CityCentre Four
840 West Sam Houston Parkway North
Suite 600
Houston, Texas 77024

T +1 281 600 1000
F +1 281 520 4625

erm.com

Dustin Davidson, Secretary
Attn: Katie Robinson
Office of Permitting and Compliance
Louisiana Department of Conservation and Energy
617 North Third Street, LaSalle Building
Baton Rouge, Louisiana 70802-5431

DATE
November 21, 2025

SUBJECT
13th Analytical Data Submittal
Sulphur Mines Dome
Calcasieu Parish, Louisiana

REFERENCE
0801006

Dear Mr. Davidson:

On behalf of Westlake US 2, LLC (Westlake), Environmental Resources Management Southwest, Inc. (ERM) is pleased to provide the Louisiana Department of Conservation and Energy Office of Permitting and Compliance (LDC&E OPC) with a summary of field sampling activities, data evaluation, and final laboratory analytical reports for groundwater, brine, surface water, and gas samples collected at the Sulphur Mines Dome in Calcasieu Parish during the 3rd Quarter of 2025 (3Q25).

The summary tables provided with this report include only data collected over the previous 12 months, while the trend graphs and data plots will continue to include all analytical data received. Only final laboratory reports received since the previous data submittal are provided in Attachment 1. Supplemental submittals will be made as additional final laboratory analytical data are received. The field notes recorded during sampling are provided as Attachment 2.

1. WATER SAMPLING RESULTS

From July through September 2025, additional samples of groundwater were collected on a monthly basis. Surface water sampling is on a quarterly schedule with samples collected for 3Q25 in July. The sampling locations are shown in Figures 1 and 2. The water samples were analyzed by ALS Global laboratory in Houston, Texas, a Louisiana Environmental Laboratory Accreditation Program (LELAP)-accredited laboratory. Dissolved gas samples were submitted to and analyzed by Isotech, a Stratum Reservoir Company, in Champaign, Illinois. All samples were hand delivered or shipped under proper Chain-of-Custody in laboratory-supplied containers with appropriate preservatives.

1.1 WATER WELL SAMPLING AND RESULTS

Monthly groundwater samples continue to be collected from the industrial water wells operated by Westlake. An attempt is made to sample all water wells during the sampling events. However, periodically the water wells are not in operation or not accessible and are not able to be sampled during a sampling event. Water wells #11 (019-580) and #19 (019-1055) were all inoperable

Louisiana Professional Engineering & Land Surveying Board License #EF0001354
© Copyright 2025 by The ERM International Group Limited and/or its affiliates ('ERM'). All Rights Reserved.
No part of this work may be reproduced or transmitted in any form or by any means, without prior written permission of ERM.

during the July 2025 sampling event. Well #11 (019-580) was inoperable in August 2025. Well #40(019-1603) was inoperable in September 2025.

At each water well, water was allowed to flow for several minutes prior to sampling. Field parameters, i.e., pH, specific conductivity (SC), oxidation-reduction potential (ORP), and temperature, were recorded with a hand-held meter at the time of sampling. The groundwater analytical data for the last 12 months of sampling are summarized in Table 1. Most constituent concentrations have remained generally consistent over time.

Groundwater chloride trend graphs for the Chicot aquifer are provided as Figures 3-4. Concentrations reported in samples from the water wells have consistently been below their respective RECAP screening standards (GWSS) or EPA Secondary Maximum Contaminant Limits (SMCL), except for naturally-occurring iron and manganese. Minor TPH fraction detections have been periodically and sporadically reported at levels well below RECAP GWSS.

A Piper diagram depicting the water quality of multiple groundwater samples is provided as Figure 5. The Piper diagram illustrates the differences between the Chicot aquifer water and the produced water and brine. The industrial water wells ("500-foot" sand) and the Cottages well ("700-foot" sand) consistently plot in tight clusters, with the "500-foot" and "700-foot" sands having slightly different water quality signatures, both distinctly different from the produced water or brine. The data do not indicate mixing between the brine or produced water is occurring at the industrial water wells or Cottages Well.

Three brine samples were collected from PPG-4 (SN 37320) on August 28th, 2025, via wireline sampler from depths 2445', 2615', and 2980'. These data are included in Table 1 for comparison with the groundwater results. Since brine is a manufactured product, the data was not evaluated with respect to the RECAP GWSS or the SMCL. The brine samples from PPG-4 are very similar to other brine samples collected within the Sulphur Mines Salt Dome. Stable isotopes of the brine water were evaluated and shown along with other brine and produced water samples on Figure 6. The stable isotopes plot very near to the global meteoric water line, which is expected as the water in the caverns originates from the Chicot aquifer, which is recharged with meteoric (rain) water. The produced water collected from onsite oil wells is distinctly different from the Chicot groundwater.

1.2 MONITORING WELL SAMPLING AND RESULTS

The monitoring wells have been sampled on a monthly schedule beginning in July 2025. The pump intake is set in the middle of the screened interval. During pumping, water quality parameters (pH, specific conductance, oxidation-reduction potential, dissolved oxygen, temperature, and turbidity) were monitored along with the drawdown in the well to ensure a representative sample was collected from the aquifer. Once the water quality parameters stabilize, a sample is collected. The analytical data for the monitoring well samples over the previous 12 months are summarized in Table 1.

Constituents are generally reported below their respective GWSS or SMCL standards with elevated naturally-occurring iron and manganese, consistent with the onsite water wells. Trend graphs of

the chloride concentrations within the monitoring wells are provided as Figures 3-4. At the MW-3 well cluster, chloride and TDS remain above their SMCLs in MW-3-500 and MW-3-700 as observed in all previous samples. Trend lines of elevated chloride concentrations reported in MW-3-500 and MW-3-700 are shown in Figure 4.

During the 3rd Quarter 2025 a small amount of non-aqueous phase liquid (NAPL) was observed on the water level meter during gauging of MW-2-500. An absorbent sock was added into the well, at the water level, to limit the impact of NAPL on the sampling equipment. The groundwater samples collected from within the screened interval (~460 feet below the water level) have been consistent over time and do not show an increase in hydrocarbons.

Generally, benzene, ethylbenzene, toluene, and xylenes (BTEX), along with total petroleum hydrocarbons (TPH) fractions are not detected in the samples. However, minor detections are reported periodically in nearly all the wells. Low levels of benzene, toluene, and light hydrocarbons (Aliphatics >C6-C8) have been consistently reported in MW-3-500 below the GWSS through the 3rd Quarter of 2025. The concentrations of BTEX and TPH fractions are not increasing over time.

As illustrated in the Piper diagram (Figure 5), groundwater data appear to have stabilized. Some variability has been observed for several of the wells, but over the last several months the water quality data have been generally consistent. Sulfate has been decreasing in a few of the wells, as shown on Figure 7, and appears to have stabilized at most locations. Sulfate is reported as not detected or at very low concentrations in all monitoring wells except MW-3-500.

1.2.1 HYDROGEN SULFIDE

Dissolved hydrogen sulfide (H_2S) has occasionally been reported in monitoring well samples. Its presence is typically attributed to sulfate-reducing bacteria in the groundwater or wells, which produce H_2S through the reduction of sulfate under anaerobic conditions. Sulfate concentrations appear to have stabilized.

At the end of the 2nd Quarter 2025, a sudden increase of dissolved H_2S was reported in nearly all monitoring wells. In July, dissolved H_2S levels were still elevated in the monitoring wells across the site. A trend graph of H_2S in the monitoring wells is included as Figure 8. The sudden appearance of H_2S in the monitoring wells at the same time is unusual. However, by August, dissolved H_2S was reported in almost all wells as not detected, or at very low concentrations.

Beginning with the August sampling event, ERM implemented a qualitative field test kit (Hach HS-C1 Hydrogen Sulfide Test Kit) as a check for dissolved H_2S at each monitoring well. Low levels of dissolved H2S were observed in MW-1-700, MW-2-500, MW-2-700, and MW-3-200. At MW-3-500, the field test kit indicated >5 ppm dissolved H_2S. These field data will continue to be collected and will only be used for comparison with the accredited lab data. Gaseous H_2S will continue to be monitored at each well during sampling. To date there have not been any reported detections of H_2S in the breathing space at the wells.

1.2.2 MW-3-500 SAMPLING MODIFICATION

After detecting elevated hydrogen sulfide levels in several monitoring wells, a one-time modification to the sampling approach in July sampling routine was conducted to evaluate hydrogen sulfide concentrations at MW-3-500. The objective was to purge a greater volume of water than standard low-flow sampling typically requires in order to evaluate potential biases in water quality from the sampling method.

One sample from MW-3-500 was collected prior to purging, which was consistent with samples collected in months prior. During the purging, a decrease in pH was observed, but stabilized after approximately 40 gallons had been removed. Typical for this well, low-flow sampling purges only about 4–5 gallons, to account for sample tubing volume (approximately 2.9 gallons), and parameter stabilization. A total of 106 gallons was removed from the well during purging.

Following the purging, an additional sample was collected using the low-flow sampling technique. When compared with the pre-purge sample, there were notable increases in calcium, iron, magnesium, manganese, sodium, strontium, bicarbonate alkalinity and sulfate, coupled with notable decreases in potassium, carbonate alkalinity, pH, and hydrogen sulfide. Slight increases in chloride, total dissolved solids (TDS), and dissolved methane were also observed. In August, approximately one month after purging, low-flow sampling results were consistent with the July post-purge data.

The low-flow sampling method used may not generate sufficient water movement to avoid biases in results due to localized alterations in water chemistry near or within the well. These chemistry changes happen slowly and may not reflect regional groundwater quality, but appear to be overcome with periodic purging of the wells. The data in MW-3-500 will continue to be monitored to see if the same water quality changes occur over time following the purging as occurred over the first year of sampling.

1.3 SURFACE WATER SAMPLING RESULTS

In July 2025, surface water samples were collected from the Central Lake, Salt Lake (LDNR 26), Brine Well 7B vault (PPG 7B BS), and the water body adjacent to Brine Well 4 (LDNR 9, and LDNR 19). The sampling locations are shown in Figure 2. Surface water sample data over the previous 12 months is summarized in Table 2.

1.3.1 CENTRAL LAKE SAMPLE RESULTS

In July 2025, chloride concentrations in Central Lake were consistent with expected seasonal levels. The site received normal expected rainfall during those months. Central Lake is generally homogeneous, with minor variations in water quality between sampling locations.

Field readings from the Central Lake water column are continuing on a weekly basis. The profile data collected from the monitoring station over the previous 12 months are summarized in Table 3. Trend graphs of the field measured TDS and water depth are shown on Figure 9. Laboratory reported TDS confirms the general trend observed in the field data. During the 3rd Quarter of 2025 the water quality within the Central Lake was generally consistent with previous sampling events.

The surface water will continue to be monitored to evaluate changes over time, which appear vary seasonally and with water level changes.

1.3.2 EMERGENCY SAMPLING

On August 1, 2025, ERM was notified of a fish die-off event observed in the central portion of the Central Lake (see Figure 10). In response, emergency surface water sampling was conducted within the Central Lake that day. Water samples were collected from the die-off area and an adjacent location without encountering any dead fish. Field measurements were taken using a handheld multiparameter meter at both the surface and bottom of the water column (see Table 4). Fish die-off events are common in the warm summer months as dissolved oxygen levels decrease. The field data show oxygen levels decrease with depth, with much lower levels in the die-off area. Other water quality data are consistent with previous data without notable changes.

2. GAS SAMPLING RESULTS

Most of the submerged bubble sites were successfully sampled using a water-displacement technique. For sites where visible bubbling wasn't observed, dissolved gas samples were taken. A summary of the gas data gathered over the past 12 months is provided in Table 5, and the sampling locations are illustrated in Figures 1 and 2. Dissolved gas samples continue to be collected from the water wells and monitoring wells on a monthly basis (Table 5).

Several identified bubble sites (LDNR-10, 27, 28, and PPG-07A) were dry and difficult to locate. Gas samples were collected from these areas using a methane detector to help pinpoint the likely bubble locations. The samples were obtained using a hand pump and funnel setup, sealed with modeling clay to minimize atmospheric contamination. Despite these precautions, the samples often contain significant amounts of atmospheric gases.

2.1 METHANE ISOTOPES

Methane isotopic data remains consistent and continues to reflect established trends. Figure 11 presents the latest data alongside previous samples, reaffirming the thermogenic signature of gases from the caverns, oil wells and bubble sites. Gases within the "500-foot" and 700-foot" sands of the Chicot aquifer continue to display a biogenic signature and are increasingly indicative of near-surface microbial generated gas. MW-3-500 continues to show a thermogenic signature. Additionally, the gas from the "200-foot" sand still plots within the thermogenic range, exhibiting compositional and isotopic differences from deeper Chicot gases and remaining distinct from bubble site samples. The latest results align with previously observed data suggesting potential mixing of microbial and thermogenic sources in the "200-foot" sand.

MW-3-500 continues to exhibit gas and water quality characteristics different than the other monitoring wells. It remains the only well with consistent benzene detection and exhibits chloride concentrations significantly higher than typically expected for the "500-foot" sand. Water temperature at this location also remains elevated. Methane isotopes still form a distinct cluster, setting this well apart from others in the dataset. These data suggest that the "500-foot" sand at MW-3 has likely been influenced by historical activity associated with the salt dome.

As previously observed, three bubble sites—LDNR-07, LDNR-08, and LDNR-12—continue to plot in a distinct cluster compared to the other bubble site gas data. Their similar gas compositions suggest a potential shared origin.

2.2 GAS COMPOSITION

The composition of the gas varies between samples collected throughout the salt dome. The gas compositions at the individual bubble site locations have remained consistent and exhibited very little variation over time. There does not appear to be a singular or central gas source on the salt dome.

2.3 HYDROGEN SULFIDE

In July 2025, gas samples collected from the bubble sites were analyzed for hydrogen sulfide (H_2S). The samples were submitted to SPL for laboratory testing, and the results are summarized in Table 5. At most bubble sites, H_2S was either not detected or present at very low concentrations. However, elevated H_2S levels were observed at several locations, specifically LDNR-01, LDNR-03, LDNR-04, LDNR-05, LDNR-10, LDNR-17, LDNR-18, LDNR-19, LDNR-21, and LDNR-24. The sudden increase in H_2S in these bubble sites occurred at approximately the same time as the increased dissolved H_2S was observed in the monitoring wells. The correlation between the H_2S observed in the bubble sites and the monitoring wells is not known. Additional samples will be collected during the 4th quarter to evaluate the potential correlation between the H_2S detections in the bubble sites and monitoring wells.

3. POTENTIOMETRIC SURFACE

Groundwater levels are measured at the beginning of each sampling event. Prior to measuring, each well is opened and given time to equilibrate with atmospheric pressure. Table 6 provides a summary of the survey data and water level measurements collected over the past 12 months.

Potentiometric surface contour maps for the three Chicot sand intervals, covering the period from July to September 2025, are shown in Figures 12 through 20. Due to elevated TDS in some wells, groundwater elevations have been adjusted for density to reflect equivalent freshwater head (EFWH) [Post et al., 2007]. Groundwater within the “200-foot” sand appears to flow southeast, with elevated levels observed in the MW-1-200 well. In the “500-foot” and “700-foot” sand units, flow direction trends southwest toward the industrial water wells. This flow pattern has remained consistent across all three sand intervals since installation of the monitoring wells. Groundwater levels will continue to be routinely monitored.

A hydrograph of the water levels in the monitoring wells is provided as Figure 21. The consistent water elevations and response patterns observed in the “500-foot” and “700-foot” wells suggest a hydraulic connection between these units. Water level data from MW-2-200 and MW-3-200 generally align with trends seen in the deeper wells, possibly reflecting the impact of ongoing pumping from nearby industrial wells. In contrast, MW-1-200 shows a differing trend from the other “200-foot” monitoring wells, which may be due to a nearby recharge boundary or reduced pumping influence.

4. SCHEDULE

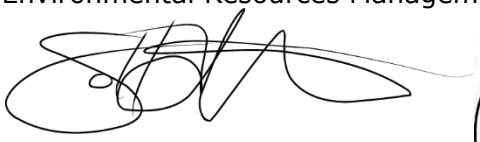
Sampling at bubble sites and surface water locations has been reduced to a quarterly frequency, while groundwater sampling for both industrial and monitoring wells has continued on a monthly basis. LDC&E will be notified at least five business days in advance of sampling activities, and analytical results will be provided within 48 hours of receiving the final report.

