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 01:29
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:22
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 13:22
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:21

Client Sample ID: FS-50

Lab Sample ID: 880-40965-50

Date Collected: 03/15/24 09:37

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 01:50
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 01:50
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 13:42
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 13:42
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:26

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-51
Date Collected: 03/15/24 09:38
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 03:14
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 03:14
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 14:24
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 14:24
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:32

Client Sample ID: FS-52
Date Collected: 03/15/24 09:39
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 03:34
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 03:34
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 14:46
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 14:46
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:48

Client Sample ID: FS-53
Date Collected: 03/15/24 09:40
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 03:55
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 03:55
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:07
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 15:07
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 07:54

Client Sample ID: FS-54
Date Collected: 03/15/24 09:41
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 04:16
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 04:16

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-54

Lab Sample ID: 880-40965-54

Date Collected: 03/15/24 09:41

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:28
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 15:28
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 08:11

Client Sample ID: FS-55

Lab Sample ID: 880-40965-55

Date Collected: 03/15/24 09:42

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 04:36
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 04:36
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 15:49
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 15:49
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 08:16

Client Sample ID: FS-56

Lab Sample ID: 880-40965-56

Date Collected: 03/15/24 09:43

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 04:57
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 04:57
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 16:11
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 16:11
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 08:22

Client Sample ID: FS-57

Lab Sample ID: 880-40965-57

Date Collected: 03/15/24 09:44

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 05:18
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 05:18
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 16:32
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 16:32

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-57
Date Collected: 03/15/24 09:44
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 08:26

Client Sample ID: FS-58
Date Collected: 03/15/24 09:45
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 05:38
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 05:38
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 16:53
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 16:53
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 08:31

Client Sample ID: FS-59
Date Collected: 03/15/24 09:46
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 05:59
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 05:59
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:13
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 17:13
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 08:36

Client Sample ID: FS-60
Date Collected: 03/15/24 10:00
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75826	MNR	EET MID	03/18/24 10:52
Total/NA	Analysis	8021B		1	76264	MNR	EET MID	03/23/24 06:20
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 06:20
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/19/24 17:34
Total/NA	Prep	8015NM Prep			75833	TKC	EET MID	03/18/24 11:07
Total/NA	Analysis	8015B NM		1	75945	SM	EET MID	03/19/24 17:34
Soluble	Leach	DI Leach			75980	SA	EET MID	03/19/24 11:11
Soluble	Analysis	300.0		1	76035	CH	EET MID	03/20/24 08:41

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-61

Date Collected: 03/15/24 09:51

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-61

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 04:30
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 04:30
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 10:03
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 10:03
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 16:38

Client Sample ID: FS-62

Date Collected: 03/15/24 09:52

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-62

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 04:51
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 04:51
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 11:07
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 11:07
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 17:00

Client Sample ID: FS-63

Date Collected: 03/15/24 09:50

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-63

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 05:11
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 05:11
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 11:28
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 11:28
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 17:08

Client Sample ID: FS-64

Date Collected: 03/15/24 09:48

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-64

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 05:32
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 05:32

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Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-64

Date Collected: 03/15/24 09:48

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-64

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 11:49
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 11:49
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 17:15

Client Sample ID: FS-65

Date Collected: 03/15/24 09:44

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-65

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 05:52
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 05:52
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 12:10
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 12:10
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 17:22

Client Sample ID: FS-66

Date Collected: 03/15/24 09:42

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-66

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 06:13
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 06:13
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 12:32
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 12:32
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 17:45

Client Sample ID: FS-67

Date Collected: 03/15/24 09:40

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-67

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 06:33
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 06:33
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 12:53
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 12:53

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-67
Date Collected: 03/15/24 09:40
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 17:52

Client Sample ID: FS-68
Date Collected: 03/15/24 09:37
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-68
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 06:54
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 06:54
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 13:15
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 13:15
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 17:59

Client Sample ID: FS-69
Date Collected: 03/15/24 09:35
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-69
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 07:14
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 07:14
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 13:36
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 13:36
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 18:07

Client Sample ID: FS-70
Date Collected: 03/15/24 09:34
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-70
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 07:35
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 07:35
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 13:58
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 13:58
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 18:14

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-71

Date Collected: 03/15/24 09:30

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-71

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 09:23
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 09:23
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 14:41
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 14:41
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 18:22

Client Sample ID: FS-72

Date Collected: 03/15/24 09:29

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-72

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 09:49
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 09:49
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 15:02
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 15:02
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 18:44

Client Sample ID: FS-73

Date Collected: 03/15/24 09:28

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-73

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 10:18
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 10:18
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 15:24
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 15:24
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 18:51

Client Sample ID: FS-74

Date Collected: 03/15/24 09:26

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-74

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 10:38
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 10:38

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-74

Date Collected: 03/15/24 09:26

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-74

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 15:46
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 15:46
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 19:13

Client Sample ID: FS-75

Date Collected: 03/15/24 09:24

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-75

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 10:59
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 10:59
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 16:07
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 16:07
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 19:21

Client Sample ID: FS-76

Date Collected: 03/15/24 09:22

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-76

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 11:19
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 11:19
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 16:28
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 16:28
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 19:28

Client Sample ID: FS-77

Date Collected: 03/15/24 09:21

Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-77

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 11:40
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 11:40
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 16:50
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 16:50

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-77
Date Collected: 03/15/24 09:21
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-77
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 19:36

Client Sample ID: FS-78
Date Collected: 03/15/24 09:20
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-78
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 12:01
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 12:01
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 17:11
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 17:11
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 19:43

Client Sample ID: FS-79
Date Collected: 03/15/24 09:19
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-79
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 12:21
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 12:21
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 17:32
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 17:32
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 19:50

Client Sample ID: FS-80
Date Collected: 03/15/24 09:18
Date Received: 03/15/24 15:02

Lab Sample ID: 880-40965-80
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75827	MNR	EET MID	03/18/24 10:55
Total/NA	Analysis	8021B		1	76322	MNR	EET MID	03/23/24 12:42
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/23/24 12:42
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 17:53
Total/NA	Prep	8015NM Prep			75834	TKC	EET MID	03/18/24 11:10
Total/NA	Analysis	8015B NM		1	76065	SM	EET MID	03/20/24 17:53
Soluble	Leach	DI Leach			75994	SA	EET MID	03/19/24 11:44
Soluble	Analysis	300.0		1	76038	SMC	EET MID	03/20/24 19:58

Lab Chronicle

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Client Sample ID: FS-81

Lab Sample ID: 880-40965-81

Date Collected: 03/15/24 09:17

Matrix: Solid

Date Received: 03/15/24 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			75804	EL	EET MID	03/18/24 09:00
Total/NA	Analysis	8021B		1	75796	MNR	EET MID	03/19/24 11:04
Total/NA	Analysis	Total BTEX		1	76135	SM	EET MID	03/19/24 11:04
Total/NA	Analysis	8015 NM		1	76102	SM	EET MID	03/20/24 12:32
Total/NA	Prep	8015NM Prep			75874	EL	EET MID	03/18/24 13:00
Total/NA	Analysis	8015B NM		1	76067	SM	EET MID	03/20/24 12:32
Soluble	Leach	DI Leach			76018	SA	EET MID	03/19/24 14:37
Soluble	Analysis	300.0		1	76086	CH	EET MID	03/20/24 10:37

