



ENTERPRISE PRODUCTS PARTNERS L.P.  
ENTERPRISE PRODUCTS HOLDINGS LLC  
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

April 27, 2026

Submitted online via OCD E-Permitting:  
<https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx>

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

**Re: First Quarter 2026 Monitoring and Sampling Report** (Ensolum, April 23, 2026)  
Chaco Plant Produced Water Spill  
Enterprise Field Services, LLC  
Chaco Plant, San Juan County, NM  
Unit Letter E, Sec 16 T26N R12W  
Incident Number: NAPP2202747264

Dear Ms. Maxwell:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, submits herein to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) an electronic copy of the above referenced report prepared by Ensolum, LLC (Ensolum). The report is associated with the Enterprise Chaco Plant produced water spill that was identified on January 6, 2022 from a frozen valve on a riser connected to the three-phase separator water tanks on the Chaco Plant in San Juan County, New Mexico (hereinafter referred to as "the Site").

In correspondence dated March 9, 2026, the NMOCD provided the following condition or comment, among others:

- **Transition from submitting annual monitoring and sampling reports to submitting quarterly monitoring and sampling reports. Operator may request to reduce sampling events based upon future results.**

The attached report summarizes groundwater monitoring and sampling (GWM&S) activities that occurred between January 1, 2026 and March 31, 2026 (First Quarter 2026), including laboratory analytical results.

Should you have any questions or need additional information regarding this Site, please contact Joseph Doyle via email at [jedoyle@eprod.com](mailto:jedoyle@eprod.com) or via phone at 713-381-4668.

Sincerely,

  
Joseph E. Doyle  
Scientist, Environmental

  
W. Tucker Jacobson  
Senior Manager, Environmental

ec: Ensolum – Mr. Dan Moir <[dmoir@ensolum.com](mailto:dmoir@ensolum.com)>



April 23, 2026

**Mr. Joseph Doyle**

Scientist, Environmental - Remediation  
Enterprise Field Services, LLC  
P.O. Box 4324  
Houston, Texas 77210-4324

**Re: First Quarter 2026 Groundwater Monitoring and Sampling Report**  
Chaco Plant Produced Water Spill (2022)  
San Juan County, New Mexico  
Incident ID No. NAPP2202747264

Mr. Doyle:

Ensolum, LLC (Ensolum) is pleased to present this *First Quarter 2026 Monitoring and Sampling Report* (Report) to Enterprise Field Services, LLC (Enterprise) to document quarterly groundwater monitoring and sampling related to the Chaco Plant Produced Water Spill (2022) site (Site) during the first quarter of 2026. The Site is located Unit E, Section 16, Township 26 North, Range 12 West, in San Juan County, New Mexico (**Figure 1**).

The Site is subject to regulatory oversight by the New Mexico Oil Conservation Division (NMOCD) under 19.15.29 (Part 29) and 19.15.30 (Part 30) of the New Mexico Administrative Code (NMAC), which establishes investigation and abatement requirements for oil and gas releases. Groundwater is evaluated using the New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards (GQSs) defined in 20.6.2 NMAC.

A *Stage 1 Abatement Plan*, dated September 17, 2025, was submitted to the NMOCD and was administratively approved on December 1, 2025. Final approval of the *Stage 1 Abatement Plan* was received on March 9, 2026, pursuant to 19.15.30.9(A) NMAC. The groundwater monitoring and sampling activities that are the subject of this report were performed in general accordance with the *Stage 1 Abatement Plan*.

## **SITE GROUNDWATER CLEANUP STANDARDS**

The following applicable NMWQCC GQS standards are presented in micrograms per liter ( $\mu\text{g/L}$ ) and milligrams per liter ( $\text{mg/L}$ ) for the specific contaminants of concern (COCs) at the Site.

- Benzene: 5.0  $\mu\text{g/L}$
- Toluene: 1,000  $\mu\text{g/L}$
- Ethylbenzene: 700  $\mu\text{g/L}$
- Total Xylenes: 620  $\mu\text{g/L}$
- Chloride: 250  $\text{mg/L}$
- Total Dissolved Solids: 1,000  $\text{mg/L}$

- pH: between 6 and 8

According to 19.15.30.9B, NMAC, *the responsible person shall abate groundwater pollution at a place of withdrawal for present or reasonably foreseeable future use to conform to the following standards:*

- (1) Toxic pollutants as defined in 20.6.2.7 NMAC shall not be present; and
- (2) The standards of 20.6.2.3103 NMAC shall be met.

It is generally recognized and accepted that not all releases contain all toxic pollutants, and that assessment and remediation of impacted environmental media should reasonably correspond with the expected components of the source material released. For the release at this Site, it is known the constituents are components of produced water, and to a lesser extent, condensate. Therefore, the primary COCs reasonably expected to be associated with this release included volatile organic compounds (VOCs), specifically benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride. Enterprise's Safety Data Sheet (SDS) is included as **Appendix A**.

Based on the release characteristics, SDS information, and results obtained to date, there is no reasonable probability that constituents not associated with the released material would be present as a result of this release. As such, the appropriate analytical parameters selected for investigation at this Site, as described in the *Stage 1 Abatement Plan*, were based on the known composition of the released material and were considered representative and sufficient to evaluate potential impacts. Analysis for the full 20.6.2.3103 constituent list was not considered appropriate or necessary to characterize site conditions at the time that the *Stage 1 Abatement Plan* was submitted and administratively approved.

While the Conditions of Approval (COAs) issued by the NMOCD on March 9, 2026, included analysis for the full constituent list in 20.6.2.3103 NMAC, those conditions could not be implemented during this reporting period due to logistical constraints associated with the remote Site location. As such, groundwater samples from the first quarter 2026 event were only analyzed for BTEX, chloride, TDS, and pH as presented in the *Stage 1 Abatement Plan*.

Notwithstanding the foregoing, constituents listed in 20.6.2.3103 NMAC will be incorporated in the second quarter 2026 monitoring and sampling event in order to conform with the COAs received on March 9, 2026.

The *Stage 1 Abatement Plan* also identified sulfate and total petroleum hydrocarbons (TPH) as analytes for groundwater sampling. These parameters were not included in the analytical program for this sampling event. However, the analytes listed in the *Stage 1 Abatement Plan* will be incorporated in the second quarter 2026 monitoring and sampling event, as appropriate.

## FIRST QUARTER 2026 GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Ensolum personnel conducted groundwater sampling activities at the Site on March 19, 2026. The monitoring well locations are depicted in **Figure 2**.

Static groundwater levels were measured from monitoring wells using a decontaminated oil/water interface probe. The interface probe was decontaminated with Alconox<sup>®</sup> soap and rinsed with distilled water prior to each measurement to prevent cross-contamination. Non-aqueous phase liquid (NAPL) was not encountered in any monitoring well at the Site.

Groundwater samples were collected using low-flow sampling techniques and were submitted for laboratory analysis. Purging was accomplished by removing stagnant groundwater from the

monitoring wells prior to collecting a sample. Field measurements of groundwater quality parameters, including temperature, pH, electrical conductivity, oxidation-reduction potential, and TDS were collected during the purging process. Following low flow purging, groundwater samples were placed directly into laboratory provided containers and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Containers were immediately sealed and packed on ice to preserve samples. Samples were submitted to Eurofins Environmental Analysis Laboratory and subsequently Eurofins Environment Testing in Albuquerque, New Mexico, for analysis of BTEX following United State Environmental Protection Agency (EPA) Method 8260B, TDS following Standard Method (SM) 2540C, and chloride following EPA Method 300.0. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature. Field measurements of pH were collected during low-flow purging. The last reading is included in **Table 3**.

Although the *Stage 1 Abatement Plan* indicated pH would be analyzed by a laboratory method, pH was measured in the field during low-flow purging in accordance with standard groundwater sampling practices. Because pH is an unstable parameter that can change during sample transport and holding, field measurements are generally considered more representative of in-situ conditions. Therefore, laboratory analysis of pH was not performed.

The *Stage 1 Abatement Plan* also identified sulfate and TPH as analytes; however, these parameters were not included in the analytical program for this sampling event. This deviation does not affect the evaluation of Site conditions, as the selected analytical suite adequately characterizes the contaminants of concern at the Site. These analytes will be incorporated in the second quarter 2026 monitoring and sampling event in order to conform with the approved *Stage 1 Abatement Plan*.

Measured depths to groundwater and calculated groundwater elevations are summarized in **Table 1**. A groundwater elevation map constructed from this data (**Figure 2**) indicated a consistent groundwater flow direction to the northeast as interpreted from groundwater elevation contours. The calculated hydraulic gradient was approximately 0.035 feet per foot (ft/ft) during the first quarter 2026 monitoring event.

During the March 2026 groundwater sampling event, BTEX and chloride concentrations were less than their respective NMWQCC GQSs in all monitoring wells. The pH readings in all monitoring wells were between the 6 and 8. TDS concentrations were greater than the NMWQCC GQS in all monitoring wells.

Analytical results are summarized in **Table 2** and **Table 3** and depicted in **Figure 2**, with complete laboratory analytical results provided in **Appendix B**.

## SUMMARY

While dissolved benzene has been historically detected within monitoring well MW-4 at concentrations greater than the NMWQCC GQS, those concentrations have been decreasing over time and during the first quarter 2026 groundwater sampling event, the dissolved benzene concentration at MW-4 was less than the NMWQCC GQS. This reduction appears to indicate natural attenuation is occurring and a potential source zone within the vadose zone is likely not present. This is further confirmed by the absence of impacts within soil associated with the newly installed monitoring wells.