Reporting will continue on a quarterly basis. The next report will be prepared following the 4th Quarter 2025 sampling events and is expected to be submitted in February 2026 after all analytical data are received.

Should you have any questions or need additional information, please contact us at scott.himes@erm.com and david.upthegrove@erm.com.

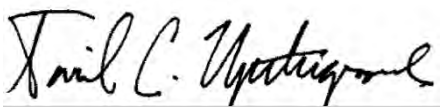
Sincerely,

Environmental Resources Management Southwest, Inc.





Scott A. Himes, P.G.
Principal Hydrogeologist





David C. Upthegrove, P.G.
Partner

SAH/DCU/pcv

REFERENCES CITED

Post, V., H. Kooi, and C. Simmons, 2007, *Using hydraulic head measurements in variable-density ground water flow analyses*, Groundwater, Vol 45, Iss 6, pp. 664-671.

FIGURES

LIST OF FIGURES:

1 – GROUNDWATER SAMPLING LOCATIONS
2 – BUBBLE SITE SAMPLING LOCATIONS
3 – GROUNDWATER CHLORIDE TREND
4 – GROUNDWATER CHLORIDE TREND – MW-3-500 & MW-3-700
5 – GROUNDWATER PIPER DIAGRAM
6 – WATER STABLE ISOTOPES
7 – GROUNDWATER SULFATE TREND
8 – GROUNDWATER HYDROGEN SULFIDE TREND
9 – CENTRAL LAKE TDS TREND
10 – AREA OF FISH DIE-OFF OBSERVATION
11 – METHANE ISOTOPES
12 – 14 – POTENTIOMETRIC SURFACE MAPS – JULY 2025
15 – 17 – POTENTIOMETRIC SURFACE MAPS – AUGUST 2025
18 – 20 – POTENTIOMETRIC SURFACE MAPS – SEPTEMBER 2025
21 – GROUNDWATER HYDROGRAPH

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\04_LDNR Submittals\13\01_Groundwater Sampling Locations.mxd, REVISED: 11/04/2025, SCALE: 1:9,000 when printed at 8.5x11 DRAWN BY: SAH



Legend

- Water Well Sample Location
- Monitoring Well Sample Location
- Produced Water Sample Location
- Brine Sample Location
- Westlake Property

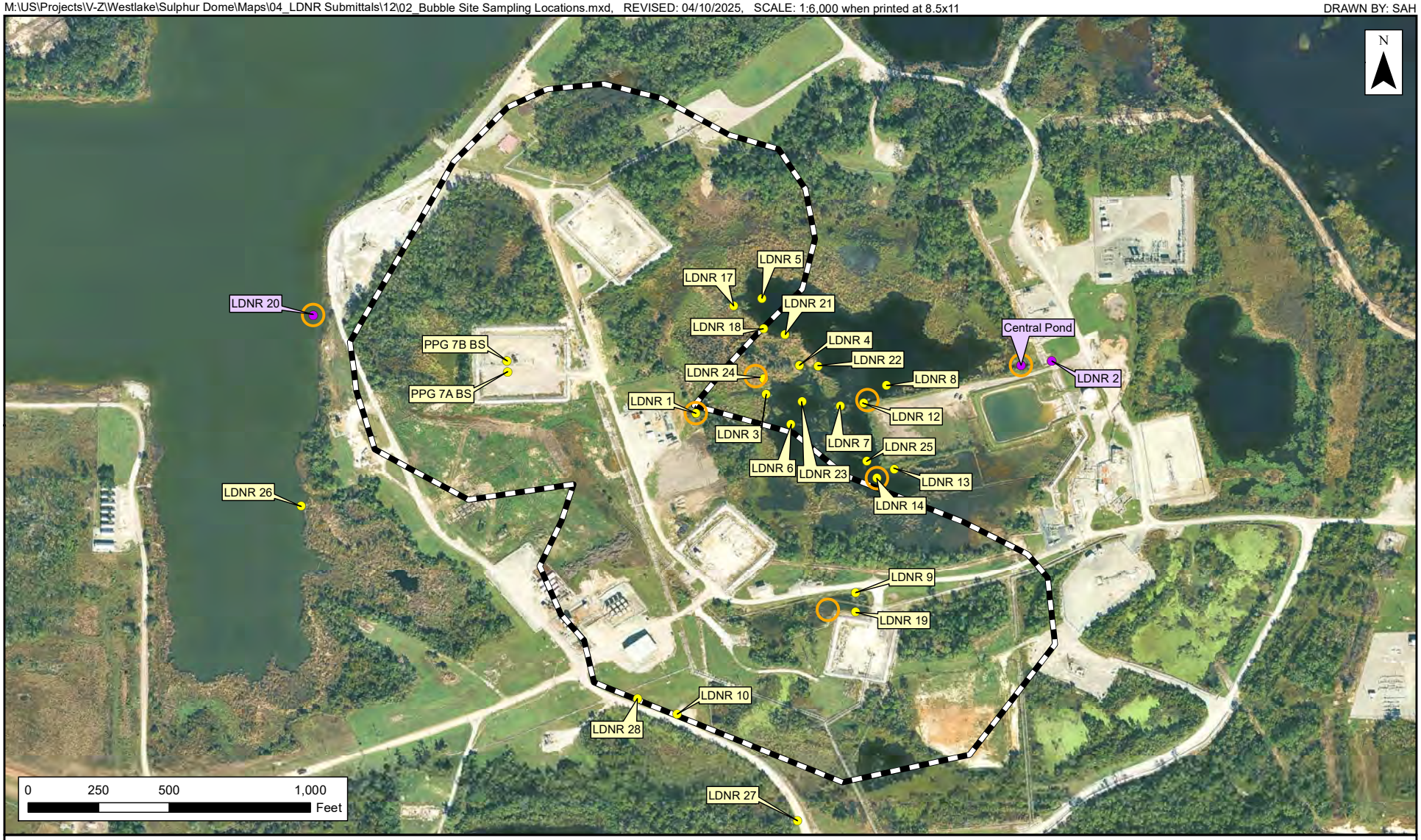
Notes:
Aerial imagery basemap via ArcGIS online.

Figure 1
Groundwater Sampling Locations
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; GCS North American 1983

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\04_LDNR Submittals\12\02_Bubble Site Sampling Locations.mxd, REVISED: 04/10/2025, SCALE: 1:6,000 when printed at 8.5x11 DRAWN BY: SAH



Legend

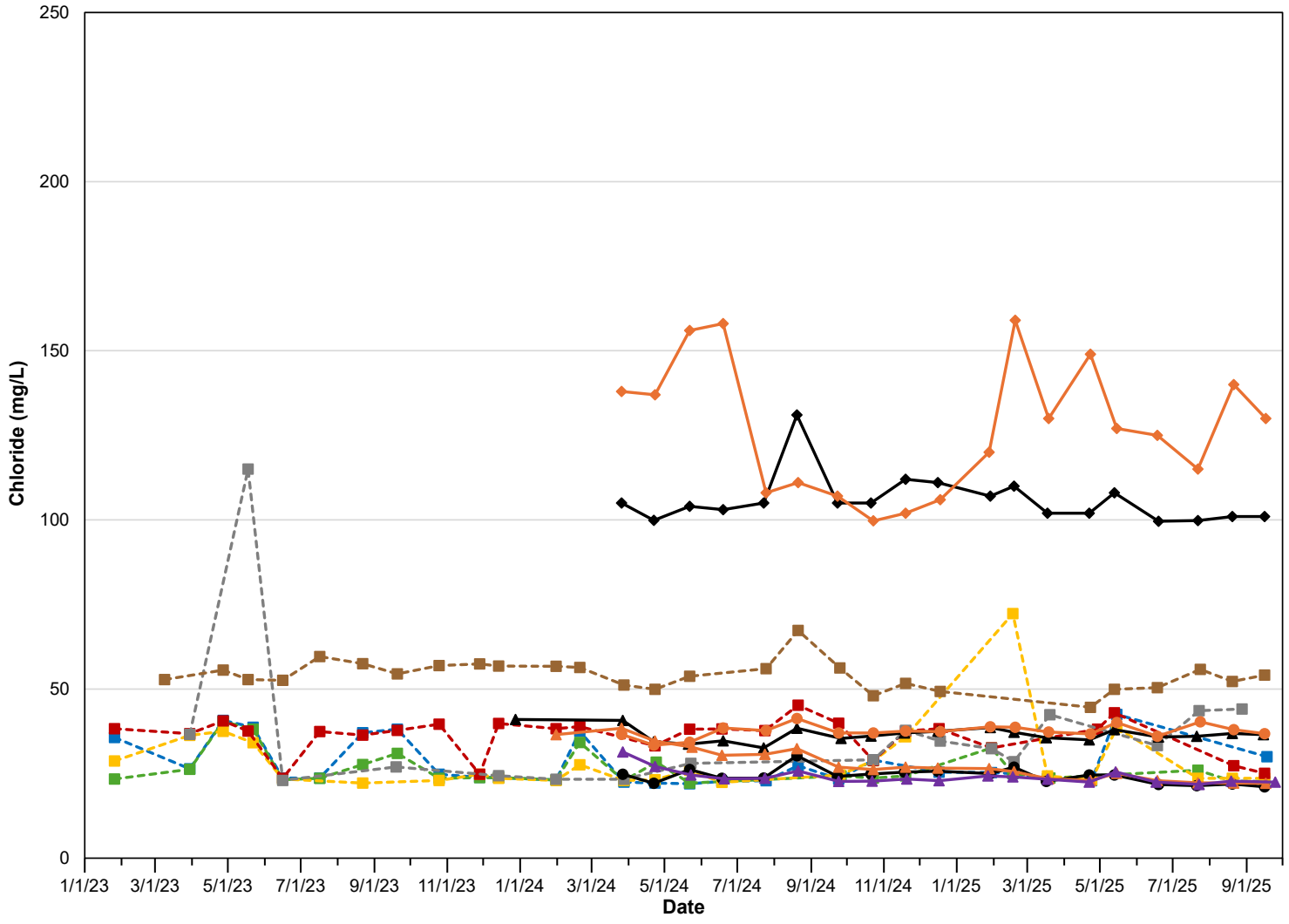
- Surface Water Sample Location (non-bubble site)
- Bubble Site Water/Gas Sample Location
- Sheen Sample Location
- Westlake Property

Notes:
Nov 2024 aerial imagery via Google Earth.

Figure 2
Bubble Site Sampling Locations
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; GCS North American 1983

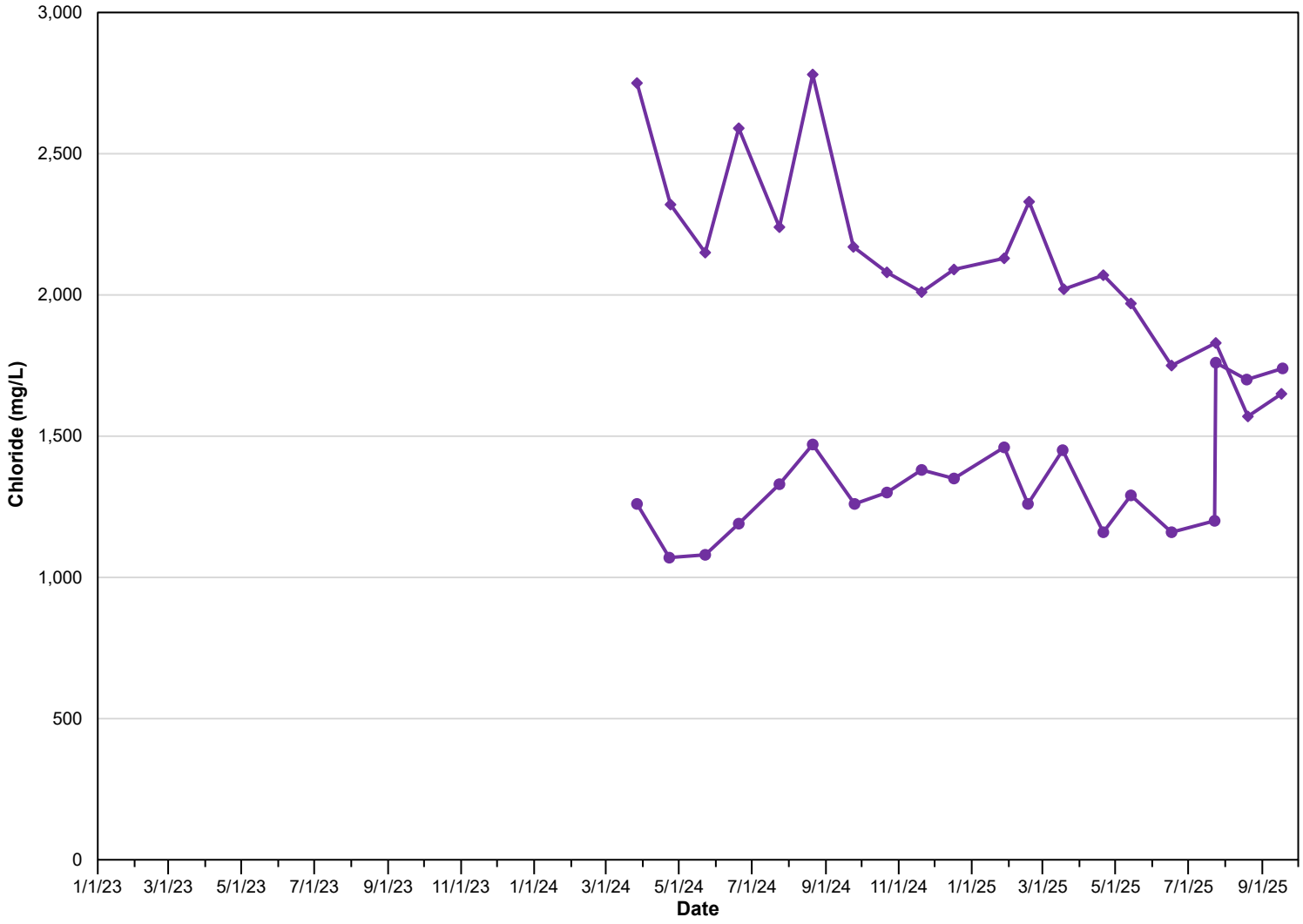


Legend

- 019-580
- 019-582
- 019-995
- 019-1055
- 019-1603
- 019-17636Z (Cottages)
- MW-1-200
- MW-1-500
- MW-1-700
- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200

Figure 3
Groundwater Chloride Trend
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM

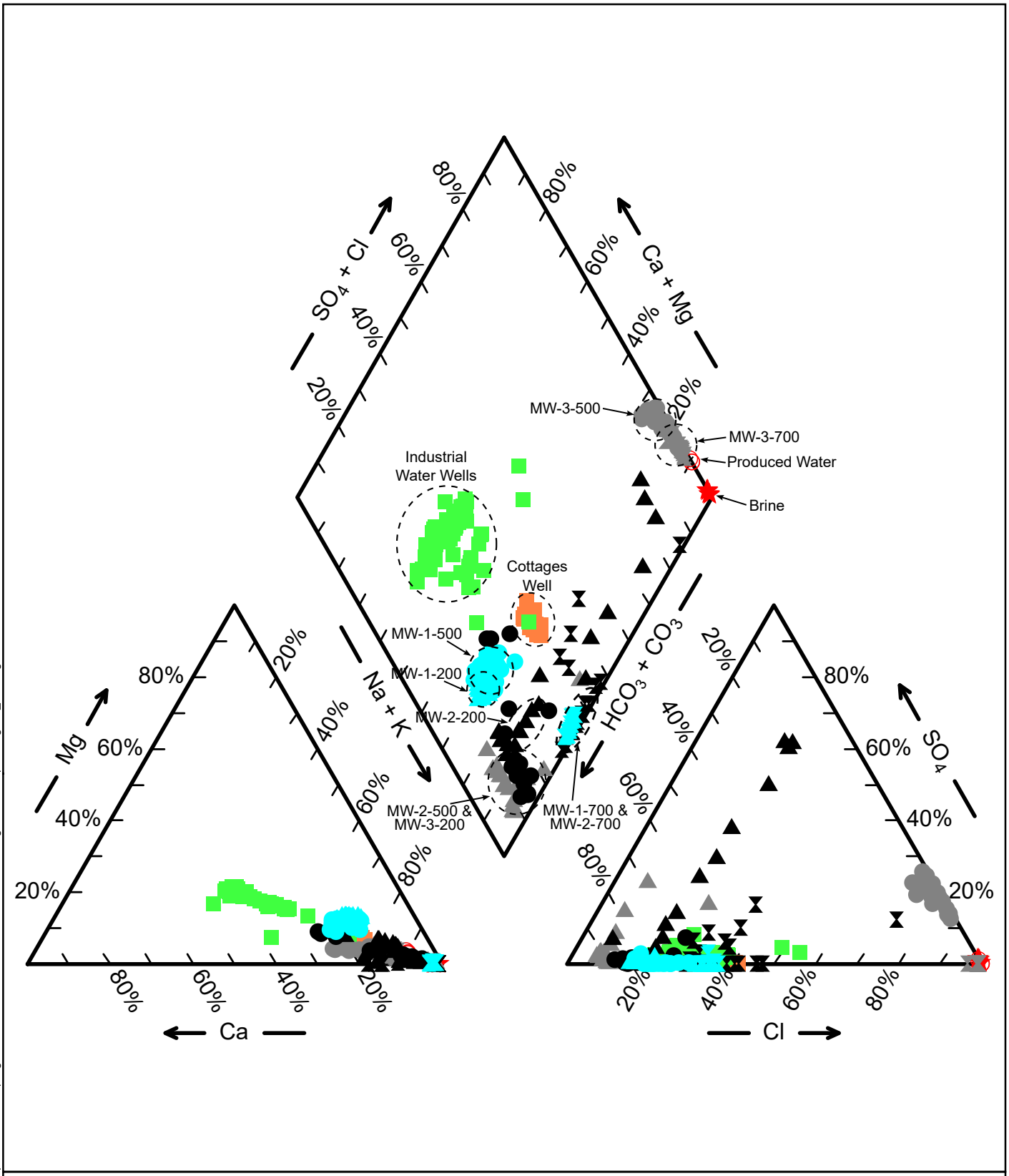


Legend

- MW-3-500
- MW-3-700

Figure 4
Groundwater Chloride Trend
MW-3-500 & MW-3-700
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM



Legend

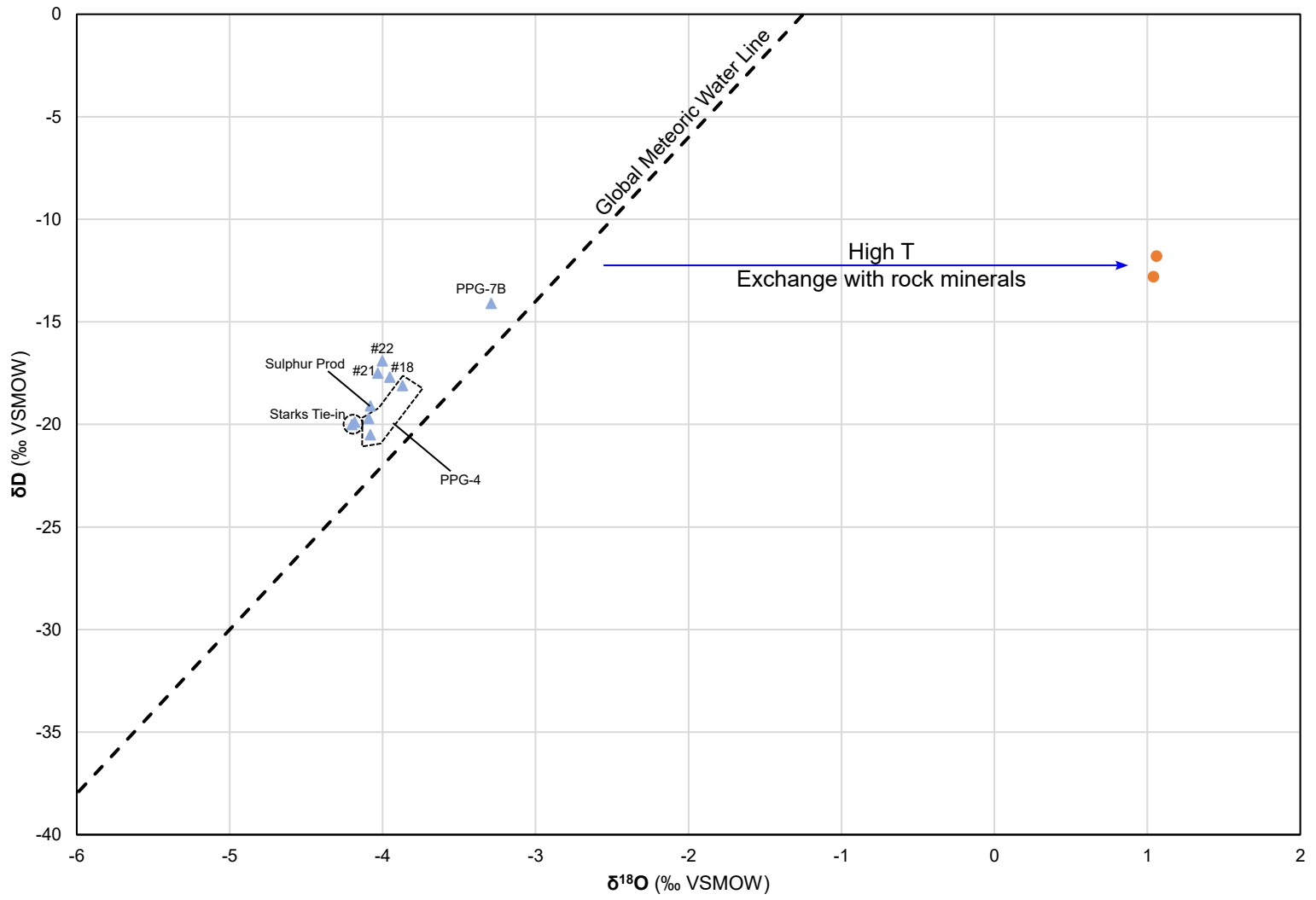
- Industrial Water Well
- Cottages Well
- Produced Water
- Brine
- MW-1-200
- MW-1-500
- MW-1-700
- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200
- MW-3-500
- MW-3-700

Figure 5
Groundwater Piper Diagram
Sulphur Dome
Westlake US 2, LLC
Calcacieu Parish, Louisiana

ERM

DRAWN BY: SAH

P:\Projects\0677804 Eagle US 2 LLC Sulphur Dome Sampling SH\LDNR Submittals\13th Data Submittal\Figure\SVG\Piper Diagram_GW.svg, REVISED: 10/16/2025



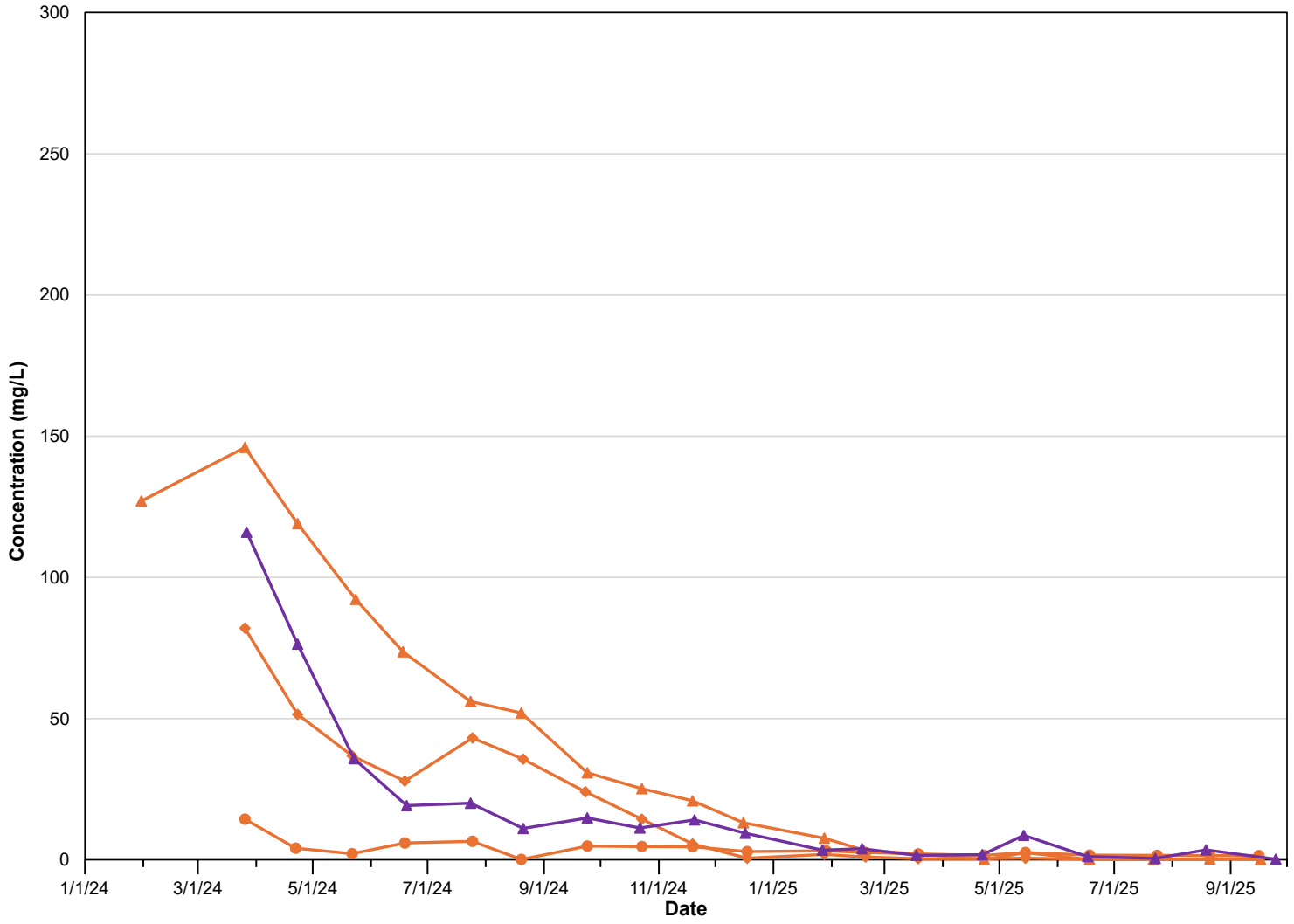
Legend

- Produced Water
- Brine

Notes:
Domenico, P.A. & Schwartz, F.W., 1998, Physical and Chemical Hydrogeology, 2nd ed., John Wiley & Sons, Inc.

Figure 6
Water Stable Isotopes
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM

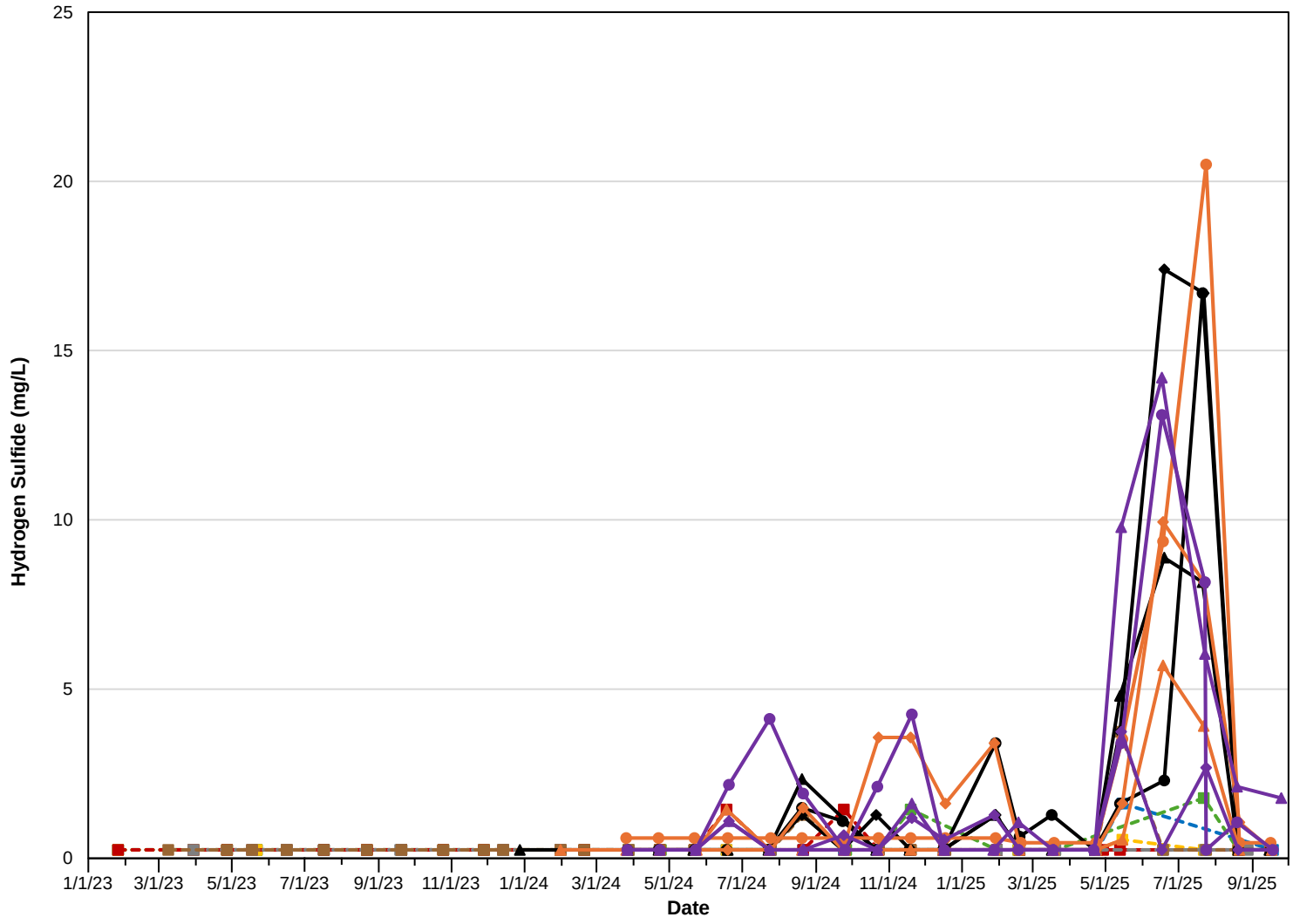


Legend

- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200

Figure 7
Groundwater Sulfate Trend
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM



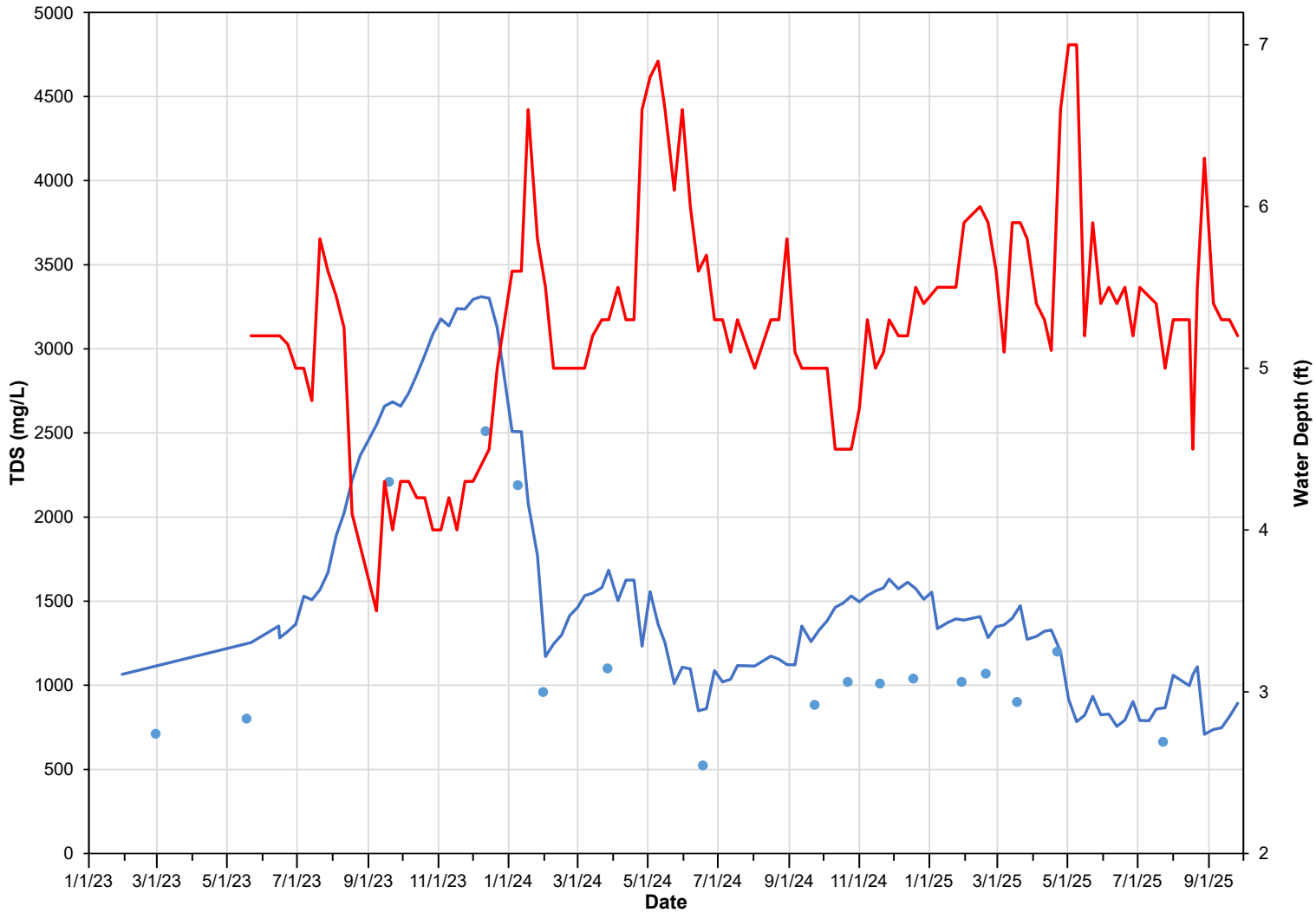
Legend

- 019-580
- 019-582
- 019-995
- 019-1055
- 019-1603
- Cottages
- MW-1-200
- MW-1-500
- MW-1-700
- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200
- MW-3-500
- MW-3-700

Figure 8
Groundwater Hydrogen SulfideTrend
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM

P:\Projects\0677804 Eagle US 2 LLC Sulphur Dome Sampling.SH\LDNR Submittals\13th Data Submittal\Figure\SVG\Central Lake TDS.svg, REVISED: 10/17/2025 DRAWN BY: TAB



Legend

- Field TDS (mg/L)
- Water Depth (ft)
- Laboratory TDS at LDNR 12 (mg/L)

Notes:
Field TDS measured from approxmiately 5-ft deep with handheld Ultrameter II, which is calculated based on Specific Conductivity.

Figure 9
Central Lake TDS Trend
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\04_LDNR Submittals\13\10_Area of Fish Die-off Observation.mxd, REVISED: 10/29/2025, SCALE: 1:1,200 when printed at 8.5x11 DRAWN BY: SAH



Legend

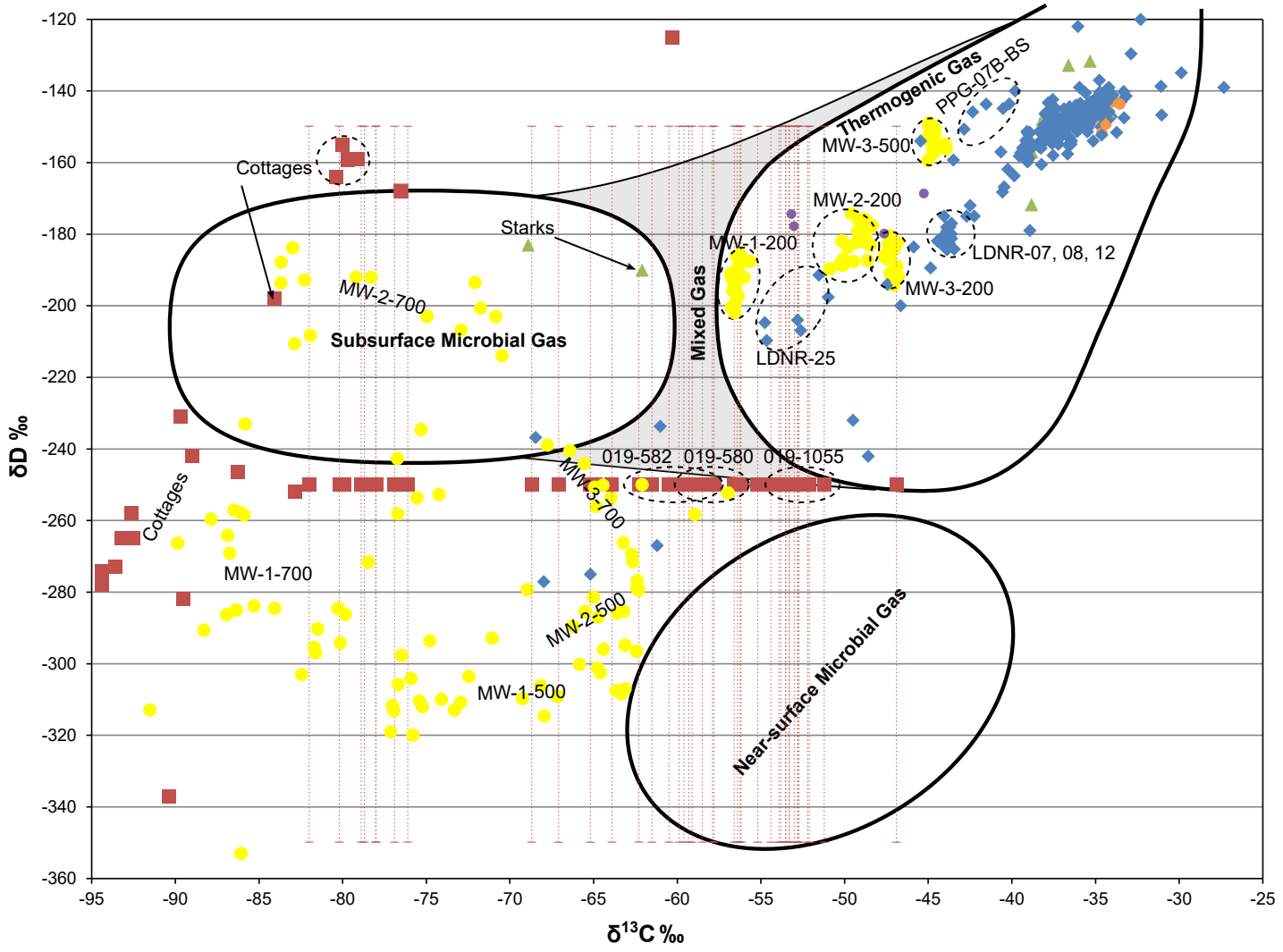
- Bubble Site Water/Gas Sample Location
- Sheen Sample Location
- Die-off Observation Area
- Westlake Property

Notes:
Nov 2024 aerial imagery via Google Earth.

Figure10
Area of Fish Die-off Observation
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; GCS North American 1983



Legend

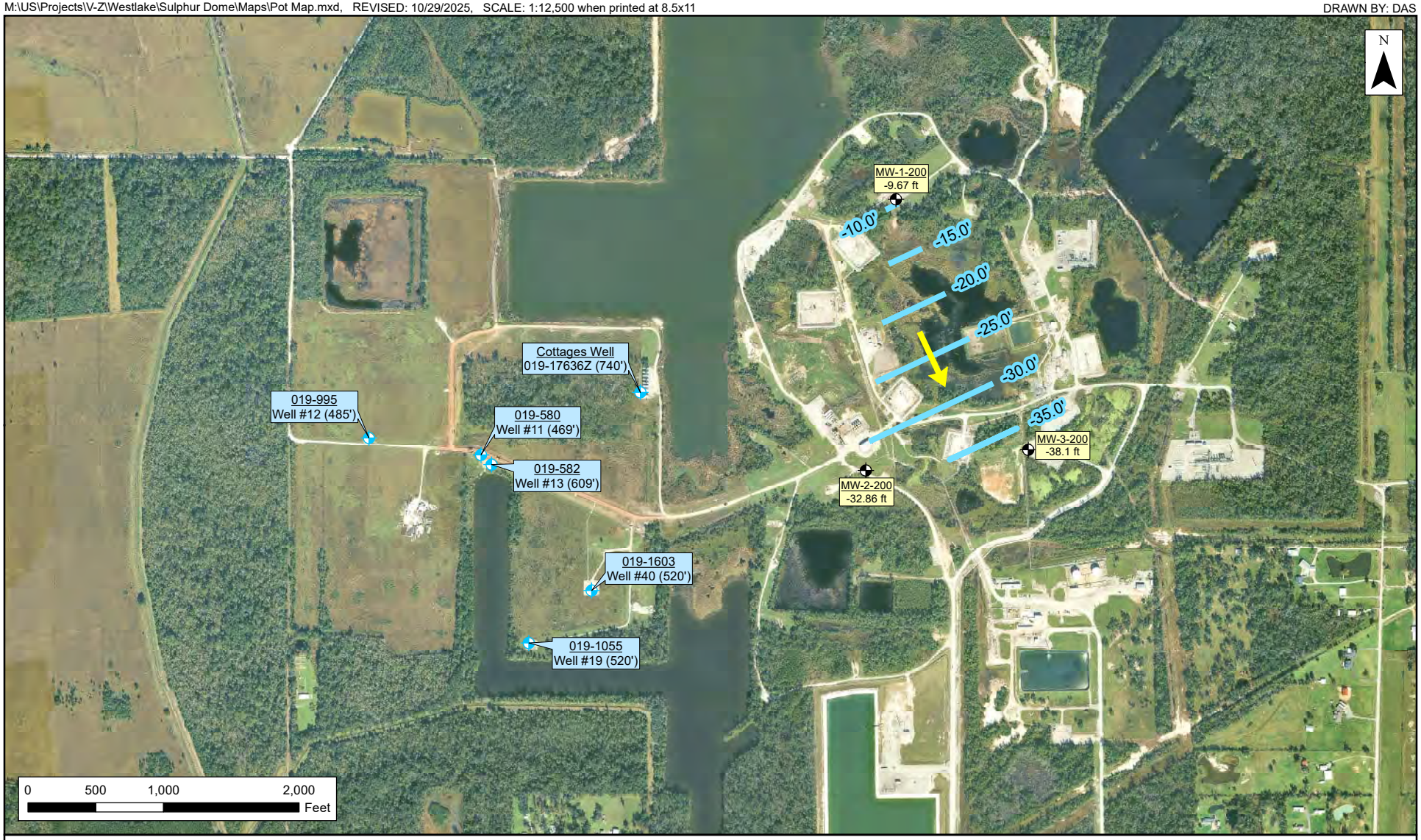
- Cavern Gas (Lonquist)
- Bubble Site
- Groundwater
- Monitoring Well
- Brine
- Production Gas

Notes:
If δD is not analyzed due to insufficient methane in sample δD is assumed at -250‰ with error bars added.
Coleman, D.D., Liu, C., Hackley, K.C., and Pelphrey, S.R., 1995, Identification of Landfill Methane, Environmental Geosciences, Vol. 2, No. 2, pp. 95-103.

Figure 11
Methane Isotopes
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "200-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (5 ft)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 12
Potentiometric Surface Map - July 2025
"200-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "500-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft)

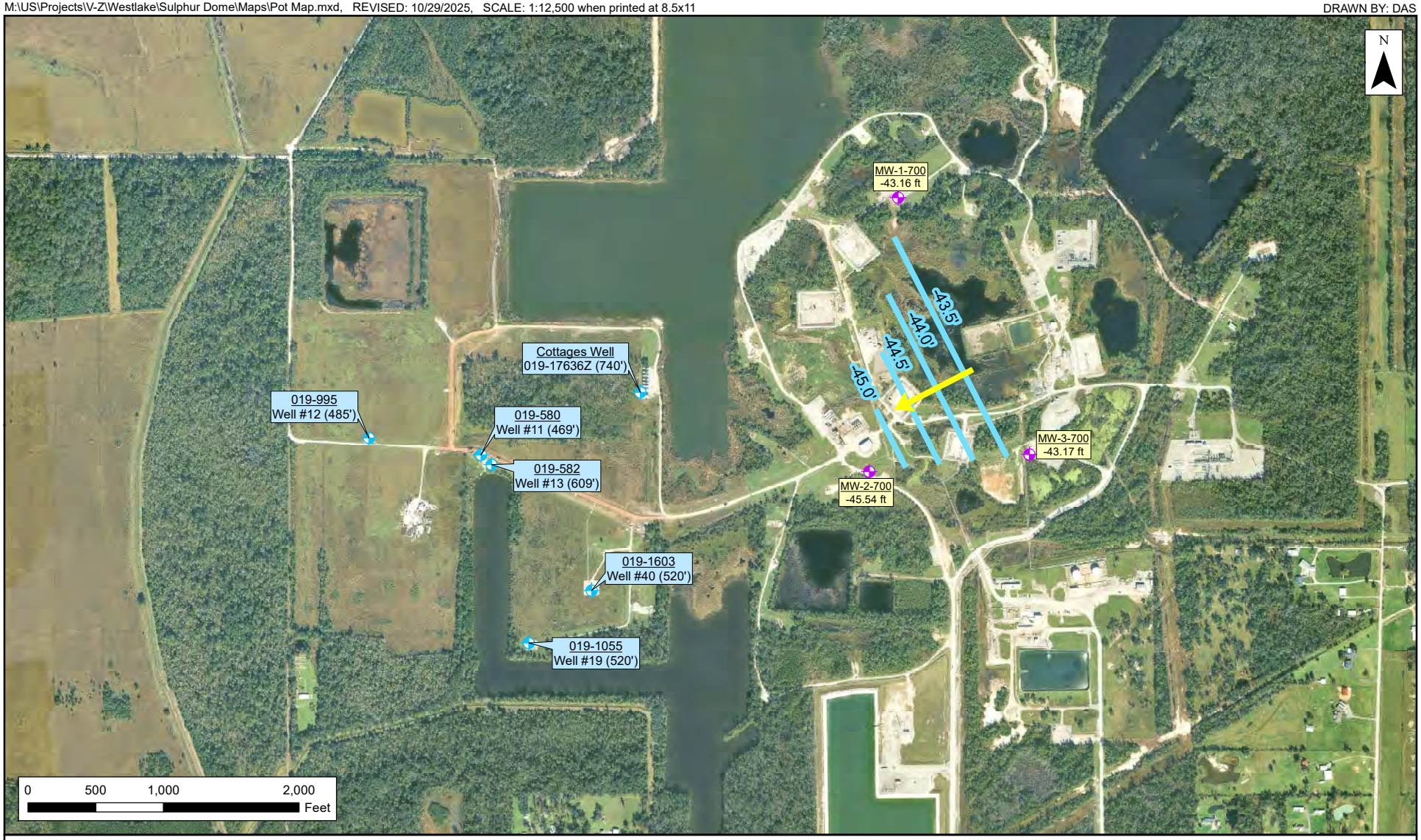
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 13
Potentiometric Surface Map - July 2025
"500-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "700-foot" Sand Monitoring Well
- General Direction of Groundwaer Flow
- Potentiometric Surface Contour (0.5 ft)