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-40965-1	FS-1	Solid	03/15/24 09:00	03/15/24 15:02	0.5'
880-40965-2	FS-2	Solid	03/15/24 09:05	03/15/24 15:02	0.5'
880-40965-3	FS-3	Solid	03/15/24 09:10	03/15/24 15:02	0.5'
880-40965-4	FS-4	Solid	03/15/24 09:15	03/15/24 15:02	0.5'
880-40965-5	FS-5	Solid	03/15/24 09:20	03/15/24 15:02	0.5'
880-40965-6	FS-6	Solid	03/15/24 09:25	03/15/24 15:02	0.5'
880-40965-7	FS-7	Solid	03/15/24 09:30	03/15/24 15:02	0.5'
880-40965-8	FS-8	Solid	03/15/24 09:35	03/15/24 15:02	0.5'
880-40965-9	FS-9	Solid	03/15/24 09:40	03/15/24 15:02	0.5'
880-40965-10	FS-10	Solid	03/15/24 09:45	03/15/24 15:02	0.5'
880-40965-11	FS-11	Solid	03/15/24 09:50	03/15/24 15:02	0.5'
880-40965-12	FS-12	Solid	03/15/24 09:55	03/15/24 15:02	0.5'
880-40965-13	FS-13	Solid	03/15/24 10:00	03/15/24 15:02	0.5'
880-40965-14	FS-14	Solid	03/15/24 10:05	03/15/24 15:02	0.5'
880-40965-15	FS-15	Solid	03/15/24 10:10	03/15/24 15:02	0.5'
880-40965-16	FS-16	Solid	03/15/24 10:15	03/15/24 15:02	0.5'
880-40965-17	FS-17	Solid	03/15/24 10:20	03/15/24 15:02	0.5'
880-40965-18	FS-18	Solid	03/15/24 10:25	03/15/24 15:02	0.5'
880-40965-19	FS-19	Solid	03/15/24 10:30	03/15/24 15:02	0.5'
880-40965-20	FS-20	Solid	03/15/24 10:35	03/15/24 15:02	0.5'
880-40965-21	FS-21	Solid	03/15/24 09:08	03/15/24 15:02	0.5'
880-40965-22	FS-22	Solid	03/15/24 09:09	03/15/24 15:02	0.5'
880-40965-23	FS-23	Solid	03/15/24 09:10	03/15/24 15:02	0.5'
880-40965-24	FS-24	Solid	03/15/24 09:11	03/15/24 15:02	0.5'
880-40965-25	FS-25	Solid	03/15/24 09:12	03/15/24 15:02	0.5'
880-40965-26	FS-26	Solid	03/15/24 09:13	03/15/24 15:02	0.5'
880-40965-27	FS-27	Solid	03/15/24 09:14	03/15/24 15:02	0.5'
880-40965-28	FS-28	Solid	03/15/24 09:15	03/15/24 15:02	0.5'
880-40965-29	FS-29	Solid	03/15/24 09:16	03/15/24 15:02	0.5'
880-40965-30	FS-30	Solid	03/15/24 09:17	03/15/24 15:02	0.5'
880-40965-31	FS-31	Solid	03/15/24 09:18	03/15/24 15:02	0.5'
880-40965-32	FS-32	Solid	03/15/24 09:19	03/15/24 15:02	0.5'
880-40965-33	FS-33	Solid	03/15/24 09:20	03/15/24 15:02	0.5'
880-40965-34	FS-34	Solid	03/15/24 09:21	03/15/24 15:02	0.5'
880-40965-35	FS-35	Solid	03/15/24 09:22	03/15/24 15:02	0.5'
880-40965-36	FS-36	Solid	03/15/24 09:21	03/15/24 15:02	0.5'
880-40965-37	FS-37	Solid	03/15/24 09:24	03/15/24 15:02	0.5'
880-40965-38	FS-38	Solid	03/15/24 09:25	03/15/24 15:02	0.5'
880-40965-39	FS-39	Solid	03/15/24 09:26	03/15/24 15:02	0.5'
880-40965-40	FS-40	Solid	03/15/24 09:27	03/15/24 15:02	0.5'
880-40965-41	FS-41	Solid	03/15/24 09:28	03/15/24 15:02	0.5'
880-40965-42	FS-42	Solid	03/15/24 09:29	03/15/24 15:02	0.5'
880-40965-43	FS-43	Solid	03/15/24 09:30	03/15/24 15:02	0.5'
880-40965-44	FS-44	Solid	03/15/24 09:31	03/15/24 15:02	0.5'
880-40965-45	FS-45	Solid	03/15/24 09:32	03/15/24 15:02	0.5'
880-40965-46	FS-46	Solid	03/15/24 09:33	03/15/24 15:02	0.5'
880-40965-47	FS-47	Solid	03/15/24 09:34	03/15/24 15:02	0.5'
880-40965-48	FS-48	Solid	03/15/24 09:35	03/15/24 15:02	0.5'
880-40965-49	FS-49	Solid	03/15/24 09:36	03/15/24 15:02	0.5'
880-40965-50	FS-50	Solid	03/15/24 09:37	03/15/24 15:02	0.5'
880-40965-51	FS-51	Solid	03/15/24 09:38	03/15/24 15:02	0.5'
880-40965-52	FS-52	Solid	03/15/24 09:39	03/15/24 15:02	0.5'
880-40965-53	FS-53	Solid	03/15/24 09:40	03/15/24 15:02	0.5'
880-40965-54	FS-54	Solid	03/15/24 09:41	03/15/24 15:02	0.5'

Sample Summary

Client: Ensolum
Project/Site: NexGen Produced Water Release

Job ID: 880-40965-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-40965-55	FS-55	Solid	03/15/24 09:42	03/15/24 15:02	0.5'
880-40965-56	FS-56	Solid	03/15/24 09:43	03/15/24 15:02	0.5'
880-40965-57	FS-57	Solid	03/15/24 09:44	03/15/24 15:02	0.5'
880-40965-58	FS-58	Solid	03/15/24 09:45	03/15/24 15:02	0.5'
880-40965-59	FS-59	Solid	03/15/24 09:46	03/15/24 15:02	0.5'
880-40965-60	FS-60	Solid	03/15/24 10:00	03/15/24 15:02	0.5'
880-40965-61	FS-61	Solid	03/15/24 09:51	03/15/24 15:02	0.5'
880-40965-62	FS-62	Solid	03/15/24 09:52	03/15/24 15:02	0.5'
880-40965-63	FS-63	Solid	03/15/24 09:50	03/15/24 15:02	0.5'
880-40965-64	FS-64	Solid	03/15/24 09:48	03/15/24 15:02	0.5'
880-40965-65	FS-65	Solid	03/15/24 09:44	03/15/24 15:02	0.5'
880-40965-66	FS-66	Solid	03/15/24 09:42	03/15/24 15:02	0.5'
880-40965-67	FS-67	Solid	03/15/24 09:40	03/15/24 15:02	0.5'
880-40965-68	FS-68	Solid	03/15/24 09:37	03/15/24 15:02	0.5'
880-40965-69	FS-69	Solid	03/15/24 09:35	03/15/24 15:02	0.5'
880-40965-70	FS-70	Solid	03/15/24 09:34	03/15/24 15:02	0.5'
880-40965-71	FS-71	Solid	03/15/24 09:30	03/15/24 15:02	0.5'
880-40965-72	FS-72	Solid	03/15/24 09:29	03/15/24 15:02	0.5'
880-40965-73	FS-73	Solid	03/15/24 09:28	03/15/24 15:02	0.5'
880-40965-74	FS-74	Solid	03/15/24 09:26	03/15/24 15:02	0.5'
880-40965-75	FS-75	Solid	03/15/24 09:24	03/15/24 15:02	0.5'
880-40965-76	FS-76	Solid	03/15/24 09:22	03/15/24 15:02	0.5'
880-40965-77	FS-77	Solid	03/15/24 09:21	03/15/24 15:02	0.5'
880-40965-78	FS-78	Solid	03/15/24 09:20	03/15/24 15:02	0.5'
880-40965-79	FS-79	Solid	03/15/24 09:19	03/15/24 15:02	0.5'
880-40965-80	FS-80	Solid	03/15/24 09:18	03/15/24 15:02	0.5'
880-40965-81	FS-81	Solid	03/15/24 09:17	03/15/24 15:02	0.5'