Chloride concentrations in all five monitoring wells were less than the NMWQCC GQS, indicating chloride is not a COC for groundwater at this Site and that chloride should be removed from the groundwater sampling program with approval from the NMOCD.

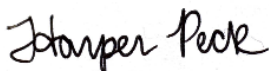
TDS concentrations observed in monitoring wells across the Site show minimal variability in upgradient, cross-gradient, downgradient, and center wells with consistent concentrations within the former plume (MW-4) and surrounding point-of-compliance (POC) wells, indicating groundwater beneath the Site is likely naturally high in TDS and is not related to the 2022 release. Furthermore, BTEX concentrations were not detected, and chloride concentrations were less than the NMWQCC GQSs in monitoring wells MW-5 through MW-8. Therefore, TDS is not a COC as it relates to the Site and should be removed from the groundwater sampling program with approval from the NMOCD.

Ensolum recommends conducting quarterly monitoring events until eight total quarters of groundwater data are in compliance with the NMWQCC GQSs for the Site-specific COCs, specifically BTEX. No additional investigations appear warranted and, since soil and groundwater impacts do not appear to be present at the Site at this time, a *Stage 2 Abatement Plan* does not appear to be warranted.

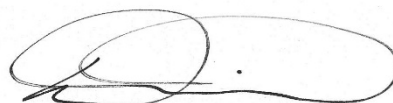
Ensolum appreciates the opportunity to provide these environmental services to Enterprise. Please contact either of the undersigned with any questions.

Sincerely,

**Ensolum, LLC**



Harper Peck  
Associate Geologist



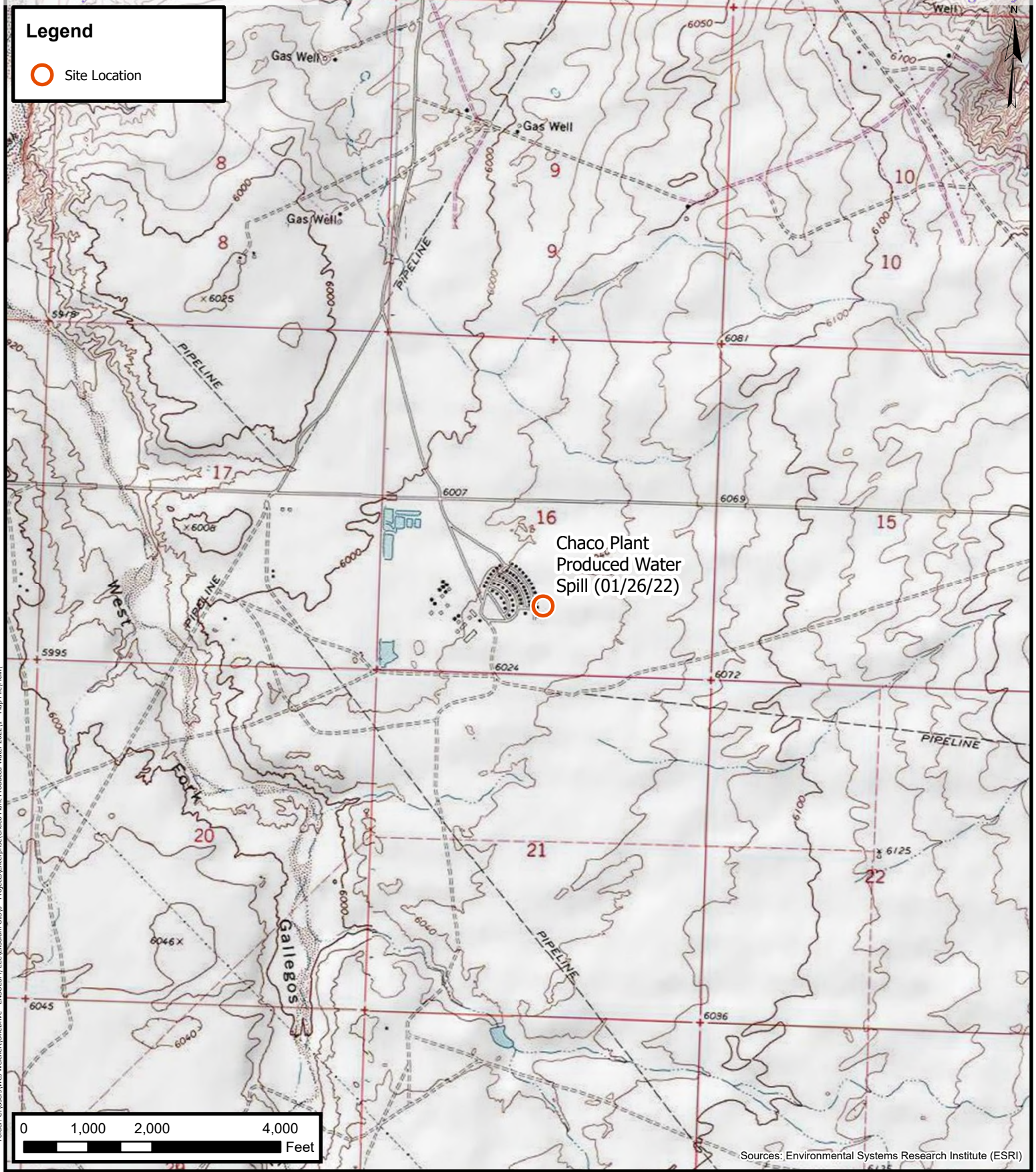
Daniel R. Moir, PG (licensed in WY & TX)  
Associate Principal, Geologist

**Attachments:**

Figure 1	Site Location Map
Figure 2	Groundwater Elevation and Analytical Results (March 2026)
Table 1	Groundwater Elevations
Table 2	Groundwater Analytical Summary – Volatile Organic Compounds
Table 3	Groundwater Analytical Summary – Inorganics
Appendix A	Condensate SDS
Appendix B	Laboratory Analytical Reports



FIGURES



Folder: C:\Users\Wes.Weichert\OneDrive - ENSOLUM, LLC\ensolum GIS\0 - Projects\Enterprise\Chaco Plant Produced Water 2021\1 - Map File\Main

0 1,000 2,000 4,000 Feet

Sources: Environmental Systems Research Institute (ESRI)

**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

## Site Location Map

Enterprise Field Services, LLC  
Chaco Plant Produced Water Spill (2022)  
36.484021, -108.117050  
San Juan County, New Mexico

# FIGURE

# 1



### Legend

- Monitoring Well Location
- Groundwater Elevation Contours (March 2026)
- Groundwater Flow Direction

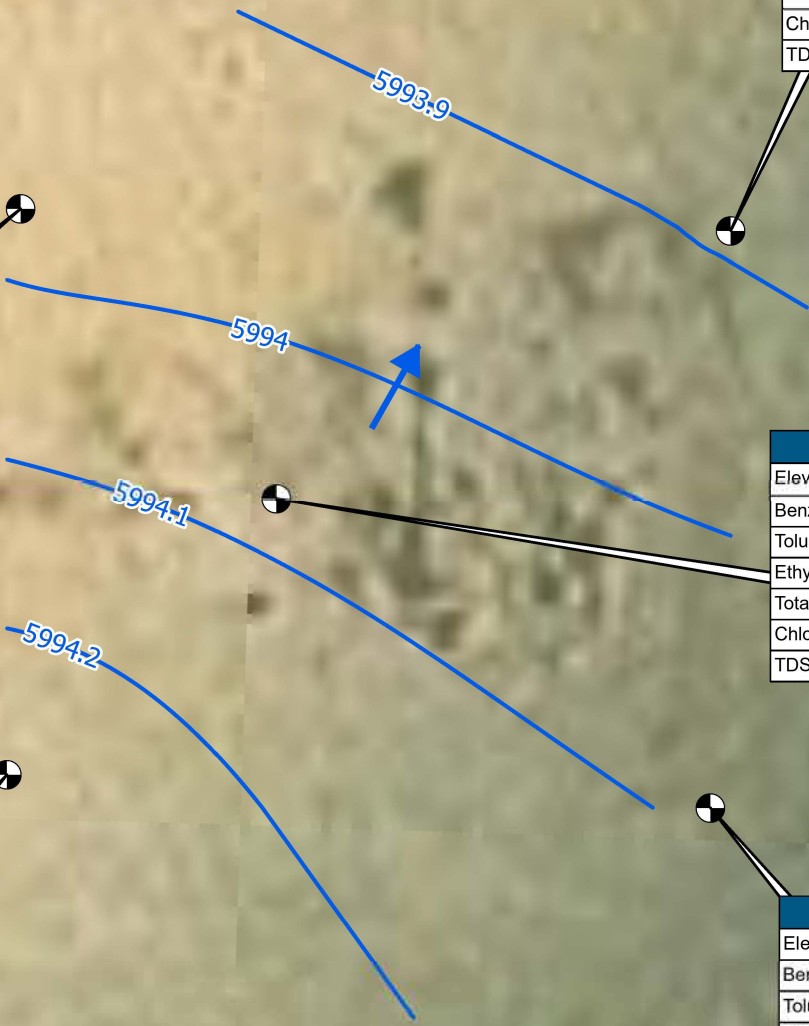
MW-5	
Elevation	5,993.96'
Benzene	<1.0
Toluene	<1.0
Ethylbenzene	<1.0
Total Xylenes	<1.5
Chloride	18
TDS	4,900

MW-6	
Elevation	5,993.89'
Benzene	<1.0
Toluene	<1.0
Ethylbenzene	<1.0
Total Xylenes	<1.5
Chloride	39
TDS	4700

MW-4	
Elevation	5,994.07'
Benzene	<1.0
Toluene	<1.0
Ethylbenzene	<1.0
Total Xylenes	<1.5
Chloride	21
TDS	4,700 E