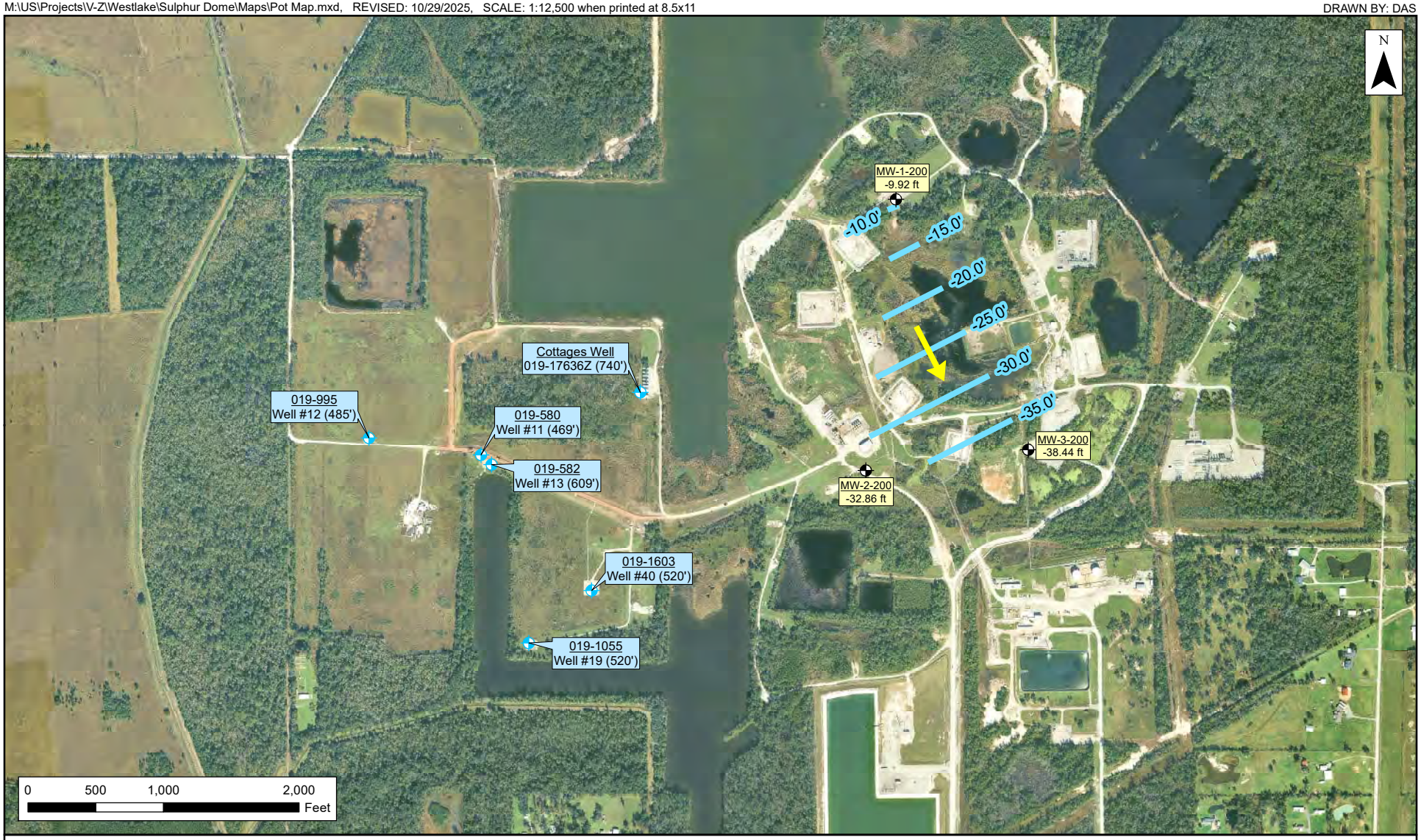
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 14
Potentiometric Surface Map - July 2025
"700-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "200-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (5 ft)

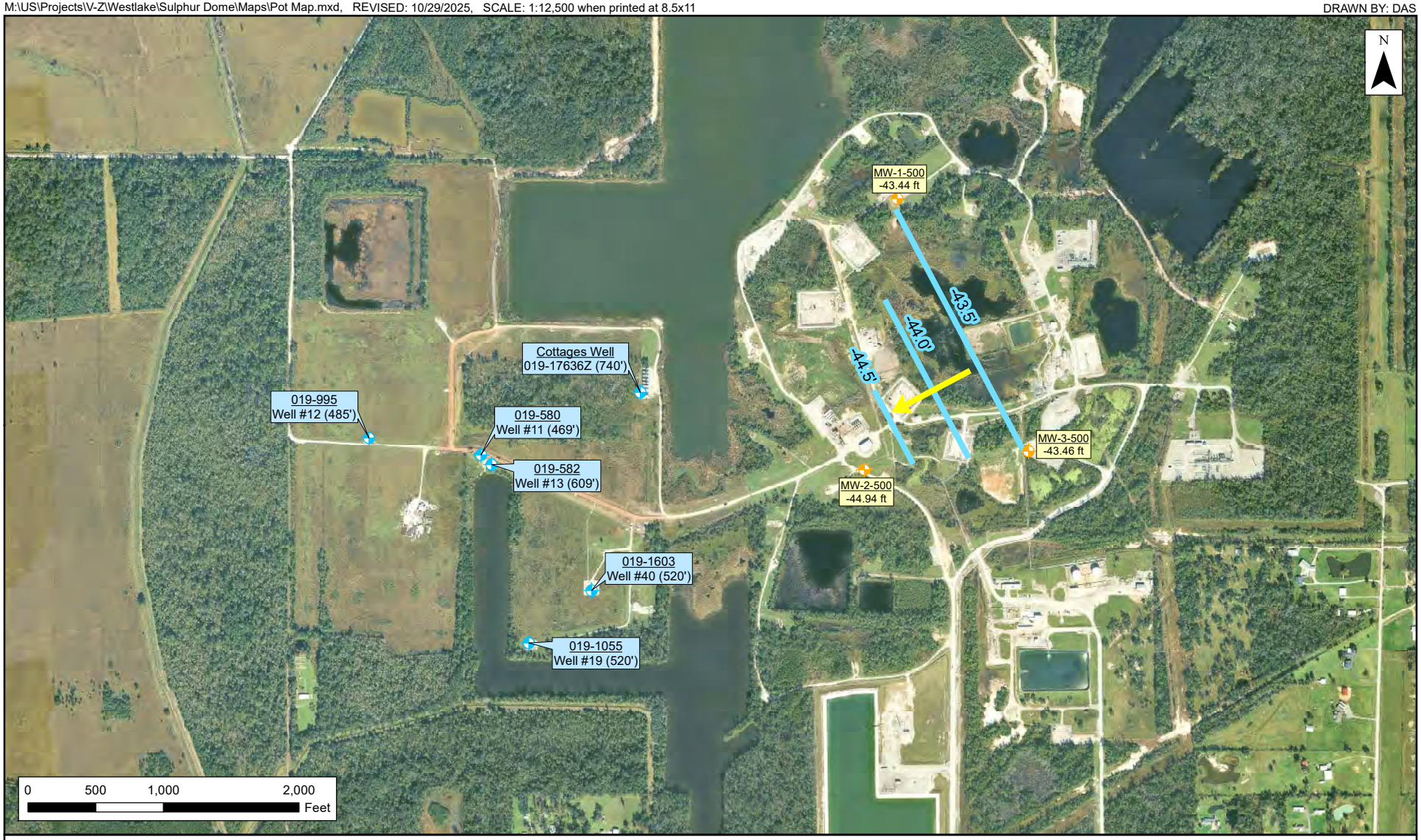
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 15
Potentiometric Surface Map - August 2025
"200-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "500-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft)

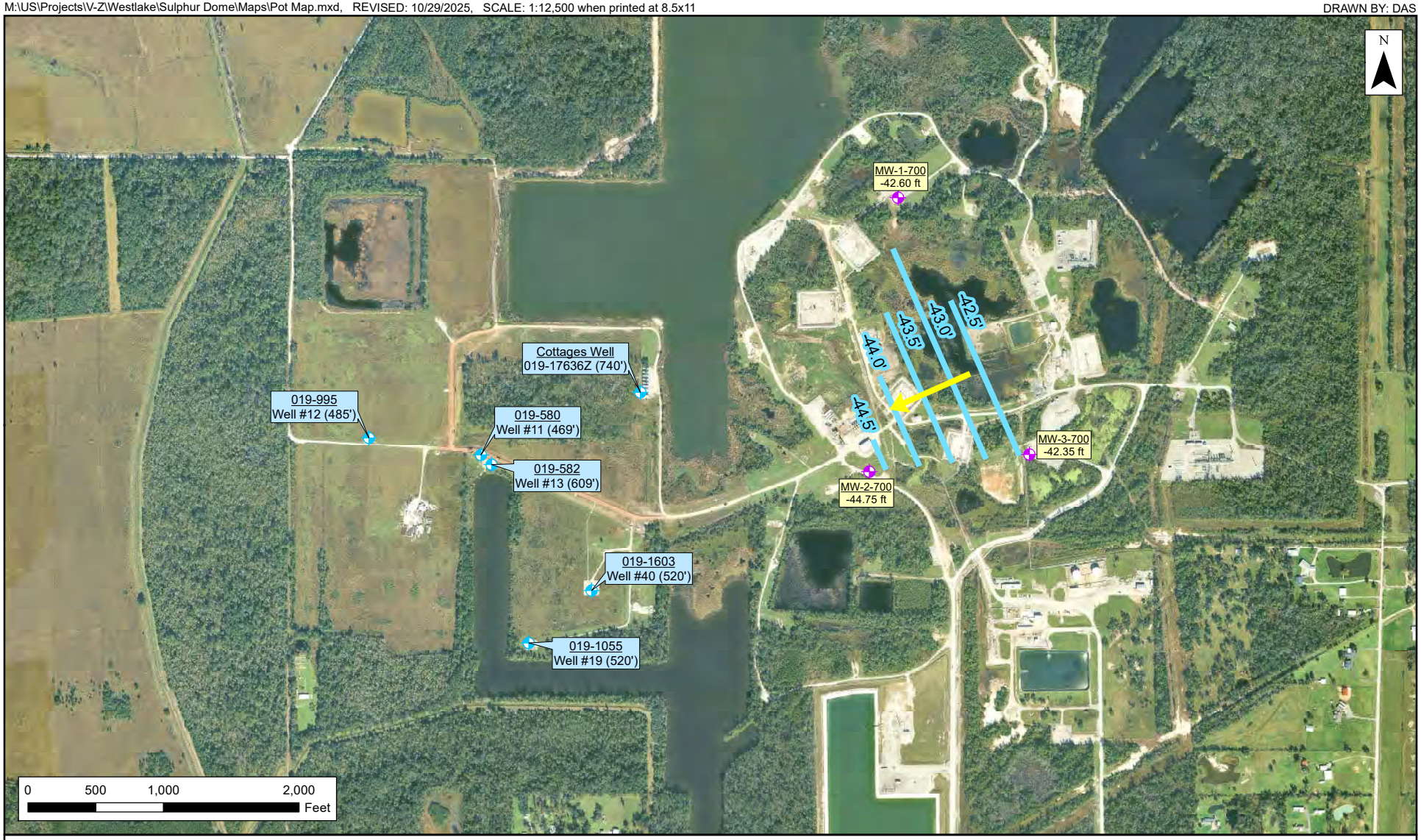
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 16
Potentiometric Surface Map - August 2025
"500-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "700-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft)

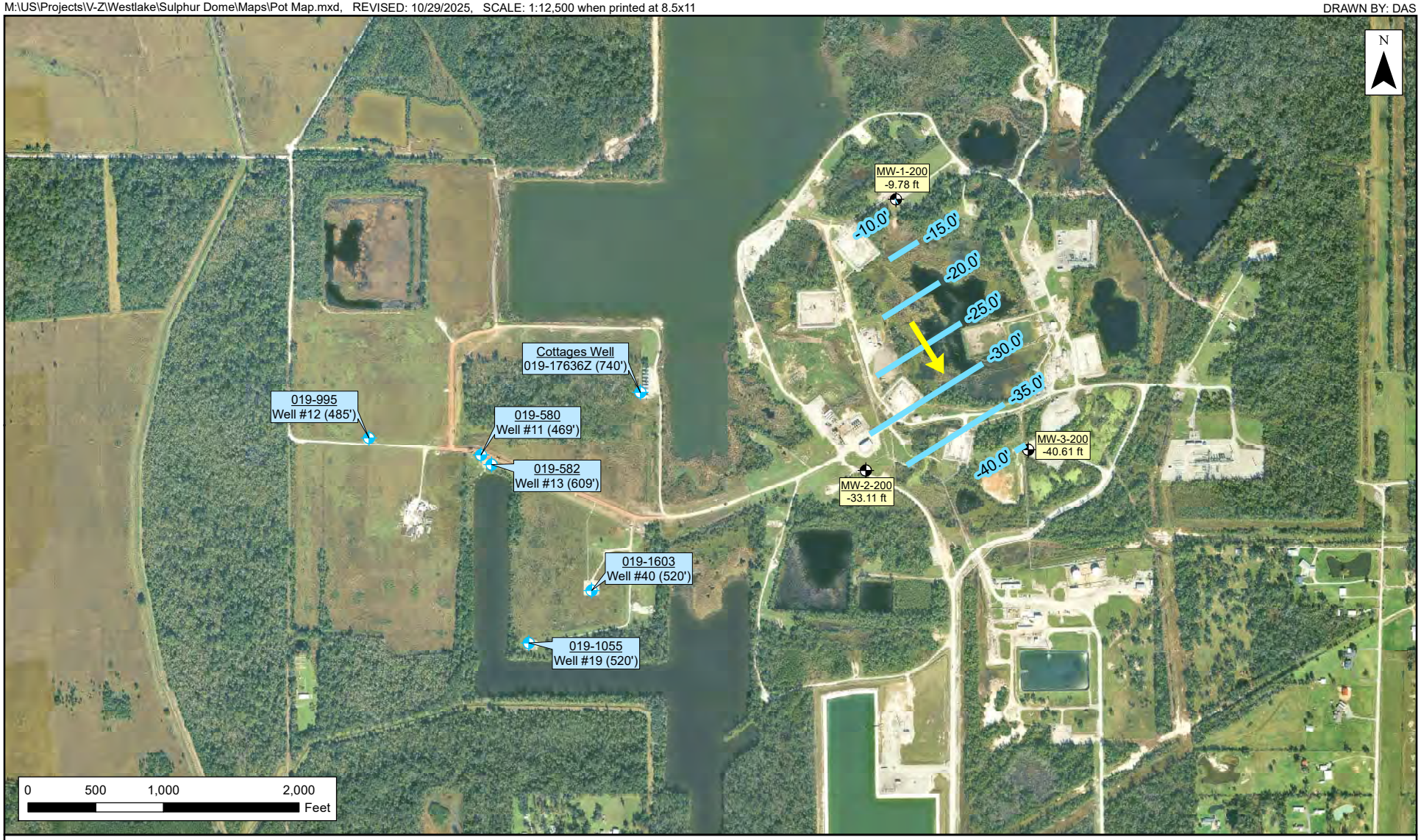
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 17
Potentiometric Surface Map - August 2025
"700-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "200-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 18
Potentiometric Surface Map - September 2025
"200-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

- Water Well Sample Location
- "500-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft)

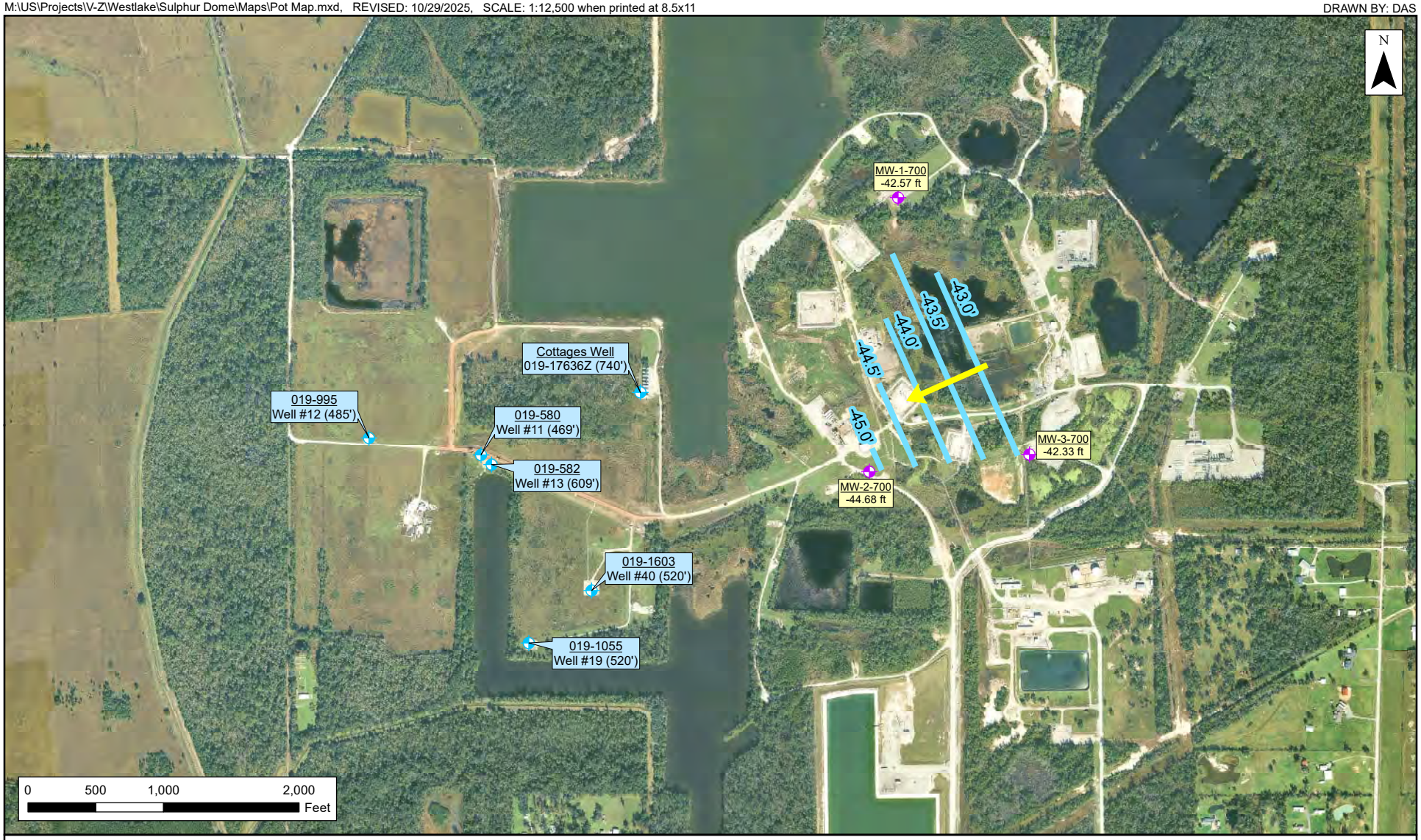
Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.
[a] - Water level collected prior to sampling.