Chain of Custody

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



Environment Testing
 Xenco



880-40965 Chain of Custody

Project Manager: Tacoma Morrissey/Beaux Jennings		Bill to: (if different)		www.xenco.com Page 1 of 9	
Company Name: Ensolum, LLC		Company Name		Work Order Comments	
Address: 601 N Marientfeld St Suite 400		Address		Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
City, State ZIP: Midland, TX 79701		City, State ZIP		State of Project:	
Phone: 337-257-8307		Email: Tmorrissey@ensolum.com / Bjennings@ensolum.com		Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Project Name: NexGen Produced Water Release		Turn Around		Deliverables: EDD ☐ ADaPT ☐ Other	
Project Number: 03B2359002		Routine ☒ Rush ☐			
Project Location: Lea County, New Mexico		Due Date: 5 Day TAT			
Sampler's Name: Samantha MacKenzie		TAT starts the day received by the lab, if received by 4 30pm			
PO #: 03B2359002					
SAMPLE RECEIPT		Parameters		Preservative Codes	
Samples Received Intact: Yes ☒ No ☐		Thermometer ID: 210		None NO DI Water H ₂ O	
Cooler Custody Seals: Yes ☒ No ☐		Correction Factor: -1.0		Cool Cool MeOH Me	
Sample Custody Seals: Yes ☒ No ☐		Temperature Reading: 2.0		HCL HC HNO ₃ HN	
Total Containers: 1		Corrected Temperature: 1.9		H ₂ SO ₄ H ₂ NaOH Na	
				H ₃ PO ₄ HP	
				NaHSO ₄ NABIS	
				Na ₂ S ₂ O ₃ NaSO ₃	
				Zn Acetate+NaOH Zn	
				NaOH+Ascorbic Acid SAPC	
Sample Identification		Matrix		Sample Comments	
FS-1	S	3/15/2024	0.00	0.5'	
FS-2	S	3/15/2024	0.05	0.5'	
FS-3	S	3/15/2024	0.10	0.5'	
FS-4	S	3/15/2024	0.15	0.5'	
FS-5	S	3/15/2024	0.20	0.5'	
FS-6	S	3/15/2024	0.25	0.5'	
FS-7	S	3/15/2024	0.30	0.5'	
FS-8	S	3/15/2024	0.35	0.5'	
FS-9	S	3/15/2024	0.40	0.5'	
FS-10	S	3/15/2024	0.45	0.5'	
Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn			
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471			
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.					
Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1		3/15/24		2	
3		1502		4	
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40965



eurofins

Revised Date	08/25/2020	Rev	2020.2
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53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
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81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100



Chain of Custody

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

Environment Testing
Xenco

Work Order No:

40965

www.xenco.com Page 3 of 9

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Manager: Tacoma Morrissey/Beaux Jennings Bill to: (if different)

Company Name: Ensolum, LLC Company Name:

Address: 601 N Marlenfeld St. Suite 400 Address:

City, State ZIP: Midland, TX 79701 City, State ZIP

Phone: 337-257-8307 Email: Tmorrissey@ensolum.com / Bjennings@ensolum.com

ANALYSIS REQUEST										Preservative Codes		
Project Name:	NexGen Produced Water Release	Turn Around	Pres. Code	Parameters						Sample Comments		
Project Number:	03B2359002	☒ Routine ☐ Rush										
Project Location:	Lea County, New Mexico	Due Date:	5 Day TAT									
Sampler's Name:	Samantha MacKenzie	TAT starts the day received by the lab, if received by 4 30pm										
PO #:	03B2359002											
SAMPLE RECEIPT Samples Received Intact: Yes No Temp Blank: Yes No Wet Ice: Yes No Cooler Custody Seals: Yes No N/A Thermometer ID: Sample Custody Seals: Yes No N/A Correction Factor Total Containers:												
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont						
FS-21	S	3/15/2024	0906	0.5'	C	1	X	X	X	X		
FS-22	S	3/15/2024	0909	0.5'	C	1	X	X	X	X		
FS-23	S	3/15/2024	0910	0.5'	C	1	X	X	X	X		
FS-24	S	3/15/2024	0911	0.5'	C	1	X	X	X	X		
FS-25	S	3/15/2024	0912	0.5'	C	1	X	X	X	X		
FS-26	S	3/15/2024	0913	0.5'	C	1	X	X	X	X		
FS-27	S	3/15/2024	0914	0.5'	C	1	X	X	X	X		
FS-28	S	3/15/2024	0915	0.5'	C	1	X	X	X	X		
FS-29	S	3/15/2024	0916	0.5'	C	1	X	X	X	X		
FS-30	S	3/15/2024	0917	0.5'	C	1	X	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Meta(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	3/15/24	2		
		1502	4		
			6		



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300
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EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1256
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 40913

Project Manager: Tacoma Morrissey/Beaux Jennings		Bill to: (if different)		www.xenco.com Page 4 of 9	
Company Name: Ensolum, LLC		Company Name		Work Order Comments	
Address: 601 N Marienfeld St. Suite 400		Address		Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
City, State ZIP: Midland, TX 79701		City, State ZIP		State of Project:	
Phone: 337-257-8307		Email: T.morrissey@ensolum.com / Bjennings@ensolum.com		Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Project Name: NexGen Produced Water Release		Turn Around		Deliverables EDD ☐ ADAPT ☐ Other	
Project Number: 03B2359002		Rush ☐ 5 Day TAT		Preservative Codes	
Project Location: Lea County, New Mexico		Due Date:		None: NO DI Water: H ₂ O	
Sampler's Name: Samantha Mackenzie		TAT starts the day received by the lab, if received by 4 30pm		Cool Cool MeOH Me	
PO #: 03B2359002		Temp Blank: Yes No		HCL HC HNO ₃ HN	
Temp Blank: Yes No		Thermometer ID:		H ₂ SO ₄ H ₂ NaOH Na	
Cooler Custody Seals: Yes No		Correction Factor:		H ₃ PO ₄ HP	
Sample Custody Seals: Yes No		Temperature Reading:		NaHSO ₄ NABIS	
Total Containers:		Corrected Temperature:		Na ₂ S ₂ O ₃ NaSO ₃	
Sample Identification		Date Sampled		Zn Acetate+NaOH Zn	
Matrix		Time Sampled		NaOH+Ascorbic Acid SAPC	
S		0918		Sample Comments	
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Environment Testing
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Chain of Custody

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 40965

www.xenco.com Page 5 of 9

Work Order Comments

Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting Level II ☐ Deliverables EDD ☐ ADAPT ☐ Other

Project Manager: Tacoma Morrissey/Beaux Jennings Bill to: (if different)

Company Name: Ensolum, LLC Company Name:

Address: 601 N Marnefeld St. Suite 400 Address:

City, State ZIP: Midland, TX 79701 City, State ZIP:

Phone: 337-257-8307 Email: Tmorrissey@ensolum.com / Bjennings@ensolum.com

ANALYSIS REQUEST										Preservative Codes	
Project Name:	NexGen Produced Water Release	Turn Around	Pras. Code	Parameters						Sample Comments	
Project Number:	03B2359002	☒ Routine ☐ Rush									
Project Location:	Lea County, New Mexico	Due Date:									
Sampler's Name:	Samantha MacKenzie	TAT starts the day received by the lab, if received by 4 30pm									
PO #:	03B2359002										
SAMPLE RECEIPT Samples Received Intact: Yes No Thermometer ID: Cooler Custody Seals: Yes No N/A Correction Factor: Sample Custody Seals: Yes No N/A Temperature Reading: Total Containers: Corrected Temperature:											
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont					
FS-41	S	3/15/2024	0928	0.5'	C	1	X	X	X		
FS-42	S	3/15/2024	0929	0.5'	C	1	X	X	X		
FS-43	S	3/15/2024	0930	0.5'	C	1	X	X	X		
FS-44	S	3/15/2024	0931	0.5'	C	1	X	X	X		
FS-45	S	3/15/2024	0932	0.5'	C	1	X	X	X		
FS-46	S	3/15/2024	0933	0.5'	C	1	X	X	X		
FS-47	S	3/15/2024	0934	0.5'	C	1	X	X	X		
FS-48	S	3/15/2024	0935	0.5'	C	1	X	X	X		
FS-49	S	3/15/2024	0936	0.5'	C	1	X	X	X		
FS-50	S	3/15/2024	0937	0.5'	C	1	X	X	X		

TPH TX 1005 8015 Chlorides 2009 600

BTEX 8021 B

Preservative Codes: None NO, DI Water H₂O, Cool Cool, MeOH Me, HCL HC, HNO₃ HN, H₂SO₄ H₂, NaOH Na, H₃PO₄ HP, NaHSO₄ NABIS, Na₂S₂O₃ NaSO₃, Zn Acetate+NaOH Zn, NaOH+Ascorbic Acid SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/15/24			
3		3/15/24			
5		3/15/24			



Environment Testing
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Chain of Custody

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

Work Order No: 409165

Project Manager: Tacoma Morrissey/Beaux Jennings		Bill to: (if different)		www.xenco.com Page 6 of 9	
Company Name: Ensolum, LLC		Company Name:		Work Order Comments	
Address: 601 N Marnefeld St. Suite 400		Address:		Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
City, State ZIP: Midland, TX 79701		City, State ZIP:		State of Project: ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: 337-257-8307		Email: Tmorrissey@ensolum.com / Bjennings@ensolum.com		Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Project Name: NexGen Produced Water Release		Turn Around		Deliverables EDD ☐ ADAPT ☐ Other:	
Project Number: 03B2359002		Routing ☒ Rush ☐			
Project Location: Lea County, New Mexico		Due Date: 5 Day TAT			
Sampler's Name: Samantha Mackenzie		TAT starts the day received by the lab, if received by 4 30pm			
PO #: 03B2359002					
SAMPLE RECEIPT		Temp Blank: Yes No		Preservative Codes	
Samples Received Intact: Yes No		Thermometer ID:		None NO DI Water H ₂ O	
Cooler Custody Seals: Yes No N/A		Correction Factor:		Cool Cool MeOH Me	
Sample Custody Seals: Yes No N/A		Temperature Reading:		HCL HC HNO ₃ HN	
Total Containers:		Corrected Temperature:		H ₂ SO ₄ H ₂ NaOH Na	
Sample Identification		Matrix		H ₃ PO ₄ HP	
Date Sampled		Time Sampled		NaHSO ₄ NABIS	
Depth		Grab/Comp		Na ₂ S ₂ O ₃ NaSO ₃	
FS-51		S 3/15/2024 0938		Zn Acetate+NaOH Zn	
FS-52		S 3/15/2024 0939		NaOH+Ascorbic Acid SAPC	
FS-53		S 3/15/2024 0940			
FS-54		S 3/15/2024 0941			
FS-55		S 3/15/2024 0942			
FS-56		S 3/15/2024 0943			
FS-57		S 3/15/2024 0944			
FS-58		S 3/15/2024 0945			
FS-59		S 3/15/2024 0946			
FS-60		S 3/15/2024 1000			
Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn			
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471			
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.					
Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1 [Signature]		2 [Signature]		2 3/15/24	
3 [Signature]		4 [Signature]		4 1502	
5 [Signature]		6 [Signature]		6	

Revised Date: 08/25/2020 Rev 2020.2



Environment Testing
Xenco

Chain of Custody

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

Work Order No: 40965

Project Manager

Tacoma Morrissey/Beaux Jennings

Company Name

Ensolum, LLC

Address

601 N Marienfeld St Suite 400

City, State ZIP

Midland, TX 79701

Phone

337-257-8307

Bill to, (if different)

Company Name

Address

City, State ZIP

Email

Tmorrissey@ensolum.com / Bjennings@ensolum.com

Project Name

NexGen Produced Water Release

Project Number

03B2359002

Project Location

Lea County, New Mexico

Sampler's Name

Samantha MacKenzie

PO #

03B2359002

SAMPLE RECEIPT

Samples Received Intact: Yes No

Cooler Custody Seals: Yes No

Sample Custody Seals: Yes No

Total Containers: Yes No

Temp Blank: Yes No

Thermometer ID: Yes No

Correction Factor: Yes No

Temperature Reading: Yes No

Corrected Temperature: Yes No

Turn Around

Routine

Due Date:

TAT starts the day received by the lab, if received by 4 30pm

5 Day TAT

Wet Ice: Yes No

Thermometer ID: Yes No

Correction Factor: Yes No

Temperature Reading: Yes No

Corrected Temperature: Yes No

Project Name

Project Number

Project Location

Sampler's Name

PO #

Matrix

Date Sampled

Time Sampled

Depth

Grab/Comp

of Cont

FS-61

S

3/15/2024

0945

0.5'

C

1

FS-62

S

3/15/2024

0952

0.5'

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1

FS-63

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0.5'

C

1

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0948

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C

1

FS-67

S

3/15/2024

0940

0.5'

C

1

FS-68

S

3/15/2024

0937

0.5'

C

1

FS-69

S

3/15/2024

0935

0.5'

C

1

FS-70

S

3/15/2024

0934

0.5'

C

1

Parameters

TPH TX 4006

Chlorides 2008-600

BTEX 8021 B

Pres. Code

8015

600

ANALYSIS REQUEST

None NO

Cool Cool

HCL HC

H₂SO₄ H₂

H₃PO₄ HP

NaHSO₄ NABIS

Na₂S₂O₃ NaSO₃

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Preservative Codes

DI Water H₂O

MeOH Me

HNO₃ HN

NaOH Na

Sample Comments

Project Name

Project Number

Project Location

Sampler's Name

PO #

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Parameters

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Pres. Code

8015

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Sample Comments

Project Name

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco

Work Order No: 400105

Project Manager:	Tacoma Morrissey/Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St. Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	337-257-8307	Email:	Tmorrissey@ensolum.com / Bjennings@ensolum.com

www.xenco.com		Page	8	of	9
Work Order Comments					
Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐					
State of Project:					
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐					
Deliverables EDD ☐ ADAPT ☐ Other					