MW-8	
Elevation	5,994.29'
Benzene	<1.0
Toluene	<1.0
Ethylbenzene	<1.0
Total Xylenes	<1.5
Chloride	110
TDS	4,200

MW-7	
Elevation	5994.09'
Benzene	<1.0
Toluene	<1.0
Ethylbenzene	1.0
Total Xylenes	<1.5
Chloride	66
TDS	4,400



## Groundwater Elevation and Analytical Results

Enterprise Field Services, LLC  
 Chaco Plant Produced Water Spill (2022)  
 36.484021, -108.117050  
 San Juan County, New Mexico

FIGURE  
2



TABLES



**TABLE 1**  
**GROUNDWATER ELEVATION**  
 Chaco Plant Produced Water Spill  
 Enterprise Field Services LLC  
 San Juan County, New Mexico

Sample Designation	Date	*Relative Top of Casing Elevation (feet)	Total Well Depth (feet btoc)	Screen Interval (feet btoc)	Depth to Groundwater (feet btoc)	Depth to Product (feet btoc)	*Relative Groundwater Elevation (feet)
<b>MW-4</b>	07/07/2022	6039.00	50.03	35.03-50.03	48.59	No Product	5990.41
	09/12/2022				NM	NM	NM
	01/19/2023				NM	NM	NM
	02/07/2023				NM	NM	NM
	08/23/2023				NM	NM	NM
	12/30/2024				45.50	No Product	5993.50
	04/17/2025				45.13	No Product	5993.87
	10/23/2025				44.96	No Product	5994.04
	3/19/2026				44.93	No Product	5994.07
<b>MW-5</b>	03/19/2026	6041.68	55.00	55-40	47.72	No Product	5993.96
<b>MW-6</b>	03/19/2026	6042.03	55.00	55-40	48.14	No Product	5993.89
<b>MW-7</b>	03/19/2026	6042.53	55.00	55-40	48.44	No Product	5994.09
<b>MW-8</b>	03/19/2026	6042.07	55.00	55-40	47.78	No Product	5994.29

**Notes:**

btoc - below top of casing

NM - no measurement data available

\*Elevation of top of casing is based on Google Earth elevation data. This is relative and not exact to an elevation in feet above mean sea level



**TABLE 2**  
**GROUNDWATER ANALYTICAL SUMMARY - VOLATILE ORGANIC COMPOUNDS**  
 Chaco Plant Produced Water Spill  
 Enterprise Field Services LLC  
 San Juan County, New Mexico

Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	1,2,4- Trimethylbenzene <sup>1,2</sup> (µg/L)	1,3,5- Trimethylbenzene <sup>1,2</sup> (µg/L)	Acetone <sup>1,2</sup> (µg/L)	2-Butanone <sup>1,2</sup> (µg/L)	Isopropylbenzene <sup>1,2</sup> (µg/L)	n-Propylbenzene <sup>1,2</sup> (µg/L)
<b>NMWQCC GQS</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>
<b>Subsurface Water Sample Collected from the Monitoring Well</b>											
MW-4	07/07/2022	<b>216</b>	838	48.4	400	<50.0	<10.0	526	453	<10.0	<10.0
	09/12/2022	<b>300</b>	610	47	390	19	11	38	34	4.8	5.1
	01/19/2023	<b>42</b>	110	4.6	34	<2.0	<2.0	<20	<20	<2.0	<2.0
	02/07/2023	<b>190</b>	190	<2.0	35	<1.0	<1.0	33	28	<2.0	<2.0
	08/23/2023	<b>80</b>	100	<2.0	22	<2.0	<2.0	<20	<20	<2.0	<2.0
	12/30/2024	<b>5.6</b>	2.7	<1.0	<2.0	NA	NA	NA	NA	NA	NA
	04/17/2025	<b>5.9</b>	2.7	<1.0	<1.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0
	10/23/2025	3.8	1.6	<1.0	<1.0	NA	NA	NA	NA	NA	NA
03/19/2026	<1.0	<1.0	<1.0	<1.5	NA	NA	NA	NA	NA	NA	
MW-5	03/19/2026	<1.0	<1.0	<1.0	<1.5	NA	NA	NA	NA	NA	NA
MW-6	03/19/2026	<1.0	<1.0	<1.0	<1.5	NA	NA	NA	NA	NA	NA
MW-7	03/19/2026	<1.0	1.0	<1.0	<1.5	NA	NA	NA	NA	NA	NA
MW-8	03/19/2026	<1.0	<1.0	<1.0	<1.5	NA	NA	NA	NA	NA	NA

Notes:

Concentrations in **bold** and yellow exceed the applicable NMWQCC GQS

<sup>1</sup> = Constituent is not identified as "toxic pollutant" under 20.6.2 New Mexico Administrative Code (NMAC).

<sup>2</sup> = Constituent is not identified as a priority pollutant under the Federal Clean Water Act (CWA).

µg/L = microgram per liter

NA = Not Analyzed

NE = Not Established

NMWQCC GQS: New Mexico Water Quality Control Commission Groundwater Quality Standard

<1.0 = The numeral (in this case "1.0") identifies the laboratory reporting limit (RL) or practical quantitation limit (PQL).



**TABLE 3**  
**GROUNDWATER ANALYTICAL SUMMARY - INORGANICS**  
 Chaco Plant Produced Water Spill  
 Enterprise Field Services LLC  
 San Juan County, New Mexico

Sample I.D.	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Phosphorus (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Conductivity (µS/cm)	Total Alkalinity (mg/L Ca)	pH
<b>NMWQCC GQS</b>		1.6	250	600	10	1	NE	NE	NE	NE	NE	1,000	NE	NE	6 - 8
<b>Subsurface Water Sample Collected from the Monitoring Well</b>															
MW-4	07/07/2022	<5.00	63.7	<b>3,980</b>	<5.00	<5.00	<5.00	538	80.9	23	1,080	<b>5,060</b>	5,730	639	NA
	09/12/2022	NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/19/2023	NA	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/08/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>4,740</b>	NA	NA	NA
	08/23/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>4,800</b>	NA	NA	NA
	04/17/2025	NA	NA	<b>3,000</b>	NA	NA	NA	NA	NA	NA	NA	<b>4,900</b>	NA	NA	6.36
	10/23/2025	NA	NA	<b>2,800</b>	NA	NA	NA	NA	NA	NA	NA	<b>4,800</b>	NA	NA	6.58
	03/19/2026	NA	21	NA	NA	NA	NA	NA	NA	NA	NA	<b>4,700 E</b>	NA	NA	6.71
MW-5	03/19/2026	NA	18	NA	NA	NA	NA	NA	NA	NA	NA	<b>4,900</b>	NA	NA	6.82
MW-6	03/19/2026	NA	39	NA	NA	NA	NA	NA	NA	NA	NA	<b>4,700</b>	NA	NA	6.74
MW-7	03/19/2026	NA	66	NA	NA	NA	NA	NA	NA	NA	NA	<b>4,400</b>	NA	NA	6.62
MW-8	03/19/2026	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	<b>4,200</b>	NA	NA	6.72

Notes:

2

Concentrations in **bold** and yellow exceed the applicable NMWQCC GQS.

mg/L = milligram per liter

µS/cm = microsiemens per centimeter

NA = Not Analyzed

NE = Not Established

NMWQCC GQS: New Mexico Water Quality Control Commission Groundwater Quality Standard

<1.0 = The numeral (in this case "1.0") identifies the laboratory reporting limit (RL) or practical quantitation limit (PQL).

E - indicates the result exceeded the calibration range



APPENDIX A  
Condensate SDS

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## Condensate

### Safety Data Sheet

This SDS has been updated to comply with the OSHA 2025 Final Hazard Communication Rule, including alignment with GHS Revision 7. Revision date: 11/25/2025, Supersedes: 2/17/2022, Revision: 3, SDS Number: EP201-018

## PRODUCT

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Condensate

**GENERAL USE:** Refinery Feedstock

**CHEMICAL FAMILY:** Petroleum Hydrocarbon

#### DISTRIBUTOR

Enterprise Products

1100 Louisiana

Houston, TX 77002

Corporate Contact: 888-806-3794

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC:1-800-424-9300

Emergency Telephone Number(s) may be used for any type of emergency response, hazmat, regulatory responding, or DOT information regarding this product.

**COMMENTS:** There are no restrictions in regards to the Emergency Telephone Number(s) provided.

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

DANGER

WARNING

Flammable gas - Category 1

Gas under pressure (liquefied/compressed)

Flammable liquid - Category 2

Flammable liquid - Category 3

Aspiration hazard - Category 1

Skin irritation - Category 2

Eye irritation - Category 2

Acute toxicity (inhalation) - Category 2

Specific Target Organ Toxicity – Single Exposure - Category 3 (narcotic effects; respiratory irritation)

Specific Target Organ Toxicity – Repeat Exposure - Category 1

Germ cell mutagenicity - Category 1B

Carcinogenicity - Category 1A

Reproductive toxicity - Category 2

Hazardous to the aquatic environment, Acute - Category 1

Hazardous to the aquatic environment, Chronic - Category 1



## Condensate

### Safety Data Sheet

This SDS has been updated to comply with the OSHA 2025 Final Hazard Communication Rule, including alignment with GHS Revision 7. Revision date: 11/25/2025, Supersedes: 2/17/2022, Revision: 3, SDS Number: EP201-018

#### GHS LABELS



GHS02



GHS04



GHS07



GHS08



GHS09

#### HAZARD STATEMENTS :

H220: Extremely flammable gas.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H280: Contains gas under pressure; may explode if heated.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H340: May cause genetic defects.

H350: May cause cancer.

H361: Suspected of damaging the unborn child.