Figure 19
Potentiometric Surface Map - September 2025
"500-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

M:\US\Projects\V-Z\Westlake\Sulphur Dome\Maps\Pot Map.mxd, REVISED: 10/29/2025, SCALE: 1:12,500 when printed at 8.5x11 DRAWN BY: DAS



Legend

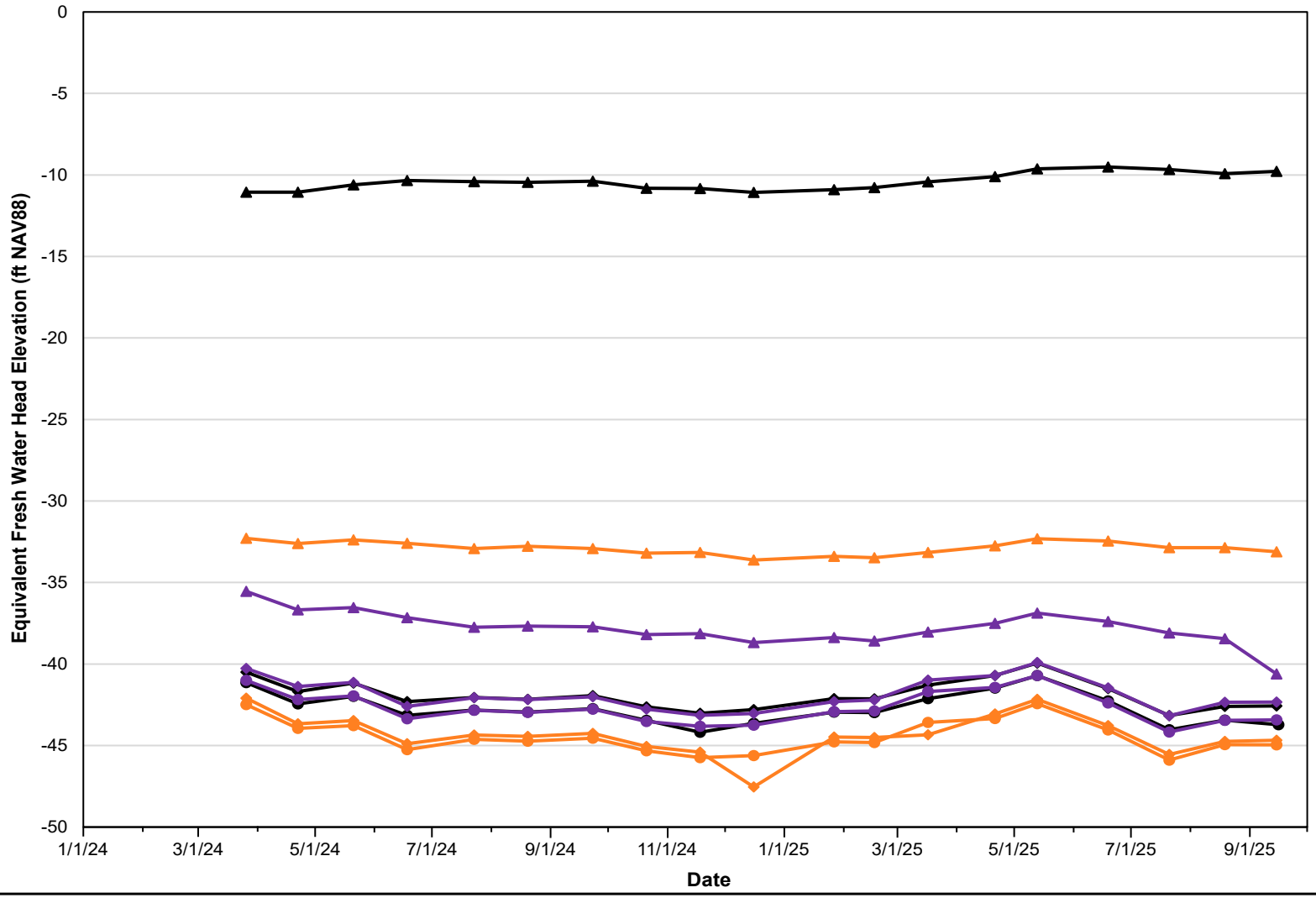
- Water Well Sample Location
- "700-foot" Sand Monitoring Well
- General Direction of Groundwater Flow
- Potentiometric Surface Contour (0.5 ft)

Notes:
Groundwater elevations adjusted to equivilent freshwater head (Post, et al., 2007)
Nov 2024 aerial imagery via Google Earth.

Figure 20
Potentiometric Surface Map - September 2025
"700-foot" Sand
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Louisiana

ERM

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N



Legend

- MW-1-200
- MW-1-500
- MW-1-700
- MW-2-200
- MW-2-500
- MW-2-700
- MW-3-200
- MW-3-500
- MW-3-700

Note:
MW-1-500 water level collected prior to sampling is used for September 2025.

Figure 21
Groundwater Hydrograph
Sulphur Dome
Westlake US 2, LLC
Calcasieu Parish, Lousiana

ERM

TABLES

LIST OF TABLES:

1 – GROUNDWATER DATA SUMMARY
2 – SURFACE WATER DATA SUMMARY
3 – CENTRAL LAKE WATER COLUMN PROFILE
4 – FISH DIE-OFF SURFACE WATER SAMPLING DATA
5 – GAS DATA SUMMARY
6 – SURVEY RESULTS AND GROUNDWATER ELEVATIONS