ANALYSIS REQUEST										Preservative Codes				
Project Name:	NexGen Produced Water Release	Turn Around	Pres. Code							None	NO	DI Water	H ₂ O	
Project Number:	03B2359002	☒ Routine ☐ Rush								Cool	Cool	MeOH	Me	
Project Location:	Lea County, New Mexico	Due Date:	5 Day TAT							HCL	HC	HNO ₃	HN	
Sampler's Name:	Samantha MacKenzie	TAT starts the day received by the lab, if received by 4 30pm								H ₂ SO ₄	H ₂	NaOH	Na	
PO #:	03B2359002	Temp Blank:	Yes No	Thermometer ID:							H ₃ PO ₄	HP		
SAMPLE RECEIPT		Yes No	Yes No	Correction Factor:							NaHSO ₄	NABIS		
Samples Received Intact:		Yes No	N/A	Temperature Reading:							Na ₂ S ₂ O ₃	NaSO ₃		
Cooler Custody Seals:		Yes No	N/A	Corrected Temperature:							Zn	Acetate+NaOH	Zn	
Sample Custody Seals:		Yes No	N/A								NaOH+Ascorbic Acid	SAPC		
Total Containers:														
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont								
FS-71	S	3/15/2024	0930	0.5'	C	1	X	X	X	X	X	X		
FS-72	S	3/15/2024	0929	0.5'	C	1	X	X	X	X	X	X		
FS-73	S	3/15/2024	0928	0.5'	C	1	X	X	X	X	X	X		
FS-74	S	3/15/2024	0926	0.5'	C	1	X	X	X	X	X	X		
FS-75	S	3/15/2024	0924	0.5'	C	1	X	X	X	X	X	X		
FS-76	S	3/15/2024	0922	0.5'	C	1	X	X	X	X	X	X		
FS-77	S	3/15/2024	0921	0.5'	C	1	X	X	X	X	X	X		
FS-78	S	3/15/2024	0920	0.5'	C	1	X	X	X	X	X	X		
FS-79	S	3/15/2024	0919	0.5'	C	1	X	X	X	X	X	X		
FS-80	S	3/15/2024	0918	0.5'	C	1	X	X	X	X	X	X		

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/15/24 1502			

Chain of Custody

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

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Loc: 880
40965

Work Order No: —

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-40965-1
SDG Number: Lea County, New Mexico

Login Number: 40965

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/12/2024 3:19:49 PM

JOB DESCRIPTION

Fex Carnival Nexgen Line
Lea County

JOB NUMBER

880-47046-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/12/2024 3:19:49 PM

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

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Laboratory Job ID: 880-47046-1
SDG: Lea County

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Definitions/Glossary

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: Fex Carnival Nexgen Line

Job ID: 880-47046-1

Job ID: 880-47046-1

Eurofins Midland

Job Narrative 880-47046-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 8/8/2024 1:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

GC VOA

Method 8021B: The continuing calibration blank (CCB) for analytical batch 880-88085 contained Ethylbenzene above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-88064 and 880-88065 and analytical batch 880-88085 was outside the upper control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-88065 and analytical batch 880-88085 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87921 and analytical batch 880-88019 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-87921 and analytical batch 880-88019 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-87921/3-A), (880-47007-A-46-D MS) and (880-47007-A-46-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-88019 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: FS-3 (880-47046-1). Percent recoveries are based on the amount spiked.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87967 and analytical batch 880-87979 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Eurofins Midland

Case Narrative

Client: Ensolum
Project: Fex Carnival Nexgen Line

Job ID: 880-47046-1

Job ID: 880-47046-1 (Continued) **Eurofins Midland**

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

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Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Client Sample ID: FS-3

Lab Sample ID: 880-47046-1

Date Collected: 08/08/24 08:45

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00200	0.00139	mg/Kg		08/09/24 16:06	08/11/24 13:03	1
Toluene	<0.00202	U	0.00200	0.00200	mg/Kg		08/09/24 16:06	08/11/24 13:03	1
Ethylbenzene	<0.00110	U	0.00200	0.00109	mg/Kg		08/09/24 16:06	08/11/24 13:03	1
m-Xylene & p-Xylene	<0.00231	U	0.00400	0.00229	mg/Kg		08/09/24 16:06	08/11/24 13:03	1
o-Xylene	<0.00160	U **	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 13:03	1
Xylenes, Total	<0.00231	U	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/09/24 16:06	08/11/24 13:03	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/09/24 16:06	08/11/24 13:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00200	0.00109	mg/Kg			08/11/24 13:03	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/09/24 20:32	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U ** *1	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 20:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U ** *1	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 20:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 20:32	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	08/08/24 14:18	08/09/24 20:32	1
o-Terphenyl	136	S1+	70 - 130	08/08/24 14:18	08/09/24 20:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309	F1	5.00	0.395	mg/Kg			08/11/24 05:17	1

Client Sample ID: FS-4

Lab Sample ID: 880-47046-2

Date Collected: 08/08/24 08:48

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00200	0.00139	mg/Kg		08/09/24 16:06	08/11/24 13:23	1
Toluene	<0.00202	U	0.00200	0.00200	mg/Kg		08/09/24 16:06	08/11/24 13:23	1
Ethylbenzene	0.00115	J	0.00200	0.00109	mg/Kg		08/09/24 16:06	08/11/24 13:23	1
m-Xylene & p-Xylene	<0.00230	U	0.00400	0.00229	mg/Kg		08/09/24 16:06	08/11/24 13:23	1
o-Xylene	<0.00160	U **	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 13:23	1
Xylenes, Total	<0.00230	U	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 13:23	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Client Sample ID: FS-4

Lab Sample ID: 880-47046-2

Date Collected: 08/08/24 08:48

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/09/24 16:06	08/11/24 13:23	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/09/24 16:06	08/11/24 13:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00200	0.00109	mg/Kg			08/11/24 13:23	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/09/24 20:49	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U ** *1	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 20:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U ** *1	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 20:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 20:49	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	08/08/24 14:18	08/09/24 20:49	1
o-Terphenyl	117		70 - 130	08/08/24 14:18	08/09/24 20:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.00	0.395	mg/Kg			08/11/24 05:35	1

Client Sample ID: FS-5

Lab Sample ID: 880-47046-3

Date Collected: 08/08/24 08:50

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/09/24 16:06	08/11/24 13:44	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/09/24 16:06	08/11/24 13:44	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/09/24 16:06	08/11/24 13:44	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00229	mg/Kg		08/09/24 16:06	08/11/24 13:44	1
o-Xylene	<0.00158	U **	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 13:44	1
Xylenes, Total	<0.00228	U	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/09/24 16:06	08/11/24 13:44	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/09/24 16:06	08/11/24 13:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00200	0.00109	mg/Kg			08/11/24 13:44	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Client Sample ID: FS-5

Lab Sample ID: 880-47046-3

Date Collected: 08/08/24 08:50

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.1	mg/Kg			08/09/24 21:06	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U ** *1	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 21:06	1
Diesel Range Organics (Over C10-C28)	<15.0	U ** *1	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 21:06	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 21:06	1
Total TPH	<15.0	U	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/08/24 14:18	08/09/24 21:06	1
o-Terphenyl	119		70 - 130	08/08/24 14:18	08/09/24 21:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.8		5.00	0.395	mg/Kg			08/11/24 05:41	1

Client Sample ID: SW-01

Lab Sample ID: 880-47046-4

Date Collected: 08/08/24 09:15

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 0-5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/09/24 16:06	08/11/24 14:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/09/24 16:06	08/11/24 14:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/09/24 16:06	08/11/24 14:04	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/09/24 16:06	08/11/24 14:04	1
o-Xylene	<0.00158	U **	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 14:04	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/09/24 16:06	08/11/24 14:04	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/09/24 16:06	08/11/24 14:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			08/11/24 14:04	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/09/24 21:23	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U ** *1	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 21:23	1
Diesel Range Organics (Over C10-C28)	<15.1	U ** *1	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 21:23	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 21:23	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Client Sample ID: SW-01