H372: Causes damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS:

Prevention

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use non-sparking tools.



## Condensate

### Safety Data Sheet

This SDS has been updated to comply with the OSHA 2025 Final Hazard Communication Rule, including alignment with GHS Revision 7. Revision date: 11/25/2025, Supersedes: 2/17/2022, Revision: 3, SDS Number: EP201-018

- P243: Take action to prevent static discharges.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash hands and exposed skin thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331: Do NOT induce vomiting.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P310: Immediately call a POISON CENTER/doctor.
- P312: Call a POISON CENTER/doctor if you feel unwell.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P308+P313: IF exposed or concerned: Get medical \ advice/attention.
- P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
- P381: In case of leakage, eliminate all ignition sources if safe to do so.
- P391: Collect spillage.
- P370+P378: In case of fire: Use alcohol-resistant foam, dry chemical, carbon dioxide, or water fog.

#### Storage

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P410+P403: Protect from sunlight. Store in a well-ventilated place.
- P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

#### Disposal

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.



## Condensate

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## EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear, colorless to amber or dark brown liquid.

**IMMEDIATE CONCERNS:** Aspiration into lungs may occur directly or following ingestion. This can cause chemical pneumonitis, which may be fatal. May cause irritation of respiratory tract. Skin defatting may occur and cause drying and reddening of skin. Please read entire contents of Section 2 of this SDS for details.

## POTENTIAL HEALTH EFFECTS

**EYES:** Eye contact may cause slight to moderate irritation. Splashing of liquid into the eyes will cause stinging and pain. Vapors may cause irritation and inflammation (conjunctivitis), causing redness and tearing. Direct contact with liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.

**SKIN:** Contact may cause moderate irritation of the skin and mucous membranes. Prolonged or repeated contact with the skin may cause defatting of the skin, leading to redness, itching, inflammation, cracking, dermatitis (rash) and possible secondary infection. Contact with liquid or cold vapor can cause frostbite.

**SKIN ABSORPTION:** This material is not expected to be absorbed through the skin but exposure may cause frostbite. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed. Short term contact may result in tissue destruction and severe burns. High pressure skin injections are serious medical emergencies. The appearance of injury may be delayed for a few hours but may cause tissue to be swollen, discolored and extremely painful; permanent damage or death may result without adequate medical treatment.

**INGESTION:** Aspiration hazard if swallowed. Can enter lungs and cause damage and death. Ingestion may cause gastrointestinal disturbances, such as irritation, nausea, vomiting, diarrhea, and central nervous system effects similar to alcohol intoxication. Other effects include gastritis, headache, drowsiness, loss of consciousness, convulsions, cyanosis, pneumonitis, pulmonary edema and capillary hemorrhaging of the lung and internal organs.

**INHALATION:** Inhalation may be irritating to mucous membrane and respiratory tract. Vapors may cause nose and throat irritation. May result in dizziness, drowsiness and headache. Asphyxiation hazard. High concentrations in the immediate area can displace oxygen, causing the feeling of suffocation and CNS depression. Symptoms may include headache, excitation, euphoria, incoordination, blurred vision, lightheadedness, fatigue, loss of consciousness and possible death from respiratory failure.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE

**ACUTE TOXICITY:** May be fatal if swallowed. Simple asphyxiant. Harmful if inhaled or absorbed through skin. Causes skin, eye, and upper respiratory tract irritation. Can cause central nervous system depression. Can cause frostbite or freeze burns.

**CHRONIC EFFECTS:** Inhalation may produce mild intoxication, drowsiness, or loss of coordination. High concentrations produce intoxication followed by loss of consciousness, asphyxiation and death. May cause skin and eye irritation. May affect the respiratory and central nervous system.

**CARCINOGENICITY:** OSHA reports an 8-hour TWA of 1ppm. The NTP and IARC list benzene as a "human carcinogen."

**MUTAGENICITY:** Not Established.

## REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS:** Not Established.

**TERATOGENIC EFFECTS:** Not Established.



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**MEDICAL CONDITIONS AGGRAVATED:** Persons with pre-existing skin disorders, respiratory disorders or impaired liver, kidney or heart function may be more susceptible to the effects of this product. Contact with full strength or even dilute formulations of this product above or at the TLV may aggravate pre-existing respiratory disorders in blood forming organs, leading to anemia, which may further degrade to leukemia.

Butane has been shown to cause mild cardiac sensitization in laboratory test animals.

**ROUTES OF ENTRY:** Inhalation, ingestion, skin contact.

**TARGET ORGAN STATEMENT:** May cause damage to lungs, skin, eyes, and central nervous system.

**CANCER STATEMENT:** Middle distillates have caused cancer and kidney damage in laboratory animals.

**SENSITIZATION:** Not Established.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
Natural Gas Condensates	90 - 100	68919-39-1
Propane	20 - 60	74-98-6
Butane	10 - 40	106-97-8
Ethane	1 - 60	74-84-0
Pentane	5 - 25	109-66-0
Heptane	1 - 10	142-82-5
n-Hexane	1 - 10	110-54-3
Octane	1 - 10	111-65-9
Cyclohexane	0.1 - 5	110-82-7
Ethyl Benzene	0.1 - 5	100-41-4
Toluene	0.1 - 5	108-88-3
Xylene	0.1 - 5	1330-20-7
Hydrogen Sulfide	0.1 - 2	7783-06-4
Benzene	< 0.1 - 2	71-43-2
Natural Gas	may contain	8006-14-2

### 4. FIRST AID MEASURES

**EYES:** Contact with liquid or vapor can cause frostbite. Immediately flush gently with large amounts of lukewarm water, holding eyelids open, for at least 20 minutes. Seek medical assistance immediately.

**SKIN:** In case of frostbite, immediately warm affected area with lukewarm water not to exceed 40°C (105°F) for at least 20 minutes. Immediately remove contaminated clothing and wash affected skin thoroughly with soap and water. Discard contaminated leather shoes/gloves. Obtain medical assistance.



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**INGESTION:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Have exposed individual rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Obtain medical assistance immediately and treat as directed by a medical professional.

**INHALATION:** Move victim to fresh air. Call 911, emergency medical service, or Emergency Phone Numbers(s) provided in Section 1 of this SDS. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

**ANTIDOTES:** Not Established.

#### NOTES TO PHYSICIAN:

**CLINICAL TESTING & MEDICAL MONITORING FOR DELAYED EFFECTS** - Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias (irregular beating) in persons exposed to this material.

**ADDITIONAL INFORMATION:** Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First Aid Responders are advised to wear personal protective equipment as found in Section 8 of this SDS.

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## 5. FIRE FIGHTING MEASURES

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**FLASH POINT:** -112°C (-170°F) (Estimated).

**FLAMMABLE LIMITS:** 1.05 to 12.5

**NOTES:** Flammable Limits given as percentage volume in air at normal atmospheric temperature and pressure.

**AUTOIGNITION TEMPERATURE:** ~ 249°C (480°F)

**NOTES:** Based upon Methane.

**FLAMMABLE CLASS:** Class B.

**DECOMPOSITION TEMPERATURE:** Not Established.

#### EXTINGUISHING MEDIA:

**SMALL FIRE** - Class B fire extinguisher, carbon dioxide, multipurpose dry chemical, water fog or alcoholresistant foam.

**LARGE FIRE** - Water fog or alcohol-resistant foam.

**HAZARDOUS COMBUSTION PRODUCTS:** Any combustion, including incomplete combustion, may form carbon monoxide and carbon dioxide. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

**INAPPROPRIATE EXTINGUISHING MEDIA:** Do not use water jet.

#### FIRE FIGHTING PROCEDURES:



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**PROTECTIVE ACTIONS TO TAKE DURING FIRE FIGHTING – DO NOT** extinguish a leaking gas flame unless the leak can be stopped. In many cases it will be preferable to allow continued burning. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material. Do not get water inside containers. Use water spray or fog; do not use straight streams. Note: Use of water spray when fighting fire may be inefficient or cause a chemical reaction. Persons involved in firefighting response involving this product and its containers/packaging should refer to Section 8 for the proper selection of exposure controls and personal protective equipment.

**FIRE FIGHTING EQUIPMENT: PRECAUTIONS FOR FIRE INVOLVING TANKS OR CAR/TRAILER LOADS**

Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. Isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

**FIRE EXPLOSION: HIGHLY FLAMMABLE.** Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Many liquids are lighter than water. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated.

**SENSITIVE TO STATIC DISCHARGE:** Flowing gasoline can be ignited by self-generated static electricity; containers should be grounded and bonded.

**SPECIFIC HAZARDS THAT MAY ARISE FROM THE PRODUCT -** Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

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## 6. ACCIDENTAL RELEASE MEASURES

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**SMALL SPILL:** For emergency information and procedures to follow in the case of an accidental release, call the Emergency Telephone Number(s) listed in Section 1 of this SDS. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Dike far ahead of liquid spill for later disposal. Never discharge releases directly into sewers or surface waters. Remove any ignition sources and protect from ignition. Water spray may reduce vapor; but may not prevent ignition in closed spaces. A vapor suppressing foam may be used to reduce vapors. Provide sufficient ventilation in the affected area(s) and wear appropriate personal protective equipment as indicated in Section 8 of this SDS when handling spill material.

**LARGE SPILL:** Use similar response procedures as indicated under Small Spill. Consider initial downwind evacuation for at least 300 meters (1000 feet).

**MATERIALS & METHODS (EQUIPMENT & TECHNIQUES) FOR CONTAINMENT & CLEANUP:**

Call Emergency Telephone Number(s) provided in Section 1 of this SDS. As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Toxic hydrogen sulfide may be present during a release.