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

		Sample ID	019-580								019-582							
		Sample Location	WW #11								WW #13							
		Sample Interval (ft)	469'								609'							
		Sample Date	10/23/24	12/17/24	1/30/25	2/17/25	3/18/25	4/24/25	5/15/25	9/18/25	10/23/24	11/19/24	1/30/25	2/17/25	3/20/25	7/22/25	8/20/25	9/16/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**		**Industrial Water Wells**															
Total Metals		**RECAP GWSS**																
Arsenic	mg/L	0.01	<0.0004	0.000555 J	0.000404 J	<0.0004	<0.0004	0.000510 J	0.000710 J	0.000666 J	0.000580 J	0.00112 J	<0.0004	0.000702 J	0.000808 J	0.000770 J	0.000744 J	0.000629 J
Barium	mg/L	2	**0.205**	**0.201**	**0.216**	**0.204**	**0.204**	**0.209**	**0.322**	**0.220**	**0.220**	**0.224**	**0.184**	**0.216**	**0.255**	**0.199**	**0.234**	**0.221**
Calcium	mg/L	NS	**21.7**	**22.4**	**24.4**	**23.0**	**22.1**	**21.5**	**26.4**	**24.8**	**23.0**	**20.7**	**22.0**	**23.4**	**24.8**	**22.6**	**23.4**	**22.3**
Chromium	mg/L	0.1	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.000778 J	**0.00791**	0.000420 J	<0.0004	0.000415 J	<0.0004	<0.0004	0.00235 J	<0.00173	<0.00173
Iron[a]	mg/L	0.3	**3.63**	**3.58**	**3.74**	**3.71**	**3.27**	**3.99**	**10.7**	**5.04**	**12.0**	**13.0**	**10.6**	**9.10**	**12.1**	**3.33**	**3.37**	**3.28**
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	**0.0617**	0.00109 J	<0.0006	<0.0006	0.000824 J	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047
Magnesium	mg/L	NS	**6.77**	**7.32**	**7.51**	**6.95**	**6.84**	**6.78**	**7.70**	**7.91**	**7.50**	**6.47**	**6.79**	**6.95**	**7.68**	**7.00**	**7.66**	**7.02**
Manganese[a]	mg/L	0.05	**0.355**	**0.355**	**0.357**	**0.352**	**0.343**	**0.344**	**0.419**	**0.488**	**0.510**	**0.365**	**0.401**	**0.374**	**0.342**	**0.359**	**0.385**	**0.377**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	0.0000400 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.0000390 J	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	**0.00408**	**0.00790**	0.000762 J	<0.0006	<0.0006	0.000722 J	0.000845 J	0.00170 J	<0.0013	<0.0013
Potassium	mg/L	NS	**2.96**	**2.57**	**2.65**	**2.52**	**2.46**	**2.38**	**2.68**	**2.75**	**2.58**	**2.33**	**2.70**	**2.52**	**2.79**	**2.54**	**2.67**	**2.43**
Sodium	mg/L	NS	**43.1**	**24.5**	**25.7**	**23.6**	**24.1**	**23.0**	**30.2**	**28.4**	**25.7**	**22.0**	**30.6**	**23.8**	**26.7**	**25.0**	**26.5**	**23.7**
Strontium	mg/L	NS	**0.185**	**0.195**	**0.235**	**0.216**	**0.195**	**0.203**	**0.251**	**0.219**	**0.213**	**0.194**	**0.198**	**0.227**	**0.229**	**0.203**	**0.214**	**0.201**
Vanadium	mg/L	0.026	0.00245 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	**0.00914**	**0.00622**	0.00296 J	<0.002	0.00354 J	0.00287 J	**0.0331**	**0.0164**	**0.0143**	**0.00680**	0.00394 J	**0.00415**	**0.00526**	**0.00552**	0.00565 J	0.00647 J
Anions/Water Quality Parameters																		
Bicarbonate Alkalinity	mg/L	NS	**129**	**119**	**124**	**130**	**114**	**112**	**120**	**104**	**112**	**110**	**134**	**118**	**154**	**115**	**104**	**111**
Bromide	mg/L	NS	**0.110**	<0.03	0.0353 J	<0.03	<0.03	<0.03	**0.103**	<0.03	**0.126**	0.0976 J	0.0999 J	0.0373 J	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	NS	<3	<3	<3	<3	<3	<3	<3	<1.2	<3	<3	<3	<3	<3	<1.2	<1.2	<1.2
Chloride[a]	mg/L	250	**29.0**	**25.4**	**25.3**	**25.0**	**23.5**	**22.9**	**42.5**	**30.0**	**23.7**	**24.3**	**32.6**	**25.1**	**23.7**	**26.0**	**22.8**	**22.7**
Sulfate[a]	mg/L	250	**2.71**	**5.36**	**4.47**	**4.68**	**3.62**	**3.30**	**2.68**	**3.33**	**0.572**	**3.06**	<0.2	**3.44**	**3.12**	**3.39**	**3.26**	**3.27**
Total Dissolved Solids (TDS)[a]	mg/L	500	**244**	**330**	**226**	**266**	**248**	**218**	**240**	**440**	**194**	**188**	**244**	**2,640**	**172**	**212**	**218**	**192**
pH[a]	SI	6.5 - 8.5	7.62 H	7.20 H	7.59 H	6.87 H	7.44 H	7.25 H	7.12 H	7.21 H	7.28 H	7.30 H	7.49 H	7.58 H	7.03 H	7.27 H	7.81 H	7.25 H
pH (field)	SI	6.5 - 8.5	NA	NA	**6.68**	**6.40**	**7.11**	**7.62**	**7.10**	**6.06**	NA	NA	**6.21**	**6.03**	**6.27**	**5.95**	**6.19**	**6.25**
Sulfides																		
Hydrogen Sulfide	mg/L	NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.62[c]	<0.5	<0.5	**1.44**	<0.5	<0.5	<0.5	**1.78**	<0.5	<0.5
Sulfide	mg/L	NS	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	1.52 J[c]	<0.92	<1.2	1.36 J	<1.2	<0.92	<0.92	1.68 J	<0.92	<0.92
Volatile Organic Compounds																		
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092
TPH Fractions																		
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	<0.025	<0.025	<0.025	<0.025	0.0636 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes																		
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units	Sample ID	019-995								019-1055							
		Sample Location	WW #12								WW #19							
		Sample Interval (ft)	485'								520'							
		Sample Date	10/23/24	11/19/24	2/17/25	3/18/25	4/24/25	5/15/25	7/22/25	8/20/25	9/16/25	10/23/24	11/19/24	12/17/24	1/30/25	4/29/25	5/13/25	8/21/25	9/16/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
			Industrial Water Wells																
Total Metals		**RECAP GWSS**																	
Arsenic	mg/L	0.01	0.000405 J	0.00121 J	0.000680 J	0.000661 J	0.000864 J	0.000716 J	0.000606 J	0.000578 J	0.000661 J	0.000811 J	0.000936 J	0.000479 J	<0.0004	0.000492 J	0.000435 J	0.000778 J	0.000577 J
Barium	mg/L	2	**0.181**	**0.237**	**0.197**	**0.214**	**0.180**	**0.220**	**0.202**	**0.220**	**0.234**	**0.207**	**0.256**	**0.240**	**0.256**	**0.266**	**0.236**	**0.223**	**0.217**
Calcium	mg/L	NS	**18.9**	**25.9**	**24.7**	**23.5**	**21.3**	**25.6**	**23.3**	**23.3**	**26.4**	**22.6**	**25.5**	**25.7**	**27.0**	**26.9**	**25.6**	**25.1**	**24.3**
Chromium	mg/L	0.1	0.000435 J	0.000455 J	**0.00875**	<0.0004	<0.0004	<0.0004	<0.0004	<0.00173	<0.00173	0.00111 J	0.000728 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.00173	<0.00173
Iron[a]	mg/L	0.3	**3.61**	**1.73**	**1.97**	**3.49**	**0.686**	**2.71**	**3.37**	**3.31**	**3.80**	**1.33**	**3.60**	**3.63**	**3.69**	**3.59**	**3.33**	**0.642**	**1.34**
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047
Magnesium	mg/L	NS	**5.87**	**7.94**	**7.33**	**7.11**	**6.67**	**7.59**	**7.22**	**7.47**	**8.19**	**7.12**	**7.98**	**7.94**	**8.05**	**8.02**	**7.43**	**8.23**	**7.60**
Manganese[a]	mg/L	0.05	**0.283**	**0.320**	**0.340**	**0.345**	**0.334**	**0.364**	**0.338**	**0.344**	**0.388**	**0.338**	**0.372**	**0.371**	**0.353**	**0.375**	**0.344**	**0.321**	**0.373**
Mercury	mg/L	0.002	<0.00003	<0.00003	0.0000360 J	0.0000400 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	<0.0006	<0.0006	**0.00910**	0.000713 J	<0.0006	<0.0006	<0.0006	<0.0013	<0.0013	0.00128 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0013	<0.0013
Potassium	mg/L	NS	**2.68**	**2.78**	**2.70**	**2.39**	**2.32**	**2.63**	**2.41**	**2.55**	**2.69**	**3.12**	**2.78**	**2.74**	**2.67**	**2.74**	**2.58**	**2.86**	**2.56**
Sodium	mg/L	NS	**37.4**	**31.5**	**39.4**	**23.3**	**23.3**	**28.8**	**23.8**	**24.9**	**26.2**	**40.8**	**31.2**	**30.0**	**31.0**	**30.5**	**28.6**	**31.6**	**25.8**
Strontium	mg/L	NS	**0.162**	**0.238**	**0.225**	**0.212**	**0.200**	**0.237**	**0.202**	**0.205**	**0.225**	**0.208**	**0.239**	**0.225**	**0.262**	**0.250**	**0.233**	**0.229**	**0.219**
Vanadium	mg/L	0.026	0.00412 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	<0.002	0.00297 J	0.00342 J	<0.002	**0.00628**	<0.002	<0.002	<0.003	<0.003	**0.0102**	**0.00524**	**0.0117**	**0.0152**	0.00383 J	**0.00732**	0.00501 J	0.00565 J
Anions/Water Quality Parameters																			
Bicarbonate Alkalinity	mg/L	NS	**132**	**128**	**95.8**	**142**	**116**	**120**	**116**	**109**	**114**	**124**	**127**	**121**	**131**	**135**	**116**	**116**	**115**
Bromide	mg/L	NS	**0.103**	**0.108**	<0.03	<0.03	**0.232**	0.0994 J	<0.03	<0.03	<0.03	**0.106**	**0.101**	<0.03	0.0560 J	**0.108**	**0.102**	<0.03	<0.03
Carbonate Alkalinity	mg/L	NS	<3	<3	<3	<3	<3	<3	<1.2	<1.2	<1.2	<3	<3	<3	<3	<3	<3	<1.2	<1.2
Chloride[a]	mg/L	250	**28.8**	**35.9**	**72.3**	**24.3**	**23.1**	**38.6**	**23.6**	**23.6**	**23.6**	**28.9**	**37.6**	**38.3**	**41.5**	**38.1**	**43.0**	**27.3**	**25.1**
Sulfate[a]	mg/L	250	**3.61**	**3.07**	**5.83**	**3.55**	**3.34**	**3.18**	**3.29**	**3.26**	**3.10**	**3.32**	**4.13**	**4.42**	**3.94**	**3.09**	**3.43**	**2.83**	**2.85**
Total Dissolved Solids (TDS)[a]	mg/L	500	**226**	**224**	**198**	**286**	**284**	**228**	**250**	**192**	**190**	**240**	**578**	**324**	**254**	**288**	**256**	**290**	**188**
pH[a]	SI	6.5 - 8.5	7.37 H	7.27 H	6.38 H	7.15 H	7.21 H	7.05 H	7.30 H	**7.73**	7.28 H	7.35 H	6.98 H	6.87 H	7.57 H	6.97 H	7.74 H	7.65 H	7.34 H
pH (field)	SI	6.5 - 8.5	NA	NA	**6.02**	**6.83**	**7.27**	**6.76**	**6.14**	**6.20**	**6.07**	NA	NA	NA	**7.26**	NM	**5.10**	**6.49**	**6.33**
Sulfides																			
Hydrogen Sulfide	mg/L	NS	<0.5	<0.5	<0.5	<0.5	<0.5	0.552 J[c]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5[c]	<0.5	<0.5
Sulfide	mg/L	NS	<1.2	<1.2	<0.92	<0.92	<0.92	<0.92[c]	<0.92	<0.92	<0.92	<1.2	<1.2	<1.2	<1.2	<0.92	<0.92[c]	<0.92	<0.92
Volatile Organic Compounds																			
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00032	<0.00032	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092
TPH Fractions																			
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	0.0338 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	0.0352 J	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes																			
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units		Sample ID	019-1603								019-17636Z								
			Sample Location	WW #40								Cottages Well								
			Sample Interval (ft)	520'								740'								
			Sample Date	10/23/24	11/19/24	12/18/24	1/30/25	2/18/25	3/20/25	6/18/25	7/23/25	8/28/25	10/23/24	11/19/24	12/18/24	4/23/25	5/13/25	6/18/25	7/24/25	8/20/25	9/16/25
			Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
				Industrial Water Wells																	
Total Metals		**RECAP GWSS**																		
Arsenic	mg/L	0.01	<0.0004	0.000905 J	<0.0004	<0.0004	0.000574 J	<0.0004	<0.0004	<0.0004	<0.00051	0.00100 J	0.00162 J	**0.00228**	<0.0004	<0.0004	<0.0004	0.000428 J	<0.00051	<0.00051
Barium	mg/L	2	**0.201**	**0.199**	**0.205**	**0.170**	**0.196**	**0.193**	**0.207**	**0.236**	**0.254**	**0.216**	**0.217**	**0.201**	**0.200**	**0.187**	**0.182**	**0.184**	**0.209**	**0.205**
Calcium	mg/L	NS	**20.9**	**22.8**	**22.9**	**19.2**	**20.7**	**25.8**	**23.0**	**24.3**	**26.0**	**15.9**	**15.3**	**15.6**	**15.0**	**15.1**	**15.3**	**13.6**	**15.4**	**14.9**
Chromium	mg/L	0.1	<0.0004	0.000568 J	0.000446 J	<0.0004	0.00237 J	<0.0004	<0.0004	0.000570 J	<0.00173	0.00214 J	**0.00401**	**0.0113**	<0.0004	0.000423 J	<0.0004	**0.0139**	<0.00173	<0.00173
Iron[a]	mg/L	0.3	**3.15**	**3.82**	**3.43**	**2.84**	**2.76**	**9.92**	**3.40**	**3.61**	**3.70**	**12.8**	**10.2**	**14.3**	**2.67**	**2.10**	**5.13**	**4.21**	**3.27**	**8.00**
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	<0.0006	0.00124 J	<0.0006	<0.0006	0.000626 J	**0.00388**	<0.0047	<0.0047
Magnesium	mg/L	NS	**6.52**	**7.31**	**7.16**	**5.76**	**5.92**	**7.99**	**7.13**	**7.46**	**8.23**	**4.29**	**4.22**	**4.20**	**3.48**	**3.94**	**4.22**	**3.69**	**4.43**	**4.11**
Manganese[a]	mg/L	0.05	**0.302**	**0.324**	**0.314**	**0.250**	**0.297**	**0.619**	**0.313**	**0.342**	**0.351**	**0.358**	**0.263**	**0.279**	**0.205**	**0.195**	**0.186**	**0.170**	**0.210**	**0.240**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.0000310 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	<0.0006	0.000642 J	<0.0006	**0.00497**	<0.0006	<0.0006	<0.0006	<0.0006	<0.0013	**0.00704**	**0.00979**	**0.0198**	<0.0006	<0.0006	**0.00334**	**0.00556**	<0.0013	<0.0013
Potassium	mg/L	NS	**2.97**	**3.13**	**3.05**	**2.52**	**2.68**	**3.22**	**3.13**	**3.13**	**3.32**	**2.30**	**2.40**	**2.38**	**1.86**	**2.21**	**2.44**	**2.19**	**2.51**	**2.30**
Sodium	mg/L	NS	**41.2**	**48.2**	**39.0**	**32.7**	**33.7**	**43.9**	**40.0**	**39.8**	**43.3**	**65.6**	**66.9**	**63.0**	**58.4**	**57.0**	**70.5**	**71.0**	**78.2**	**75.1**
Strontium	mg/L	NS	**0.179**	**0.205**	**0.198**	**0.178**	**0.184**	**0.225**	**0.197**	**0.225**	**0.231**	**0.178**	**0.184**	**0.172**	**0.165**	**0.170**	**0.171**	**0.160**	**0.178**	**0.171**
Vanadium	mg/L	0.026	0.00390 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	**0.00878**	**0.0202**	**0.0358**	**0.00770**	**0.0222**	**0.0102**	**0.0136**	**0.0101**	**0.0102**	**0.134**	**0.264**	**0.786**	**0.0637**	**0.0149**	**0.277**	**3.65**	**0.0756**	**0.273**
Anions/Water Quality Parameters																				
Bicarbonate Alkalinity	mg/L	NS	**136**	**158**	**127**	**129**	**133**	**122**	**130**	**122**	**122**	**136**	**133**	**134**	**128**	**124**	**133**	**141**	**136**	**142**
Bromide	mg/L	NS	**0.106**	<0.03	0.0601 J	0.0301 J	<0.03	0.0938 J	0.0937 J	**0.100**	<0.03	**0.144**	**0.146**	**0.106**	**0.117**	**0.107**	**0.117**	**0.128**	<0.03	0.0978 J
Carbonate Alkalinity	mg/L	NS	<3	<3	<3	<3	<3	<3	<3	<1.2	<1.2	<3	<3	<3	<3	<3	<3	<1.2	<1.2	<1.2
Chloride[a]	mg/L	250	**29.1**	**37.8**	**34.6**	**32.4**	**28.5**	**42.4**	**33.3**	**43.6**	**44.1**	**48.0**	**51.7**	**49.3**	**44.6**	**49.9**	**50.4**	**55.8**	**52.2**	**54.1**
Sulfate[a]	mg/L	250	**3.82**	**15.4**	**3.77**	**5.32**	**4.37**	0.315 J	**2.76**	**2.63**	**2.94**	0.272 J	0.288 J	<0.2	0.488 J	**0.513**	0.393 J	<0.2	0.226 J	<0.2
Total Dissolved Solids (TDS)[a]	mg/L	500	**236**	**248**	214 H	**260**	**242**	**230**	**160**	**296**	**296**	**512**	**286**	240 H	**272**	**288**	**202**	**288**	**240**	**230**
pH[a]	SI	6.5 - 8.5	7.67 H	7.15 H	6.79 H	7.83 H	8.13 H	7.41 H	7.32 H	7.43 H	7.42 H	7.88 H	7.38 H	6.99 H	8.18 H	7.52 H	7.34 H	7.43 H	8.07 H	7.37 H
pH (field)	SI	6.5 - 8.5	NA	NA	NA	**6.46**	**6.29**	**7.20**	**6.27**	**6.95**	NA	NA	NA	NA	**7.41**	**5.45**	NA	**7.40**	**6.20**	**6.39**
Sulfides																				
Hydrogen Sulfide	mg/L	NS	<0.5	<0.5	<0.5 H	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 H	<0.5	3.74[c]	<0.5	<0.5	<0.5	<0.5
Sulfide	mg/L	NS	<1.2	<1.2	<1.2 H	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92	<1.2	<1.2	<1.2 H	<0.92	3.52 J[c]	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds																				
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions																				
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	0.0362 J	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	<0.025	0.0644 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes																				
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

		Sample ID	MW-1											
		Sample Location	MW-1-200											
		Sample Interval (ft)	162-172'											
		Sample Date	10/21/24	11/18/24	12/16/24	1/29/25	2/18/25	3/17/25	4/22/25	5/13/25	6/19/25	7/21/25	8/20/25	9/15/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**		**Monitoring Wells**											
Total Metals		**RECAP GWSS**												
Arsenic	mg/L	0.01	**0.0119**	**0.0109**	**0.0108**	**0.0100**	**0.00837**	**0.00828**	**0.00770**	**0.00693**	**0.00852**	**0.00902**	**0.00829**	**0.00825**
Barium	mg/L	2	**0.259**	**0.248**	**0.279**	**0.269**	**0.238**	**0.251**	**0.234**	**0.227**	**0.277**	**0.290**	**0.275**	**0.288**
Calcium	mg/L	NS	**20.6**	**18.5**	**20.2**	**20.6**	**17.5**	**16.3**	**15.3**	**15.1**	**20.0**	**21.9**	**20.7**	**19.6**
Chromium	mg/L	0.1	0.000503 J	<0.0004	<0.0004	<0.0004	<0.0004	0.00197 J	<0.0004	<0.0004	<0.0004	0.00114 J	<0.00173	<0.00173
Iron[(a)]	mg/L	0.3	**0.374**	**0.292**	0.184 J	0.188 J	**0.225**	**0.253**	0.158 J	**0.221**	**0.398**	**0.264**	0.159 J	0.184 J
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047
Magnesium	mg/L	NS	**9.61**	**8.88**	**9.76**	**9.72**	**8.71**	**9.01**	**9.08**	**8.80**	**10.1**	**10.7**	**10.1**	**9.96**
Manganese[(a)]	mg/L	0.05	**0.0668**	**0.0574**	**0.0606**	**0.0608**	**0.0466**	**0.0342**	**0.0314**	**0.0276**	**0.0566**	**0.0607**	**0.0583**	**0.0549**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.000169 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000665 J	<0.0006	<0.0013	<0.0013
Potassium	mg/L	NS	**2.18**	**2.01**	**2.23**	**2.14**	**1.98**	**2.00**	**1.71**	**2.10**	**2.24**	**2.32**	**2.13**	**2.09**
Sodium	mg/L	NS	**97.6**	**89.5**	**101**	**97.6**	**89.7**	**91.3**	**94.5**	**96.8**	**102**	**107**	**101**	**100**
Strontium	mg/L	NS	**0.255**	**0.241**	**0.254**	**0.280**	**0.251**	**0.246**	**0.234**	**0.248**	**0.269**	**0.300**	**0.264**	**0.277**
Vanadium	mg/L	0.026	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	0.00240 J	<0.002	<0.002	**0.0143**	<0.002	0.00202 J	<0.002	<0.002	**0.00934**	0.00204 J	<0.003	<0.003
Anions/Water Quality Parameters														
Bicarbonate Alkalinity	mg/L	NS	**261**	**255**	**273**	**276**	**279**	**308**	**241**	**228**	**258**	**252**	**245**	**256**
Bromide	mg/L	NS	**0.122**	**0.119**	0.0843 J	0.0820 J	0.0704 J	<0.03	<0.03	0.0818 J	<0.03	<0.03	<0.03	0.0742 J
Carbonate Alkalinity	mg/L	NS	**10.4**	**13.0**	**8.60**	**8.80**	**17.60**	**16.2**	**27.8**	**27.4**	**11.6**	**13.8**	**10.8**	**12.4**
Chloride[(a)]	mg/L	250	**36.1**	**37.0**	**37.5**	**38.6**	**37.2**	**35.6**	**35.0**	**38.0**	**35.8**	**36.0**	**36.9**	**36.5**
Sulfate[(a)]	mg/L	250	0.434 J	0.318 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total Dissolved Solids (TDS)[(a)]	mg/L	500	**370**	**348**	**336**	**312**	**358**	**276**	**298**	**368**	**320**	**368**	**284**	**338**
pH[(a)]	SI	6.5 - 8.5	8.35 H	8.17 H	8.08 H	8.39 H	8.85 H	8.33 H	8.84 H	8.82 H	8.42 H	8.45 H	8.46 H	8.39 H
pH (field)	SI	6.5 - 8.5	**6.43**	**8.34**	**8.23**	**8.33**	**8.59**	**8.44**	**9.10**	**8.63**	**8.26**	**8.17**	**7.95**	**8.48**
Sulfides														
Hydrogen Sulfide	mg/L	NS	<0.5	<0.5	<0.5	**1.28**	<0.5	<0.5	<0.5	4.80[(c)]	**8.88**	**8.16**	<0.5	<0.5
Sulfide	mg/L	NS	<1.2	<1.2	<1.2	1.20 J	<0.92	<0.92	<0.92	4.52 J[(c)]	**8.36**	**7.68**	<0.92	<0.92
Volatile Organic Compounds														
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions														
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	0.0336 J	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.001	<0.025	<0.0333	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	**0.0214**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	**0.0255**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	**0.0138**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	**0.0130**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes														
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