Lab Sample ID: 880-47046-4

Date Collected: 08/08/24 09:15

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 0-5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/08/24 14:18	08/09/24 21:23	1
o-Terphenyl	117		70 - 130				08/08/24 14:18	08/09/24 21:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.1		5.00	0.395	mg/Kg			08/11/24 05:48	1

Client Sample ID: SW-02

Lab Sample ID: 880-47046-5

Date Collected: 08/08/24 09:17

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 0-5'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00200	0.00139	mg/Kg		08/09/24 16:06	08/11/24 14:25	1
Toluene	<0.00201	U	0.00200	0.00200	mg/Kg		08/09/24 16:06	08/11/24 14:25	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/09/24 16:06	08/11/24 14:25	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/09/24 16:06	08/11/24 14:25	1
o-Xylene	<0.00159	U **	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 14:25	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/09/24 16:06	08/11/24 14:25	1
1,4-Difluorobenzene (Surr)	114		70 - 130				08/09/24 16:06	08/11/24 14:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			08/11/24 14:25	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/09/24 21:40	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U ** *1	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 21:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U ** *1	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 21:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 21:40	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				08/08/24 14:18	08/09/24 21:40	1
o-Terphenyl	127		70 - 130				08/08/24 14:18	08/09/24 21:40	1

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Client Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Client Sample ID: SW-02

Lab Sample ID: 880-47046-5

Date Collected: 08/08/24 09:17

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 0-5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6		5.00	0.395	mg/Kg			08/11/24 05:54	1

Client Sample ID: FS-9

Lab Sample ID: 880-47046-6

Date Collected: 08/08/24 09:30

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 0-5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.09		5.00	0.395	mg/Kg			08/11/24 06:12	1

Client Sample ID: FS-16

Lab Sample ID: 880-47046-7

Date Collected: 08/08/24 09:34

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 0-5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.4		5.00	0.395	mg/Kg			08/11/24 06:18	1

Client Sample ID: FS-28

Lab Sample ID: 880-47046-8

Date Collected: 08/08/24 09:40

Matrix: Solid

Date Received: 08/08/24 13:42

Sample Depth: 0-5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		5.00	0.395	mg/Kg			08/11/24 06:24	1

Surrogate Summary

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-47046-1	FS-3	119	115
880-47046-2	FS-4	111	110
880-47046-3	FS-5	124	116
880-47046-4	SW-01	113	109
880-47046-5	SW-02	119	114
LCS 880-88065/1-A	Lab Control Sample	105	105
LCSD 880-88065/2-A	Lab Control Sample Dup	102	103
MB 880-88064/5-A	Method Blank	187 S1+	144 S1+
MB 880-88065/5-A	Method Blank	202 S1+	157 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-47046-1	FS-3	131 S1+	136 S1+
880-47046-2	FS-4	115	117
880-47046-3	FS-5	116	119
880-47046-4	SW-01	112	117
880-47046-5	SW-02	123	127
LCS 880-87921/2-A	Lab Control Sample	170 S1+	196 S1+
LCSD 880-87921/3-A	Lab Control Sample Dup	119	133 S1+
MB 880-87921/1-A	Method Blank	267 S1+	277 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88064/5-A

Matrix: Solid

Analysis Batch: 88085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88064

Analyte	MB	MB	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/09/24 16:04	08/10/24 18:20	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/09/24 16:04	08/10/24 18:20	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/09/24 16:04	08/10/24 18:20	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/09/24 16:04	08/10/24 18:20	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/09/24 16:04	08/10/24 18:20	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		08/09/24 16:04	08/10/24 18:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130	08/09/24 16:04	08/10/24 18:20	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130	08/09/24 16:04	08/10/24 18:20	1

Lab Sample ID: MB 880-88065/5-A

Matrix: Solid

Analysis Batch: 88085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88065

Analyte	MB	MB	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/09/24 16:06	08/11/24 05:58	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/09/24 16:06	08/11/24 05:58	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/09/24 16:06	08/11/24 05:58	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/09/24 16:06	08/11/24 05:58	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 05:58	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		08/09/24 16:06	08/11/24 05:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130	08/09/24 16:06	08/11/24 05:58	1
1,4-Difluorobenzene (Surr)	157	S1+	70 - 130	08/09/24 16:06	08/11/24 05:58	1

Lab Sample ID: LCS 880-88065/1-A

Matrix: Solid

Analysis Batch: 88085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1215		mg/Kg		122	70 - 130
Toluene	0.100	0.1167		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2390		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1384	*+	mg/Kg		138	70 - 130

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

Lab Sample ID: LCSD 880-88065/2-A

Matrix: Solid

Analysis Batch: 88085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09685		mg/Kg		97	70 - 130	23	35

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-88065/2-A
Matrix: Solid
Analysis Batch: 88085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09406		mg/Kg		94	70 - 130	21	35
Ethylbenzene	0.100	0.08732		mg/Kg		87	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1926		mg/Kg		96	70 - 130	22	35
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130	20	35
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
4-Bromofluorobenzene (Surr)	102		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

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

Lab Sample ID: MB 880-87921/1-A
Matrix: Solid
Analysis Batch: 88019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87921

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 09:21	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 09:21	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/24 14:18	08/09/24 09:21	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		08/08/24 14:18	08/09/24 09:21	1
Surrogate	%Recovery	MB Qualifier	MB Limits						
1-Chlorooctane	267	S1+	70 - 130						
o-Terphenyl	277	S1+	70 - 130						

Lab Sample ID: LCS 880-87921/2-A
Matrix: Solid
Analysis Batch: 88019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87921

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits		
			Added	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10			1000	1500	*+	mg/Kg		150		70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1791	*+	mg/Kg		179		70 - 130		
Surrogate	LCS	LCS	Limits									
	%Recovery	Qualifier										
1-Chlorooctane	170	S1+	70 - 130									
o-Terphenyl	196	S1+	70 - 130									

Lab Sample ID: LCSD 880-87921/3-A
Matrix: Solid
Analysis Batch: 88019

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87921

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1115	*1	mg/Kg		111	70 - 130	29	20
Diesel Range Organics (Over C10-C28)	1000	1243	*1	mg/Kg		124	70 - 130	36	20

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QC Sample Results

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	119		70 - 130
o-Terphenyl	133	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87967/1-A

Matrix: Solid

Analysis Batch: 87979

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB		MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/11/24 04:59	1

Lab Sample ID: LCS 880-87967/2-A

Matrix: Solid

Analysis Batch: 87979

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	263.5		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-87967/3-A

Matrix: Solid

Analysis Batch: 87979

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	263.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-47046-1 MS

Matrix: Solid

Analysis Batch: 87979

Client Sample ID: FS-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	309	F1	249	459.7	F1	mg/Kg		60	90 - 110		

Lab Sample ID: 880-47046-1 MSD

Matrix: Solid

Analysis Batch: 87979

Client Sample ID: FS-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	309	F1	249	559.8		mg/Kg		101	90 - 110	20	20

QC Association Summary

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

GC VOA

Prep Batch: 88064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88064/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 88065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Total/NA	Solid	5035	
880-47046-2	FS-4	Total/NA	Solid	5035	
880-47046-3	FS-5	Total/NA	Solid	5035	
880-47046-4	SW-01	Total/NA	Solid	5035	
880-47046-5	SW-02	Total/NA	Solid	5035	
MB 880-88065/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88065/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88065/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 88085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Total/NA	Solid	8021B	88065
880-47046-2	FS-4	Total/NA	Solid	8021B	88065
880-47046-3	FS-5	Total/NA	Solid	8021B	88065
880-47046-4	SW-01	Total/NA	Solid	8021B	88065
880-47046-5	SW-02	Total/NA	Solid	8021B	88065
MB 880-88064/5-A	Method Blank	Total/NA	Solid	8021B	88064
MB 880-88065/5-A	Method Blank	Total/NA	Solid	8021B	88065
LCS 880-88065/1-A	Lab Control Sample	Total/NA	Solid	8021B	88065
LCSD 880-88065/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88065