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**RELEASE NOTES: ENVIRONMENTAL PRECAUTIONS** - Avoid contact of spilled material with soil and prevent runoff entering surface waterways. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**SPECIAL PROTECTIVE EQUIPMENT: EMERGENCY & NON-EMERGENCY RESPONDERS** - Refer to Section 8 for appropriate exposure controls and personal protective equipment (PPE).

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Handle in accordance with good industrial hygiene and safety practices. These practices include but are not limited to avoiding unnecessary exposure and prompt removal of material from eyes, skin, and clothing. If needed, take first aid actions as indicated in Section 4. Never use as a cleaning solvent or degreaser. Use explosion-proof electrical equipment. No smoking should be allowed in area of use.

**HANDLING:** Keep away from heat and flames. Keep away from oxidizing agents and dehydrating agents as contact may cause sudden reaction and fire.

**STORAGE:** Keep in airtight container away from all heat sources. Store in a segregated and approved area. Store in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Keep container in a well-ventilated area. Store away from incompatible materials. Store in the original container or an approved alternative made from compatible material. Storage containers should be grounded and bonded. Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Do not store in unlabeled containers. Ample fire water supply should be available. A fixed sprinkler/deluge system is recommended. Treat empty containers in a similar fashion as residual product may exist. Use appropriate containment to avoid environmental contamination.

**STORAGE TEMPERATURE:** Store containers in a room with ambient temperature.

**SPECIAL SENSITIVITY: HOW TO CONTROL THE EFFECTS OF WEATHER CONDITIONS, SUNLIGHT, HUMIDITY & VIBRATION** - Not Established.

**ELECTROSTATIC ACCUMULATION HAZARD:** To minimize the hazard of static electricity during transfer operations, bonding and grounding may be necessary, but may not by themselves be sufficient. For more information, refer to OSHA Standard 29 CFR 1910.106; National Fire Protection Standard (NFPA) 77 - "Recommended Practice on Static Electricity;" and/or the American Petroleum Institute (API) Recommended Practice 2003 - "Protection Against Ignitions Arising Out of Static, Lighting and Stray Currents."

**HOW TO AVOID EXPLOSIVE ATMOSPHERES, CORROSIVE CONDITIONS, FLAMMABILITY HAZARDS, EVAPORATIVE CONDITIONS & POTENTIAL IGNITION SOURCES** - Not Established

## 8. EXPOSURE CONTROLS / PERSONAL

### PROTECTION EXPOSURE GUIDELINES



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### OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

Chemical Name		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Natural Gas Condensates	TWA	N/E	N/E	N/E	N/E
	STEL	N/E	N/E	N/E	N/E
Propane	TWA	1000	1800	1000	N/E
	STEL	N/E	N/E	N/E	N/E
Butane	TWA	N/E	N/E	1000	N/E
	STEL	N/E	N/E	N/E	N/E
Ethane	TWA	N/E	N/E	1000	N/E
	STEL	N/E	N/E	N/E	N/E
Pentane	TWA	1000	2950	600	N/E
	STEL	N/E	N/E	N/E	N/E
Heptane	TWA	500	2000	400	N/E
	STEL	N/E	N/E	500	N/E
n-Hexane	TWA	500	1800	50	180
	STEL	N/E	N/E	N/E	N/E
Octane	TWA	500	2350	300	1400
	STEL	N/E	N/E	N/E	N/E
Cyclohexane	TWA	300	1050	100	350
	STEL	N/E	N/E	N/E	N/E
Ethyl Benzene	TWA	100	435	100	434
	STEL	N/E	N/E	125	543
Toluene	TWA	200	N/E	50	188
	STEL	300	N/E	N/E	N/E



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Xylene	<b>TWA</b>	100	435	100	434
	<b>STEL</b>	N/E	N/E	150	651
Hydrogen Sulfide	<b>TWA</b>	N/E	N/E	1	5
	<b>STEL</b>	20	N/E	N/E	N/E
Benzene	<b>TWA</b>	1	N/E	0.02	N/E
	<b>STEL</b>	5	N/E	N/E	N/E

**ENGINEERING CONTROLS:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Employees should be provided with and required to use splash-proof safety goggles and splash shields where there is any possibility of product coming in contact with eyes. Ensure that eye wash station is operable and nearby.

**SKIN:** Any impervious gloves including nitrile, plastic or neoprene coated canvas gloves.

**RESPIRATORY:** Depending on airborne concentration a full-face supplied air respirator is recommended, because air purifying respirators cannot provide adequate protection.

**PROTECTIVE CLOTHING:** Long sleeve shirt and long pants or coveralls. Consider wearing butyl rubber apron or outerwear where splashing may occur. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

**WORK HYGIENIC PRACTICES:** Consider the potential hazards of this material, applicable exposure limits, job activities, environmental working conditions, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). The user should read and understand all manufacturer instructions and limitations supplied with the personal protection equipment before use.

**OTHER USE PRECAUTIONS: THERMAL, FIRE & CHEMICAL HAZARDS-** Refer to Prevention Phrases listed under Precautionary Statement(s) in Section 2 of this SDS.

#### PPE PICTOGRAMS:



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Hydrocarbon odor. If present hydrogen sulfide has a rotten egg odor, but should not be used as an indicator of a hazardous condition because it can overwhelm and deaden the sense of smell.



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**APPEARANCE:** Clear, colorless liquid to amber or dark brown

liquid. **pH:** Not Established.

**PERCENT VOLATILE:** 100

**VAPOR PRESSURE:** 7.85 to 43.3 mmHg at 25°C (77°F)

**VAPOR DENSITY:** > 1 Air = 1.

**BOILING POINT:** ~ -57°C (-70°F) to 200°C (437°F)

**MELTING POINT:** -86°C (-122°F)

**FLASH POINT:** -112°C (-170°F) (Estimated).

**SOLUBILITY IN WATER:** Negligible.

**EVAPORATION RATE:** Initially high when fresh but diminishes with progressive weathering (n-BUTYL ACETATE = 1)

**DENSITY:** Not Established.

**SPECIFIC GRAVITY:** 0.60 to 0.65 at 15.56°C (60°F)

**NOTES:** H<sub>2</sub>O = 1

**COEFF. OIL/WATER:** Not Established.

**ODOR THRESHOLD:** Not Established.

**FLAMMABILITY:** Refer to Section 2 and Section 5 of this SDS for classification and flammability characteristics.

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## 10. STABILITY AND REACTIVITY

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**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** This product is anticipated to be stable under normal ambient storage and handling conditions of temperature and pressure.

**POLYMERIZATION:** This product is not anticipated to cause hazardous reactions or polymerizations under normal ambient storage and handling conditions of temperature and pressure.

**CONDITIONS TO AVOID:** Avoid contact with incompatible materials such as heat, open flame, other sources of ignition and oxidizing materials. Avoid exposure to heat and air. Hot containers may explode.

**POSSIBILITY OF HAZARDOUS REACTIONS:** This product may be chemically reactive under certain circumstances. Avoid adverse conditions and incompatible materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** This product may produce carbon monoxide, carbon dioxide, and other noncombustible hydrocarbons (smoke). Hydrogen sulfide gas, which is highly toxic, may also be released.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents.

**STABILIZERS:** Not Established.



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## 11. TOXICOLOGIC DATA

### ACUTE

Chemical Name	Oral LD <sub>50</sub> (rat)	Dermal LD <sub>50</sub> (rabbit)	Inhalation LC <sub>50</sub> (rat)
Natural Gas Condensates	14000 mg/kg	> 3750 mg/kg	> 5.2 mg/L (4 hours)
Propane	N/E	N/E	658 mg/L (4 hours)
Butane	N/E	N/E	658g/m <sup>3</sup>
Ethane	N/E	N/E	800000 ppm (15 min)
Pentane	N/E	N/E	364 g/m <sup>3</sup>
Heptane	N/E	N/E	103 g/m <sup>3</sup>
n-Hexane	25 g/kg	N/E	48000 ppm (4 hours)
Octane	N/E	N/E	25260 ppm (4 hours)
Cyclohexane	12,705 mg/kg	N/E	13.9 mg/L (4 hours)
Ethyl Benzene	≤ 3500 mg/kg	≤ 3500 mg/kg	≤ 55000
Toluene	636 mg/kg	14100 ug/kg	49 g/m <sup>3</sup>
Xylene	4300 mg/kg	< 1700 mg/kg	5000 ppm (4 hours)
Hydrogen Sulfide	N/E	N/E	444 ppm
Benzene	930 mg/kg	> 9400 ug/kg	10000 ppm (7 hours)
Natural Gas	N/E	N/E	> 800000 ppm (15 min)

**EYES:** Not Established.

**DERMAL LD50:** Toxicological data does not exist for this mixture. **SKIN ABSORPTION:** Toxicological data does not exist for this mixture. **ORAL LD50:** Toxicological data does not exist for this mixture.

**INHALATION LC50:** Toxicological data does not exist for this mixture.

**ACUTE TOXICITY & HEALTH EFFECTS** - This product is nontoxic and is a simple asphyxiant; however it does have slight anesthetic properties and higher concentrations may cause dizziness. Refer to Section 2 of this SDS for additional hazards identification.

### CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status



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Ethyl Benzene		2B	
Toluene		3	
Xylene		3	
Benzene	1	1	Carcinogen

#### ADDITIONAL NOTES:

**Benzene** - Caused cancer (leukemia), damage to the blood-producing system and serious blood disorders from prolonged, high exposure based on human epidemiology studies. Caused genetic effects and effects on the immune system in laboratory animal and some human studies. Caused toxicity to the fetus in laboratory animal studies.