Analysis Batch: 88211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Total/NA	Solid	Total BTEX	
880-47046-2	FS-4	Total/NA	Solid	Total BTEX	
880-47046-3	FS-5	Total/NA	Solid	Total BTEX	
880-47046-4	SW-01	Total/NA	Solid	Total BTEX	
880-47046-5	SW-02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Total/NA	Solid	8015NM Prep	
880-47046-2	FS-4	Total/NA	Solid	8015NM Prep	
880-47046-3	FS-5	Total/NA	Solid	8015NM Prep	
880-47046-4	SW-01	Total/NA	Solid	8015NM Prep	
880-47046-5	SW-02	Total/NA	Solid	8015NM Prep	
MB 880-87921/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87921/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Total/NA	Solid	8015B NM	87921
880-47046-2	FS-4	Total/NA	Solid	8015B NM	87921
880-47046-3	FS-5	Total/NA	Solid	8015B NM	87921

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QC Association Summary

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

GC Semi VOA (Continued)

Analysis Batch: 88019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-4	SW-01	Total/NA	Solid	8015B NM	87921
880-47046-5	SW-02	Total/NA	Solid	8015B NM	87921
MB 880-87921/1-A	Method Blank	Total/NA	Solid	8015B NM	87921
LCS 880-87921/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87921
LCSD 880-87921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87921

Analysis Batch: 88119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Total/NA	Solid	8015 NM	
880-47046-2	FS-4	Total/NA	Solid	8015 NM	
880-47046-3	FS-5	Total/NA	Solid	8015 NM	
880-47046-4	SW-01	Total/NA	Solid	8015 NM	
880-47046-5	SW-02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Soluble	Solid	DI Leach	
880-47046-2	FS-4	Soluble	Solid	DI Leach	
880-47046-3	FS-5	Soluble	Solid	DI Leach	
880-47046-4	SW-01	Soluble	Solid	DI Leach	
880-47046-5	SW-02	Soluble	Solid	DI Leach	
880-47046-6	FS-9	Soluble	Solid	DI Leach	
880-47046-7	FS-16	Soluble	Solid	DI Leach	
880-47046-8	FS-28	Soluble	Solid	DI Leach	
MB 880-87967/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87967/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87967/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47046-1 MS	FS-3	Soluble	Solid	DI Leach	
880-47046-1 MSD	FS-3	Soluble	Solid	DI Leach	

Analysis Batch: 87979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47046-1	FS-3	Soluble	Solid	300.0	87967
880-47046-2	FS-4	Soluble	Solid	300.0	87967
880-47046-3	FS-5	Soluble	Solid	300.0	87967
880-47046-4	SW-01	Soluble	Solid	300.0	87967
880-47046-5	SW-02	Soluble	Solid	300.0	87967
880-47046-6	FS-9	Soluble	Solid	300.0	87967
880-47046-7	FS-16	Soluble	Solid	300.0	87967
880-47046-8	FS-28	Soluble	Solid	300.0	87967
MB 880-87967/1-A	Method Blank	Soluble	Solid	300.0	87967
LCS 880-87967/2-A	Lab Control Sample	Soluble	Solid	300.0	87967
LCSD 880-87967/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87967
880-47046-1 MS	FS-3	Soluble	Solid	300.0	87967
880-47046-1 MSD	FS-3	Soluble	Solid	300.0	87967

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Client Sample ID: FS-3
Date Collected: 08/08/24 08:45
Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			88065	MNR	EET MID	08/09/24 16:06
Total/NA	Analysis	8021B		1	88085	EL	EET MID	08/11/24 13:03
Total/NA	Analysis	Total BTEX		1	88211	SM	EET MID	08/11/24 13:03
Total/NA	Analysis	8015 NM		1	88119	SM	EET MID	08/09/24 20:32
Total/NA	Prep	8015NM Prep			87921	EL	EET MID	08/08/24 14:18
Total/NA	Analysis	8015B NM		1	88019	TKC	EET MID	08/09/24 20:32
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 05:17

Client Sample ID: FS-4
Date Collected: 08/08/24 08:48
Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			88065	MNR	EET MID	08/09/24 16:06
Total/NA	Analysis	8021B		1	88085	EL	EET MID	08/11/24 13:23
Total/NA	Analysis	Total BTEX		1	88211	SM	EET MID	08/11/24 13:23
Total/NA	Analysis	8015 NM		1	88119	SM	EET MID	08/09/24 20:49
Total/NA	Prep	8015NM Prep			87921	EL	EET MID	08/08/24 14:18
Total/NA	Analysis	8015B NM		1	88019	TKC	EET MID	08/09/24 20:49
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 05:35

Client Sample ID: FS-5
Date Collected: 08/08/24 08:50
Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			88065	MNR	EET MID	08/09/24 16:06
Total/NA	Analysis	8021B		1	88085	EL	EET MID	08/11/24 13:44
Total/NA	Analysis	Total BTEX		1	88211	SM	EET MID	08/11/24 13:44
Total/NA	Analysis	8015 NM		1	88119	SM	EET MID	08/09/24 21:06
Total/NA	Prep	8015NM Prep			87921	EL	EET MID	08/08/24 14:18
Total/NA	Analysis	8015B NM		1	88019	TKC	EET MID	08/09/24 21:06
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 05:41

Client Sample ID: SW-01
Date Collected: 08/08/24 09:15
Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			88065	MNR	EET MID	08/09/24 16:06
Total/NA	Analysis	8021B		1	88085	EL	EET MID	08/11/24 14:04
Total/NA	Analysis	Total BTEX		1	88211	SM	EET MID	08/11/24 14:04

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Client Sample ID: SW-01

Date Collected: 08/08/24 09:15

Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	88119	SM	EET MID	08/09/24 21:23
Total/NA	Prep	8015NM Prep			87921	EL	EET MID	08/08/24 14:18
Total/NA	Analysis	8015B NM		1	88019	TKC	EET MID	08/09/24 21:23
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 05:48

Client Sample ID: SW-02

Date Collected: 08/08/24 09:17

Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			88065	MNR	EET MID	08/09/24 16:06
Total/NA	Analysis	8021B		1	88085	EL	EET MID	08/11/24 14:25
Total/NA	Analysis	Total BTEX		1	88211	SM	EET MID	08/11/24 14:25
Total/NA	Analysis	8015 NM		1	88119	SM	EET MID	08/09/24 21:40
Total/NA	Prep	8015NM Prep			87921	EL	EET MID	08/08/24 14:18
Total/NA	Analysis	8015B NM		1	88019	TKC	EET MID	08/09/24 21:40
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 05:54

Client Sample ID: FS-9

Date Collected: 08/08/24 09:30

Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 06:12

Client Sample ID: FS-16

Date Collected: 08/08/24 09:34

Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 06:18

Client Sample ID: FS-28

Date Collected: 08/08/24 09:40

Date Received: 08/08/24 13:42

Lab Sample ID: 880-47046-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			87967	SA	EET MID	08/09/24 09:10
Soluble	Analysis	300.0		1	87979	CH	EET MID	08/11/24 06:24