**Ethylbenzene** - Caused cancer in laboratory animal studies. The relevance of these findings to humans is uncertain.

**n-Hexane** - Prolonged and/or repeated exposures to n-Hexane can cause progressive and potentially irreversible damage to the peripheral nervous system. Simultaneous exposure to methyl ethyl ketone (MEK) or methyl isobutyl ketone (MIBK) and n-Hexane can potentiate the risk of adverse effects from n-Hexane on the peripheral nervous system. n-Hexane has been shown to cause testicular damage at high doses in male rats. The relevance of this effect for humans is unknown.

**SENSITIZATION:** Not Established.

**REPRODUCTIVE EFFECTS:** Not Established.

#### TARGET ORGANS:

**SINGLE EXPOSURE EFFECTS** - Exposure may have adverse health effects.

**REPEATED DOSE EFFECTS** - Repeated exposure may cause frostbite injuries, respiratory, and central nervous system effects, depending on routes of exposure.

**MUTAGENICITY:** Not Established.

**INTERACTIVE EFFECTS:** Not Established.

## 12. ECOLOGICAL DATA

**ENVIRONMENTAL DATA: MOBILITY IN SOIL POTENTIAL** – Not Established.

#### ECOTOXICOLOGICAL INFORMATION: TERRESTRIAL/MICROORGANISM TOXICITY –

**ACUTE:** Ecological data does not exist for this mixture.

**CHRONIC:** Ecological data does not exist for this mixture.

**BIOACCUMULATION/ACCUMULATION:** Ecological data does not exist for this mixture. **AQUATIC TOXICITY:**

**ACUTE** - Ecological data does not exist for this mixture.



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**CHRONIC** - Ecological data does not exist for this mixture.

**CHEMICAL FATE INFORMATION: PERSISTENCE & DEGRADABILITY** – Not Established.

**GENERAL COMMENTS:** Any other adverse environmental effects, such as environmental fate (exposure), ozone depletion potential, photochemical ozone creation potential, endocrine disrupting potential, and global warming potential are indicated in this section if data exists. Data from laboratory studies and from scientific literature is noted in this section if available. Otherwise, data has not been established.

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### 13. DISPOSAL CONSIDERATIONS

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**DISPOSAL METHOD:** It is recommended that this product, in any form, be incinerated in a suitable combustion chamber for disposal. If possible, use a flare. Allow material to evaporate or disperse leaks in air, ensuring gas is diluted below lower flammable limit. Waste mixtures containing these gases should not be allowed to enter drains and sewers where there is danger of their vapors being ignited. Product when discarded or disposed of is a hazardous waste according to Federal regulations (40 CFR 261) due to its ignitability. Empty containers should be disposed of in a similar fashion due to presence of product residue. Follow applicable Federal, state, and local regulations.

**PRODUCT DISPOSAL:** Persons conducting disposal of this product and its containers/packaging should refer to Section 8 for the proper selection of exposure controls and personal protective equipment.

**EMPTY CONTAINER:** Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

**PHYSICAL & CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS:** Not Established.

**COMMENTS:** Dispose of material in accordance with national, state, regional, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices for the product, in any form, and its containers/packaging.

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### 14. TRANSPORT INFORMATION

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#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Petroleum distillates, n.o.s.

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 1268 PACKING

**GROUP:** I



# Condensate

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**NAERG:** 128

**LABEL:** 3: Flammable liquid.

### 15. REGULATORY

#### INFORMATION UNITED STATES DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Fire Hazard. Immediate (Acute) Health Hazard. Delayed (Chronic) Health hazard.

**FIRE:** Yes

**PRESSURE GENERATING:** No

**REACTIVITY:** No

**ACUTE:** Yes

**CHRONIC:** Yes

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Vol. %	CAS
n-Hexane	1 - 10	110-54-3
Cyclohexane	0.1 – 5	110-82-7
Ethyl Benzene	0.1 – 5	100-41-4
Toluene	0.1 – 5	108-88-3
Xylene	0.1 – 5	1330-20-7
Hydrogen Sulfide	0.1 – 2	7783-06-4
Benzene	< 0.1 – 5	71-43-2

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Vol. %	CERCLA RQ
---------------	--------	-----------



## Condensate

### Safety Data Sheet

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n-Hexane	1 - 10	5,000
Cyclohexane	0.1 – 5	1,000
Ethyl Benzene	0.1 – 5	1,000
Toluene	0.1 – 5	1,000
Xylene	0.1 – 5	100
Hydrogen Sulfide	0.1 – 2	100
Benzene	< 0.1 – 5	10

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Natural Gas Condensates	68919-39-1
Propane	74-98-6
Butane	106-97-8
Ethane	74-84-0
Pentane	109-66-0
Heptane	142-82-5
n-Hexane	110-54-3
Octane	111-65-9
Cyclohexane	110-82-7
Ethyl Benzene	100-41-4
Toluene	108-88-3
Xylene	1330-20-7
Hydrogen Sulfide	7783-06-4
Benzene	71-43-2

#### CLEAN AIR ACT

Chemical Name	Vol. %	CAS
Propane	20 - 60	74-98-6
Butane	10 - 40	106-97-8



# Condensate

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Ethane	1 - 60	74-84-0
Pentane	5 - 25	109-66-0
Hydrogen Sulfide	0.1 – 2	7783-06-4

### STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Propane	Delaware Air Quality Management Massachusetts Hazardous Substance Minnesota Hazardous Substance New Jersey RTK Hazardous Substance Pennsylvania Hazardous Substance Washington PELs for Air Contaminants
Butane	CA Hazardous Substance Delaware Air Quality Management Massachusetts Hazardous Substance Minnesota Hazardous Substance New Jersey RTK Hazardous Substance Pennsylvania Hazardous Substance Pennsylvania Hazardous Substance Washington PELs for Air Contaminants
Ethane	Delaware Air Quality Management Massachusetts Hazardous Substance Minnesota Hazardous Substance New Jersey RTK Hazardous Substance New Jersey TCPA EHS Pennsylvania Hazardous Substance Washington PELs for Air Contaminants
Pentane	CA Hazardous Substance Delaware Air Quality Management Idaho Air Pollutant Massachusetts Hazardous Substance Minnesota Hazardous Substance New Jersey TCPA EHS New Jersey RTK Hazardous Substance Pennsylvania Hazardous Substance Washington PELs for Air Contaminants
Heptane	Idaho Air Pollutant Massachusetts Hazardous Substance Minnesota Hazardous Substance Pennsylvania Hazardous Substance Washington PELs for Air Contaminants



## Condensate

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GHS Revision 7. Revision date: 11/25/2025, Supersedes: 2/17/2022, Revision: 3, SDS Number: EP201-018

Chemical Name	Requirements
n-Hexane	Massachusetts Hazardous Substance Delaware Air Quality Management Idaho Air Pollutant Illinois Toxic Air Contaminant Maine Hazardous Air Pollutant Minnesota Hazardous Substance New Jersey RTK Hazardous Substance New Jersey RTK Hazardous Substance New York Hazardous Substance North Carolina Toxic Air Contaminant Pennsylvania Hazardous Substance Washington PELs for Air Contaminants Wisconsin Hazardous Air Containment
Octane	Idaho Air Pollutant Massachusetts Hazardous Substance Minnesota Hazardous Substance Pennsylvania Hazardous Substance Washington PELs for Air Contaminants
Cyclohexane	CA Hazardous Substance Delaware Air Quality Management Idaho Air Pollutant Maine Hazardous Air Pollutant Massachusetts Hazardous Substance Minnesota Hazardous Substance New Jersey RTK Hazardous Substance New York Hazardous Substance Pennsylvania Hazardous Substance Washington PELs for Air Contaminants
Ethyl Benzene	CA Hazardous Substance CA Proposition 65 Substance Delaware Air Quality Management Idaho Air Pollutant Illinois Toxic Air Contaminant Maine Hazardous Air Pollutant Massachusetts Hazardous Substance Minnesota Hazardous Substance New Jersey RTK Hazardous Substance New York Hazardous Substance Pennsylvania Hazardous Substance Washington PELs for Air Contaminants Wisconsin Hazardous Air Containment



# Condensate

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Toluene	CA Hazardous Substance CA Proposition 65 Substance Delaware Air Quality Management Idaho Air Pollutant Illinois Toxic Air Contaminant Maine Hazardous Air Pollutant Massachusetts Hazardous Substance Michigan Critical Material Minnesota Hazardous Substance New Jersey RTK Hazardous Substance New Jersey RTK Hazardous Substance New York Hazardous Substance North Carolina Toxic Air Contaminant North Carolina Toxic Air Contaminant Pennsylvania Hazardous Substance Washington PELs for Air Contaminants Wisconsin Hazardous Air Containment
Xylene	Wisconsin Hazardous Air Containment CA Hazardous Substance Delaware Air Quality Management Idaho Air Pollutant Illinois Toxic Air Contaminant Maine Hazardous Air Pollutant Massachusetts Hazardous Substance Michigan Critical Material Minnesota Hazardous Substance New Jersey RTK Hazardous Substance North Carolina Toxic Air Contaminant Pennsylvania Hazardous Substance Washington PELs for Air Contaminants New York Hazardous Substance
Hydrogen Sulfide	CA Hazardous Substance Delaware Air Quality Management Idaho Air Pollutant Massachusetts Hazardous Substance Maine Hazardous Air Pollutant Minnesota Hazardous Substance New Jersey RTK Hazardous Substance New Jersey TCPA EHS New York Hazardous Substance North Carolina Toxic Air Contaminant Pennsylvania Hazardous Substance Washington PELs for Air Contaminants Wisconsin Hazardous Air Containment



# Condensate

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Benzene	CA Hazardous Substance Delaware Air Quality Management Illinois Toxic Air Contaminant Maine Hazardous Air Pollutant Massachusetts Hazardous Substance Michigan Critical Material Minnesota Hazardous Substance New Jersey RTK Hazardous Substance New York Hazardous Substance North Carolina Toxic Air Contaminant Pennsylvania Hazardous Substance Washington PELs for Air Contaminants West Virginia Toxic Air Pollutant Wisconsin Hazardous Air Containment
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### CALIFORNIA PROPOSITION 65:

Chemical Name	Vol. %	Listed
Toluene	0.1 - 5	• Female Reproductive
Benzene	< 0.1 - 2	• Developmental • Toxicity Male Reproductive

### CANADA WHMIS HAZARD SYMBOL AND CLASSIFICATION



### WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

Class B - Division 2 - Flammable and Combustible Materials.  
 Class D - Division 2, Subdivision A - Poisonous and Infectious Materials



## Condensate

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#### EUROPEAN COMMUNITY

##### EEC LABEL SYMBOL AND CLASSIFICATION



“F+” – Extremely Flammable



“Xn” - Harmful



“T” - Toxic

#### 16. OTHER

#### INFORMATION

##### RELEVANT R-PHRASES:

R45: May cause cancer.