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Fex Carnival Nexgen Line

Job ID: 880-47046-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-47046-1	FS-3	Solid	08/08/24 08:45	08/08/24 13:42	5'
880-47046-2	FS-4	Solid	08/08/24 08:48	08/08/24 13:42	5'
880-47046-3	FS-5	Solid	08/08/24 08:50	08/08/24 13:42	5'
880-47046-4	SW-01	Solid	08/08/24 09:15	08/08/24 13:42	0-5'
880-47046-5	SW-02	Solid	08/08/24 09:17	08/08/24 13:42	0-5'
880-47046-6	FS-9	Solid	08/08/24 09:30	08/08/24 13:42	0-5'
880-47046-7	FS-16	Solid	08/08/24 09:34	08/08/24 13:42	0-5'
880-47046-8	FS-28	Solid	08/08/24 09:40	08/08/24 13:42	0-5'





Chain of Custody
Houston, TX (281) 240-4200, Dallas, TX (214) 302-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1236
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Work

880-47046 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. McCarty Blvd Ste 400	Address:	
City, State ZIP:	Midland, TX, 79701	City, State ZIP:	
Phone:	210-219-2858	Email:	bjenning@ensolum.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAP ☐ Other: ☐

Project Name:	Fez Carnival Nueceshine	Turn Around	☐ Routine ☐ Rush	Pres. Code	
Project Number:	03B2357002	Due Date:			
Project Location:	Lee County	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Tabitha Gueden				
P.O. #:	03B2357002				
SAMPLE RECEIPT					
Samples Received Intact:	Temp/Blk: Yes No	Wet Ice: Yes No			
Cooler Custody Seals:	Yes No	Thermometer ID: 0-1			
Sample Custody Seals:	Yes No	Temperature Reading: 3.2			
Total Containers:	Yes No	Corrected Temperature: 3.1			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST										Preservative Codes		Sample Comments
							Chlorides	BTEX	TPH								None: NO	DI Water: H ₂ O	
FS-3	S	8/8/24	0845	5'	C	1	X	X	X								Cool: Cool	MeOH: Me	
FS-4	S		0848	5'		1	X	X	X								HCL: HC	HNO ₃ : HN	
FS-5	S		0850	5'		1	X	X	X								H ₂ SO ₄ : H ₂	NaOH: Na	
SW-01	S		0915	0-5'		1	X	X	X								H ₃ PO ₄ : HP		
SW-02	S		0917	0-5'		1	X	X	X								NaHSO ₄ : NABIS		
FS-9	S		0930	0-5'		1	X										Na ₂ S ₂ O ₃ : NaSO ₃		
FS-1b	S		0939	0.5'		1	X										Zn Acetate+NaOH: Zn		
FS-2B	S		0940	0.5'		1	X										NaOH+Ascorbic Acid: SAPC		

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

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		8/8/24			
		1343			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-47046-1

SDG Number: Lea County

Login Number: 47046
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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



ATTACHMENT F

C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2321440405
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water, LLC	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 432-203-9020 C 469-978-5620
Contact email Rob.Kirk@ariswater.com	Incident # (assigned by OCD) nAPP2321440405
Contact mailing address 3305 Boyd Dr, Carlsbad NM 88220	

Location of Release Source

Latitude 32.157425 Longitude -103.364361
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Fez Carnival NexGen Line	Site Type Layflat Water Line
Date Release Discovered 1 Aug 2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
I	04	25S	35E	Lea

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) 480	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A third-party, 3 R Trucking LLC working for Sun Belt Rentals, ran into a lay flat line that NexGen was using to pump treated Produce Water to Franklin Mountain Energy for a frac. Workers on site saw the incident and turned off the pumps.

Oil Conservation Division

Incident ID	nAPP2321440405
District RP	
Facility ID	
Application ID	

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? The volume of produced water released
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NMOCD web portal NOR completed by Rob Kirk, email to NMOCD	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rob Kirk</u>	Title: <u>Vice President, Environmental Compliance</u>
Signature: 	Date: <u>7 Aug 2023</u>
email: <u>Rob.Kirk@ariswater.com</u>	Telephone: <u>O 432-203-9020 C 469-978-5620</u>
<u>OCD Only</u> Received by: _____ Date: _____	



ATTACHMENT G

Referenced Well Records

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGINEER

Section 1. GENERAL INFORMATION

(A) Owner of well Florida Oil and Gas Co. Owner's Well No. Reno Comm. # 1
Street or Post Office Address 900 Vaughn Bldg.
City and State Midland, Texas 79701

Well was drilled under Permit No. CP-624 and is located in the:
1200' FNL 1200' FWL
a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 11 Township 25S Range 35E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46
Address P.O. Box 637, Hobbs, New Mexico 88240
Drilling Began 7/14/80 Completed 7/17/80 Type tools Cable Size of hole 8 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 510 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well DRY HOLE ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
			DRY HOLE	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor Abbott Bros.
Address P.O. Box 637, Hobbs, New Mexico
Plugging Method Ruble, cement plug at top, covered
Date Well Plugged 7/17/80 w/dirt.
Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received July 23, 1980
Quad _____ FWL _____ FSL _____
File No. CP-624 Use OWD Location No. 25.35.11.11444

[illegible]

STATE ENGINEER OFFICE
ROSWELL, N. M.

Murrell Abbott
Driller *H.B.*

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled or being drilled. If the well is used as a plugging record, only Section 1(a) and Section 3 need be completed.



ATTACHMENT H

Photographic Log

Project: Fez Carnival NexGen Line
Entity: Solaris Water, LLC
Project #: 03B2359002



View of the affected area, facing northwest (03/14/2024).



View of the affected area, facing northwest (03/14/2024).

Project: Fez Carnival NexGen Line
Entity: Solaris Water, LLC
Project #: 03B2359002



View of the affected area, facing southeast (03/14/2024).



View of the excavation activities

Project: Fez Carnival NexGen Line
Entity: Solaris Water, LLC
Project #: 03B2359002



View of the backfilled area.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 397273

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321440405
Incident Name	NAPP2321440405 FEZ CARNIVAL NEXGEN LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	FEZ CARNIVAL NEXGEN LINE
Date Release Discovered	08/01/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Pipeline (Any) Produced Water Released: 480 BBL Recovered: 0 BBL Lost: 480 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A third party driver from 3 R Trucking LLC working for Sun Belt rentals hit the lay hose being operated by NexGen Water Solutions proving water to a frac being performed by Franklin Mountain Energy.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 397273

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Julian Romero Title: Environmental Advisor Email: julian.romero@ariswater.com Date: 10/30/2024
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 397273

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	9780
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	15.2
GRO+DRO (EPA SW-846 Method 8015M)	44.1
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/11/2023
On what date will (or did) the final sampling or liner inspection occur	08/08/2024
On what date will (or was) the remediation complete(d)	08/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	1600
What is the estimated volume (in cubic yards) that will be reclaimed	296
What is the estimated surface area (in square feet) that will be remediated	1600
What is the estimated volume (in cubic yards) that will be remediated	296
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 397273

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Julian Romero Title: Environmental Advisor Email: julian.romero@ariswater.com Date: 10/30/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 397273

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 397273

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	370779
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/08/2024
What was the (estimated) number of samples that were to be gathered	70
What was the sampling surface area in square feet	13000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1600
What was the total volume (cubic yards) remediated	296
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1600
What was the total volume (in cubic yards) reclaimed	296
Summarize any additional remediation activities not included by answers (above)	N/A

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Julian Romero Title: Environmental Advisor Email: julian.romero@ariswater.com Date: 10/30/2024
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QUESTIONS, Page 7

Action 397273

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 397273

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 397273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The Remediation Closure Report is approved. Please proceed to finalize and submit the Reclamation Plan as per 19.15.29.13 NMAC.	3/6/2025