R46: May cause heritable genetic damage.

R65: Harmful: may cause lung damage if swallowed.

R12: Extremely flammable.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapors may cause drowsiness and dizziness.

R11: Highly flammable.

R38: Irritating to skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R48/20: Harmful : danger of serious damage to health by prolonged exposure through inhalation.

R62: Possible risk of impaired fertility.

R20: Harmful by inhalation.

R63: Possible risk of harm to the unborn child.

R10: Flammable.

R20/21: Harmful by inhalation and in contact with skin.

R26: Very toxic by inhalation.

R36/38: Irritating to eyes and skin.



## Condensate

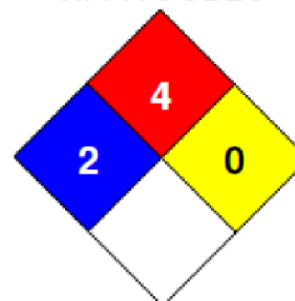
### Safety Data Sheet

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#### HMIS RATING

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>4</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>H</b>

#### NFPA CODES



**HMIS RATINGS NOTES:** Please refer to Section 8 of this SDS for recommended personal protective equipment.

#### MANUFACTURER SUPPLEMENTAL NOTES:

**RADIOACTIVITY HAZARD** - This information is given to call attention to the issue of "Naturally Occurring Radioactive Materials". Although Radon-222 levels in the product represented by the SDS do not present any direct Radon exposure hazard, customers should be aware of the potential for Radon daughter buildup within their processing systems, whatever the source of their product streams. For additional information please refer to the contact information in Section 1.

#### DATA SOURCES:

#### REFERENCES

ACGIH. 2012 Guide to Occupational Exposure Values. Cincinnati, OH. Signature Publications, 2012.  
 Forsberg, K.; Mansdorf, S.Z. Quick Selection Guide to Chemical Protective Clothing. Fifth Edition. Hoboken, NJ. John Wiley & Sons, 2007.  
 Lide, D.R. CRC Handbook of Chemistry and Physics. 88th Edition. Boca Raton, FL. CRC Press, 2008.  
 UNECE. Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Third Revised Edition. New York and Geneva. United Nations, 2009.  
 US DOT; Pipeline and Hazardous Materials Safety Administration. 2008 Emergency Response Guidebook. Neenah, WI. J.J. Keller & Associates, Inc. 2008.  
 US EPA. Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act. [Available]  
 Online: <http://www.epa.gov/ceppo/pubs/title3.pdf>. Retrieved 02/02/2011.

#### ADDITIONAL SDS INFORMATION:

#### KEY / LEGEND

ACGIH - American Conference of Governmental Industrial Hygienists  
 ADR - Agreement on Dangerous Goods by Road  
 CAA - Clean Air Act  
 CAS - Chemical Abstracts Service Registry Number  
 CDG - Carriage of Dangerous Goods By Road and Rail Manual  
 CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
 CFR - Code of Federal Regulations  
 EINECS - European Inventory of Existing Chemical Substances Registry Number  
 ERG - Emergency Response Guidebook



## Condensate

### Safety Data Sheet

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EPCRA - Emergency Planning and Community Right-to-Know Act  
GHS - Globally Harmonized System of Classification and Labeling of Chemicals  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
ICAO - International Civil Aviation Organization  
IMDG - International Maritime Dangerous Goods Code  
IMO - International Maritime Organization  
N/E - Not Established  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PEL - Permissible Exposure Limit  
PPE - Personal Protective Equipment  
RCRA - Resource Conservation and Recovery Act  
RID - Regulations Concerning the International Transport of Dangerous Goods by Rail  
RQ - Reportable Quantities  
SARA - Superfund Amendments and Reauthorization Act of 1986  
SDS - Safety Data Sheet  
TCC - Tag Closed Cup  
TDG - Transportation of Dangerous Goods  
TLV - Threshold Limit Value  
TSCA - Toxic Substance Control Act  
UN/NA - United Nations / North American Number  
UNECE - United Nations Economic Commission for Europe  
US DOT - United States Department of Transportation  
US EPA - United States Environmental Protection Agency  
Vol. - Volume  
WHMIS - Workplace Hazardous Materials Information System

**GENERAL STATEMENTS:** Other information not included anywhere else in this SDS is included in this section if, in fact, such data exists.

**MANUFACTURER DISCLAIMER:** This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.



## APPENDIX B

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Wes Weichert  
 Ensolum LLC  
 848 E 2nd Avenue  
 Durango, Colorado 81301  
 Generated 3/30/2026 3:08:06 PM

## JOB DESCRIPTION

Chaco Produced Water Spill  
 2022

## JOB NUMBER

885-45663-1

Eurofins Albuquerque  
 4901 Hawkins NE  
 Albuquerque NM 87109



# Eurofins Albuquerque

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



Generated  
3/30/2026 3:08:06 PM

Authorized for release by  
John Caldwell, Project Manager  
[john.caldwell@et.eurofinsus.com](mailto:john.caldwell@et.eurofinsus.com)  
(505)345-3975

Client: Ensolum LLC  
Project/Site: Chaco Produced Water Spill

Laboratory Job ID: 885-45663-1  
SDG: 2022



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## Definitions/Glossary

Client: Ensolum LLC  
Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
SDG: 2022

## Qualifiers

## General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.

## Glossary

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

# Case Narrative

Client: Ensolum LLC  
Project: Chaco Produced Water Spill

Job ID: 885-45663-1

**Job ID: 885-45663-1**

**Eurofins Albuquerque**

## Job Narrative 885-45663-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 3/20/2026 8:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

### GC/MS VOA

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.

### General Chemistry

Method 2540C: The analysis volume selected for the following sample produced a base result greater than 200mg before calculation of the final result: MW-4 (885-45663-2). Reanalysis could not be performed due to holding time exceedance. Visual inspection by analyst shows no signs of trapped moisture, report as is The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

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

Eurofins Albuquerque



### Client Sample Results

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

**Client Sample ID: MW-5**

**Lab Sample ID: 885-45663-1**

Date Collected: 03/19/26 10:44

Matrix: Water

Date Received: 03/20/26 08:49

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			03/27/26 15:22	1
Ethylbenzene	ND		1.0	ug/L			03/27/26 15:22	1
Toluene	ND		1.0	ug/L			03/27/26 15:22	1
Xylenes, Total	ND		1.5	ug/L			03/27/26 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		03/27/26 15:22	1
Toluene-d8 (Surr)	105		70 - 130		03/27/26 15:22	1
4-Bromofluorobenzene (Surr)	95		70 - 130		03/27/26 15:22	1
Dibromofluoromethane (Surr)	96		70 - 130		03/27/26 15:22	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		5.0	mg/L			03/22/26 14:24	10

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4900		250	mg/L			03/24/26 11:19	1

### Client Sample Results

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

**Client Sample ID: MW-4**

**Lab Sample ID: 885-45663-2**

Date Collected: 03/19/26 11:51

Matrix: Water

Date Received: 03/20/26 08:49

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			03/27/26 15:49	1
Ethylbenzene	ND		1.0	ug/L			03/27/26 15:49	1
Toluene	ND		1.0	ug/L			03/27/26 15:49	1
Xylenes, Total	ND		1.5	ug/L			03/27/26 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		03/27/26 15:49	1
Toluene-d8 (Surr)	107		70 - 130		03/27/26 15:49	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/27/26 15:49	1
Dibromofluoromethane (Surr)	96		70 - 130		03/27/26 15:49	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		5.0	mg/L			03/22/26 14:46	10

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4700	E	100	mg/L			03/24/26 11:19	1

### Client Sample Results

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

**Client Sample ID: MW-8**

**Lab Sample ID: 885-45663-3**

Date Collected: 03/19/26 13:14

Matrix: Water

Date Received: 03/20/26 08:49

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			03/27/26 16:17	1
Ethylbenzene	ND		1.0	ug/L			03/27/26 16:17	1
Toluene	ND		1.0	ug/L			03/27/26 16:17	1
Xylenes, Total	ND		1.5	ug/L			03/27/26 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/27/26 16:17	1
Toluene-d8 (Surr)	105		70 - 130		03/27/26 16:17	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/27/26 16:17	1
Dibromofluoromethane (Surr)	98		70 - 130		03/27/26 16:17	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.0	mg/L			03/22/26 15:07	10

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4200		250	mg/L			03/24/26 11:19	1

### Client Sample Results

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

**Client Sample ID: MW-7**

**Lab Sample ID: 885-45663-4**

Date Collected: 03/19/26 14:01

Matrix: Water

Date Received: 03/20/26 08:49

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			03/27/26 16:44	1
Ethylbenzene	ND		1.0	ug/L			03/27/26 16:44	1
<b>Toluene</b>	<b>1.0</b>		1.0	ug/L			03/27/26 16:44	1
Xylenes, Total	ND		1.5	ug/L			03/27/26 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/27/26 16:44	1
Toluene-d8 (Surr)	106		70 - 130		03/27/26 16:44	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/27/26 16:44	1
Dibromofluoromethane (Surr)	97		70 - 130		03/27/26 16:44	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>66</b>		5.0	mg/L			03/22/26 15:51	10

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>4400</b>		250	mg/L			03/24/26 11:19	1

### Client Sample Results

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

**Client Sample ID: MW-6**

**Lab Sample ID: 885-45663-5**

Date Collected: 03/19/26 14:45

Matrix: Water

Date Received: 03/20/26 08:49

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			03/27/26 17:11	1
Ethylbenzene	ND		1.0	ug/L			03/27/26 17:11	1
Toluene	ND		1.0	ug/L			03/27/26 17:11	1
Xylenes, Total	ND		1.5	ug/L			03/27/26 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/27/26 17:11	1
Toluene-d8 (Surr)	107		70 - 130		03/27/26 17:11	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/27/26 17:11	1
Dibromofluoromethane (Surr)	96		70 - 130		03/27/26 17:11	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39		5.0	mg/L			03/22/26 16:13	10

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4700		500	mg/L			03/24/26 11:19	1

### QC Sample Results

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-45656/4  
 Matrix: Water  
 Analysis Batch: 45656

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			03/27/26 14:54	1
Ethylbenzene	ND		1.0	ug/L			03/27/26 14:54	1
Toluene	ND		1.0	ug/L			03/27/26 14:54	1
Xylenes, Total	ND		1.5	ug/L			03/27/26 14:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		03/27/26 14:54	1
Toluene-d8 (Surr)	107		70 - 130		03/27/26 14:54	1
4-Bromofluorobenzene (Surr)	95		70 - 130		03/27/26 14:54	1
Dibromofluoromethane (Surr)	94		70 - 130		03/27/26 14:54	1

Lab Sample ID: LCS 885-45656/3  
 Matrix: Water  
 Analysis Batch: 45656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	16.7		ug/L		83	70 - 130
Toluene	20.0	21.9		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

Lab Sample ID: 885-45663-1 MS  
 Matrix: Water  
 Analysis Batch: 45656

Client Sample ID: MW-5  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		20.0	16.0		ug/L		80	70 - 130
Toluene	ND		20.0	21.3		ug/L		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

Lab Sample ID: 885-45663-1 MSD  
 Matrix: Water  
 Analysis Batch: 45656

Client Sample ID: MW-5  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		20.0	15.6		ug/L		78	70 - 130	2	20
Toluene	ND		20.0	21.2		ug/L		106	70 - 130	0	20

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### QC Sample Results

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-45663-1 MSD  
 Matrix: Water  
 Analysis Batch: 45656

Client Sample ID: MW-5  
 Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-45249/4  
 Matrix: Water  
 Analysis Batch: 45249

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			03/22/26 11:52	1

Lab Sample ID: LCS 885-45249/5  
 Matrix: Water  
 Analysis Batch: 45249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	5.14		mg/L		103	90 - 110

Lab Sample ID: MRL 885-45249/3  
 Matrix: Water  
 Analysis Batch: 45249

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.542		mg/L		108	50 - 150

#### Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-45405/1  
 Matrix: Water  
 Analysis Batch: 45405

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			03/24/26 11:19	1

Lab Sample ID: LCS 885-45405/2  
 Matrix: Water  
 Analysis Batch: 45405

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

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## QC Association Summary

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

## GC/MS VOA

## Analysis Batch: 45656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-45663-1	MW-5	Total/NA	Water	8260B	
885-45663-2	MW-4	Total/NA	Water	8260B	
885-45663-3	MW-8	Total/NA	Water	8260B	
885-45663-4	MW-7	Total/NA	Water	8260B	
885-45663-5	MW-6	Total/NA	Water	8260B	
MB 885-45656/4	Method Blank	Total/NA	Water	8260B	
LCS 885-45656/3	Lab Control Sample	Total/NA	Water	8260B	
885-45663-1 MS	MW-5	Total/NA	Water	8260B	
885-45663-1 MSD	MW-5	Total/NA	Water	8260B	

## HPLC/IC

## Analysis Batch: 45249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-45663-1	MW-5	Total/NA	Water	300.0	
885-45663-2	MW-4	Total/NA	Water	300.0	
885-45663-3	MW-8	Total/NA	Water	300.0	
885-45663-4	MW-7	Total/NA	Water	300.0	
885-45663-5	MW-6	Total/NA	Water	300.0	
MB 885-45249/4	Method Blank	Total/NA	Water	300.0	
LCS 885-45249/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-45249/3	Lab Control Sample	Total/NA	Water	300.0	

## General Chemistry

## Analysis Batch: 45405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-45663-1	MW-5	Total/NA	Water	2540C	
885-45663-2	MW-4	Total/NA	Water	2540C	
885-45663-3	MW-8	Total/NA	Water	2540C	
885-45663-4	MW-7	Total/NA	Water	2540C	
885-45663-5	MW-6	Total/NA	Water	2540C	
MB 885-45405/1	Method Blank	Total/NA	Water	2540C	
LCS 885-45405/2	Lab Control Sample	Total/NA	Water	2540C	

### Lab Chronicle

Client: Ensolum LLC  
 Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
 SDG: 2022

**Client Sample ID: MW-5**  
 Date Collected: 03/19/26 10:44  
 Date Received: 03/20/26 08:49

**Lab Sample ID: 885-45663-1**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	45656	JP	EET ALB	03/27/26 15:22
Total/NA	Analysis	300.0		10	45249	JT	EET ALB	03/22/26 14:24
Total/NA	Analysis	2540C		1	45405	KS	EET ALB	03/24/26 11:19

**Client Sample ID: MW-4**  
 Date Collected: 03/19/26 11:51  
 Date Received: 03/20/26 08:49

**Lab Sample ID: 885-45663-2**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	45656	JP	EET ALB	03/27/26 15:49
Total/NA	Analysis	300.0		10	45249	JT	EET ALB	03/22/26 14:46
Total/NA	Analysis	2540C		1	45405	KS	EET ALB	03/24/26 11:19

**Client Sample ID: MW-8**  
 Date Collected: 03/19/26 13:14  
 Date Received: 03/20/26 08:49

**Lab Sample ID: 885-45663-3**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	45656	JP	EET ALB	03/27/26 16:17
Total/NA	Analysis	300.0		10	45249	JT	EET ALB	03/22/26 15:07
Total/NA	Analysis	2540C		1	45405	KS	EET ALB	03/24/26 11:19

**Client Sample ID: MW-7**  
 Date Collected: 03/19/26 14:01  
 Date Received: 03/20/26 08:49

**Lab Sample ID: 885-45663-4**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	45656	JP	EET ALB	03/27/26 16:44
Total/NA	Analysis	300.0		10	45249	JT	EET ALB	03/22/26 15:51
Total/NA	Analysis	2540C		1	45405	KS	EET ALB	03/24/26 11:19

**Client Sample ID: MW-6**  
 Date Collected: 03/19/26 14:45  
 Date Received: 03/20/26 08:49

**Lab Sample ID: 885-45663-5**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	45656	JP	EET ALB	03/27/26 17:11
Total/NA	Analysis	300.0		10	45249	JT	EET ALB	03/22/26 16:13
Total/NA	Analysis	2540C		1	45405	KS	EET ALB	03/24/26 11:19

**Laboratory References:**

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

### Accreditation/Certification Summary

Client: Ensolum LLC  
Project/Site: Chaco Produced Water Spill

Job ID: 885-45663-1  
SDG: 2022

#### Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-27

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

### Chain-of-Custody Record

Client: Ensoium LLC  
 Mailing Address: 848 E. 2nd Ave  
Durango CO 81301  
 Phone #: \_\_\_\_\_

email or Fax#: wweichert@ensoium.com  
 QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  Other  
 NELAC  Other  
 EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/19/24	1044	W	MW-5	3 VOAS, one 500ml	HCl + unreserved	
	1151		MW-4			
	1314		MW-8			
	1401		MW-7			
	1445		MW-6			

Date: 3/19/24 Time: 1130  
 Relinquished by: Wes Weichert  
 Date: 3/19/24 Time: 1130  
 Relinquished by: Wes Weichert

Turn-Around Time: 5-day  
 Standard  Rush  
 Project Name: Chaco Produced Water Spill (2022)  
 Project #: 05B1226019

Project Manager: Wes Weichert  
 Sampler: Hamper Peck  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 2.702 = 2.3 (°C)

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Total Dissolved Solids (TDS)
X (BTEX)					X				X
X					X				X
X					X				X
X					X				X
X					X				X

HALL ENVIRONMENTAL ANALYSIS LABO  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87  
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request  
 Remarks: cc: dmoir@ensoium.com, hpeck@ensoium.com, vpmpps@eprod.com



### Login Sample Receipt Checklist

Client: Ensolum LLC

Job Number: 885-45663-1

SDG Number: 2022

**Login Number: 45663**

**List Number: 1**

**Creator: McQuiston, Steven**

**List Source: Eurofins Albuquerque**

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



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**

CONDITIONS

Action 579373

**CONDITIONS**

Operator: ENTERPRISE FIELD SERVICES L.L.C. PO Box 4324 Houston, TX 77210	OGRID: 151618
	Action Number: 579373
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	5/5/2026