		Sample ID	MW-1											
		Sample Location	MW-1-500											
		Sample Interval (ft)	503-513'											
		Sample Date	10/21/24	11/18/24	12/16/24	1/29/25	2/18/25	3/17/25	4/22/25	5/13/25	6/19/25	7/21/25	8/20/25	9/16/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**		**Monitoring Wells**											
Total Metals		**RECAP GWSS**												
Arsenic	mg/L	0.01	0.000559 J	<0.0004	<0.0004	0.000459 J	0.00102 J	0.000653 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.00051	0.000545 J
Barium	mg/L	2	**0.257**	**0.274**	**0.229**	**0.221**	**0.227**	**0.227**	**0.226**	**0.219**	**0.209**	**0.209**	**0.204**	**0.211**
Calcium	mg/L	NS	**10.6**	**9.97**	**9.07**	**12.3**	**12.4**	**12.9**	**9.18**	**9.12**	**9.18**	**9.00**	**11.5**	**12.7**
Chromium	mg/L	0.1	0.000610 J	0.000606 J	<0.0004	<0.0004	0.00281 J	0.000788 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.00173	<0.00173
Iron[(a)]	mg/L	0.3	**1.84**	**0.833**	**0.807**	**0.939**	**0.381**	**0.268**	<0.012	**0.637**	**0.770**	**0.894**	**0.791**	**0.792**
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047
Magnesium	mg/L	NS	**4.04**	**4.07**	**3.89**	**4.58**	**4.29**	**4.74**	**3.66**	**4.43**	**5.05**	**5.08**	**5.28**	**5.14**
Manganese[(a)]	mg/L	0.05	**0.0317**	**0.0238**	**0.0220**	**0.0364**	**0.0370**	**0.0330**	**0.0224**	**0.0283**	**0.0292**	**0.0327**	**0.0313**	**0.0396**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	<0.0006	<0.0006	0.000852 J	<0.0006	0.000862 J	0.00109 J	0.00103 J	<0.0006	<0.0006	<0.0006	<0.0013	<0.0013
Potassium	mg/L	NS	**4.52**	**4.68**	**4.80**	**5.35**	**5.19**	**5.68**	**7.16**	**7.46**	**8.37**	**8.63**	**8.62**	**7.96**
Sodium	mg/L	NS	**45.0**	**45.5**	**43.5**	**47.2**	**44.1**	**45.8**	**47.2**	**48.7**	**53.7**	**51.0**	**51.8**	**48.4**
Strontium	mg/L	NS	**0.234**	**0.236**	**0.213**	**0.254**	**0.245**	**0.248**	**0.220**	**0.235**	**0.233**	**0.237**	**0.244**	**0.258**
Vanadium	mg/L	0.026	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	0.00245 J	0.00216 J	0.00204 J	<0.002	0.00326 J	0.00235 J	<0.002	**0.0115**	**0.00441**	**0.0123**	0.00491 J	0.00955 J
Anions/Water Quality Parameters														
Bicarbonate Alkalinity	mg/L	NS	**116**	**112**	**123**	**127**	**132**	**170**	**129**	**125**	**128**	**128**	**120**	**129**
Bromide	mg/L	NS	**0.117**	**0.114**	0.0759 J	0.0736 J	0.0414 J	<0.03	<0.03	0.0786 J	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	NS	<3.5	**9.60**	4.40 J	**7.40**	8.20 J	<3	9.60 J	**11.4**	8.40 J	**9.80**	**9.40**	**9.60**
Chloride[(a)]	mg/L	250	**24.9**	**25.4**	**25.7**	**25.0**	**26.9**	**22.7**	**22.8**	**24.6**	**21.8**	**21.4**	**21.9**	**21.1**
Sulfate[(a)]	mg/L	250	0.347 J	<0.2	<0.2	<0.2	0.238 J	0.286 J	0.214 J	<0.2	<0.2	<0.2	<0.2	0.251 J
Total Dissolved Solids (TDS)[(a)]	mg/L	500	**214**	**160**	**170**	**170**	**206**	**160**	**218**	**202**	**172**	**500**	**140**	**148**
pH[(a)]	SI	6.5 - 8.5	8.59 H	8.55 H	8.31 H	8.72 H	9.39 H	8.59 H	8.66 H	8.72 H	8.55 H	8.62 H	8.66 H	8.58 H
pH (field)	SI	6.5 - 8.5	**8.44**	**9.06**	**8.49**	**8.74**	**8.68**	**8.56**	**8.86**	**8.38**	**8.27**	**7.99**	**8.15**	**8.52**
Sulfides														
Hydrogen Sulfide	mg/L	NS	<0.5	<0.5	<0.5	**3.40**	0.638 J	**1.28**	<0.5	1.62[(c)]	**2.30**	**16.7**	<0.5	<0.5
Sulfide	mg/L	NS	<1.2	<1.2	<1.2	**3.20**	<0.92	1.20 J	<0.92	1.52 J[(c)]	2.16 J	**15.7**	<0.92	<0.92
Volatile Organic Compounds														
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions														
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	0.0350 J	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	**0.0205**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	**0.0241**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.004	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes														
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units	Sample ID	MW-1											
		Sample Location	MW-1-700											
		Sample Interval (ft)	694-704'											
		Sample Date	10/21/24	11/19/24	12/16/24	1/29/25	2/18/25	3/18/25	4/22/25	5/13/25	6/19/25	7/22/25	8/20/25	9/16/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
			Monitoring Wells											
Total Metals		**RECAP GWSS**												
Arsenic	mg/L	0.01	0.000731 J	0.000607 J	0.000651 J	0.000939 J	0.00134 J	0.00105 J	0.000535 J	0.00137 J	0.000675 J	0.00114 J	0.00109 J	0.000651 J
Barium	mg/L	2	**0.0799**	**0.0892**	**0.0832**	**0.0732**	**0.0737**	**0.0718**	**0.0697**	**0.0677**	**0.0599**	**0.0549**	**0.0605**	**0.0550**
Calcium	mg/L	NS	**2.14**	**2.34**	**2.31**	**2.56**	**2.66**	**2.69**	**1.84**	**2.80**	**2.05**	**2.23**	**2.36**	**1.70**
Chromium	mg/L	0.1	0.000687 J	0.000641 J	<0.0004	0.000906 J	<0.0004	<0.0004	<0.0004	<0.0004	0.000405 J	0.000591 J	<0.00173	<0.00173
Iron[a]	mg/L	0.3	**1.12**	**0.809**	**1.40**	**0.964**	**0.96**	**1.83**	0.0607 J	**1.03**	**0.917**	**0.905**	**0.710**	**0.419**
Lead	mg/L	0.015	**0.00320**	0.00108 J	**0.00299**	0.000967 J	<0.0006	0.000961 J	0.00161 J	0.000681 J	**0.00204**	**0.00213**	0.000545 J	<0.00047
Magnesium	mg/L	NS	**0.423**	**0.510**	**0.451**	**0.428**	**0.387**	**0.418**	**0.313**	**0.418**	**0.396**	**0.346**	**0.378**	**0.345**
Manganese[a]	mg/L	0.05	**0.0117**	**0.00912**	**0.0124**	**0.00852**	**0.00931**	**0.0155**	0.00146 J	**0.0111**	**0.0113**	**0.00896**	**0.00703**	**0.00505**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	<0.0006	<0.0006	0.000753 J	0.000627 J	0.000661 J	0.00164 J	<0.0006	<0.0006	0.000851 J	0.000832 J	<0.0013	<0.0013
Potassium	mg/L	NS	**1.87**	**2.51**	**2.51**	**2.60**	**2.35**	**2.16**	**2.20**	**2.30**	**2.92**	**2.35**	**2.79**	**2.69**
Sodium	mg/L	NS	**149**	**190**	**197**	**206**	**179**	**171**	**160**	**189**	**236**	**177**	**211**	**181**
Strontium	mg/L	NS	**0.0726**	**0.0804**	**0.0769**	**0.0748**	**0.0754**	**0.0705**	**0.0675**	**0.0703**	**0.0655**	**0.0604**	**0.0635**	**0.0578**
Vanadium	mg/L	0.026	<0.0006	<0.0006	0.000649 J	0.000610 J	0.00100 J	<0.0006	<0.0006	0.00116 J	<0.0006	<0.0006	0.000752 J	<0.0006
Zinc	mg/L	1.1	0.00209 J	0.00274 J	**0.00406**	0.00222 J	0.00245 J	0.00323 J	**0.0221**	0.00396 J	**0.00612**	**0.00560**	0.00402 J	0.00574 J
Anions/Water Quality Parameters														
Bicarbonate Alkalinity	mg/L	NS	**220**	**222**	**244**	**220**	**223**	**296**	**237**	**207**	**222**	**203**	**203**	**216**
Bromide	mg/L	NS	**0.172**	**0.178**	**0.144**	**0.132**	**0.107**	<0.03	<0.03	**0.131**	**0.142**	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	NS	**51.6**	**60.2**	**56.4**	**72.8**	**84.6**	**48.6**	**50.6**	**70.8**	**65.0**	**85.4**	**72.0**	**74.0**
Chloride[a]	mg/L	250	**105**	**112**	**111**	**107**	**110**	**102**	**102**	**108**	**99.6**	**99.8**	**101**	**101**
Sulfate[a]	mg/L	250	0.436 J	0.357 J	<0.2	**0.512**	**0.926**	**0.829**	0.309 J	0.497 J	<0.2	<0.2	0.381 J	0.278 J
Total Dissolved Solids (TDS)[a]	mg/L	500	**478**	**472**	**456**	**440**	**490**	**518**	**444**	**484**	**448**	**508**	**424**	**426**
pH[a]	SI	6.5 - 8.5	9.43 H	9.00 H	9.35 H	9.48 H	9.24 H	9.11 H	9.26 H	9.48 H	9.29 H	9.54 H	9.54 H	9.39 H
pH (field)	SI	6.5 - 8.5	**7.11**	**11.04**	**9.15**	**9.34**	**9.38**	**9.67**	**9.41**	**9.04**	**9.07**	**8.87**	**8.83**	**9.23**
Sulfides														
Hydrogen Sulfide	mg/L	NS	**1.28**	<0.5	<0.5	**1.28**	<0.5	<0.5	<0.5	3.74[c]	**17.4**	**16.7**	<0.5	<0.5
Sulfide	mg/L	NS	1.20 J	<1.2	<1.2	1.20 J	<0.92	<0.92	<0.92	3.52 J[c]	**16.4**	**15.7**	<0.92	<0.92
Volatile Organic Compounds														
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions														
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	0.0357 J	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	**0.0105**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	**0.0283**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	**0.0240**	<0.025	0.0308 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.025	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.004	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes														
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

		Sample ID	MW-2											
		Sample Location	MW-2-200											
		Sample Interval (ft)	230-240'											
		Sample Date	10/23/24	11/19/24	12/16/24	1/28/25	2/19/25	3/19/25	4/23/25	5/15/25	6/18/25	7/22/25	8/21/25	9/17/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**		**Monitoring Wells**											
Total Metals		**RECAP GWSS**												
Arsenic	mg/L	0.01	**0.00248**	0.000671 J	0.000474 J	0.000616 J	0.000667 J	0.00186 J	0.000838 J	**0.00407**	0.000880 J	0.000852 J	0.00151 J	0.00127 J
Barium	mg/L	2	**0.1030**	**0.0787**	**0.0885**	**0.0794**	**0.0863**	**0.115**	**0.0939**	**0.168**	**0.0985**	**0.107**	**0.141**	**0.139**
Calcium	mg/L	NS	**9.86**	**6.38**	**6.66**	**6.51**	**6.45**	**7.10**	**6.53**	**16.5**	**7.83**	**8.68**	**11.0**	**10.3**
Chromium	mg/L	0.1	0.000645 J	<0.0004	<0.0004	0.000849 J	0.00114 J	<0.0004	0.000413 J	<0.0004	<0.0004	<0.0004	<0.00173	<0.00173
Iron[(a)]	mg/L	0.3	**1.76**	0.0351 J	0.0288 J	**1.64**	**0.470**	**1.07**	**1.13**	**0.856**	**1.09**	**0.796**	**1.94**	**1.34**
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000475 J	<0.00047
Magnesium	mg/L	NS	**2.1**	**1.70**	**2.14**	**2.15**	**2.26**	**2.42**	**1.94**	**3.83**	**2.77**	**2.97**	**3.71**	**3.49**
Manganese[(a)]	mg/L	0.05	**0.0208**	0.00450 J	**0.00576**	**0.00808**	0.00488 J	**0.0121**	**0.0117**	**0.0237**	**0.0135**	**0.0150**	**0.0330**	**0.0350**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	0.000673 J	<0.0006	<0.0006	0.000624 J	0.000606 J	0.000939 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0013	<0.0013
Potassium	mg/L	NS	**4.43**	**4.58**	**4.40**	**4.29**	**4.12**	**4.03**	**4.19**	**2.90**	**4.78**	**4.27**	**4.44**	**4.20**
Sodium	mg/L	NS	**76.1**	**72.3**	**73.1**	**72.7**	**73.1**	**78.6**	**74.9**	**68.8**	**82.1**	**76.3**	**84.9**	**78.6**
Strontium	mg/L	NS	**0.258**	**0.254**	**0.247**	**0.224**	**0.245**	**0.236**	**0.220**	**0.293**	**0.244**	**0.251**	**0.277**	**0.279**
Vanadium	mg/L	0.026	0.00140 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	**0.00437**	0.00247 J	0.00251 J	0.00301 J	0.00203 J	0.00283 J	0.00315 J	**0.00590**	**0.00913**	**0.00706**	**0.0448**	**0.0965**
Anions/Water Quality Parameters														
Bicarbonate Alkalinity	mg/L	NS	**132**	**138**	**141**	**147**	**151**	**162**	**152**	**181**	**165**	**174**	**176**	**182**
Bromide	mg/L	NS	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	NS	**10.2**	**18.0**	**14.0**	**14.8**	**15.8**	<3	**14.6**	**13.2**	**17.2**	**18.8**	**14.2**	**9.40**
Chloride[(a)]	mg/L	250	**26.2**	**26.9**	**26.6**	**26.5**	**25.6**	**23.5**	**23.0**	**25.1**	**22.9**	**22.3**	**22.2**	**22.1**
Sulfate[(a)]	mg/L	250	**25.2**	**20.9**	**13.1**	**7.63**	**3.42**	**2.08**	<0.2	**2.48**	<0.2	<0.2	0.266 J	<0.2
Total Dissolved Solids (TDS)[(a)]	mg/L	500	**242**	**296**	**340**	**200**	**216**	**190**	**270**	**300**	**240**	**222**	**238**	**420**
pH[(a)]	SI	6.5 - 8.5	8.80 H	8.95 H	8.99 H	8.94 H	8.88 H	8.66 H	8.81 H	8.49 H	8.80 H	8.84 H	**8.71**	8.52 H
pH (field)	SI	6.5 - 8.5	**8.49**	**10.60**	**8.73**	**8.92**	**7.37**	**8.74**	**9.25**	**8.51**	**8.61**	**8.18**	**8.19**	**8.29**
Sulfides														
Hydrogen Sulfide	mg/L	NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.552 J[(c)]	**5.70**	**3.91**	<0.5	<0.5
Sulfide	mg/L	NS	<1.2	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	<0.92(c)	**5.36**	3.68 J	<0.92	<0.92
Volatile Organic Compounds														
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	0.00062 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0002	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions														
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	0.0359 J	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	0.0251 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	<0.025	0.0488 J	<0.025	<0.025	0.0454 J	**0.114**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes														
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units	Sample ID	MW-2											
		Sample Location	MW-2-500											
		Sample Interval (ft)	502-512'											
		Sample Date	10/23/24	11/19/24	12/18/24	1/29/25	2/19/25	3/19/25	4/23/25	5/15/25	6/18/25	7/24/25	8/21/25	9/16/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
			Monitoring Wells											
Total Metals		**RECAP GWSS**												
Arsenic	mg/L	0.01	0.000915 J	0.00128 J	0.000698 J	0.000708 J	0.00102 J	0.00103 J	0.00115 J	0.000878 J	0.000929 J	0.00123 J	0.00117 J	0.00121 J
Barium	mg/L	2	**0.0777**	**0.077**	**0.0696**	**0.0743**	**0.106**	**0.104**	**0.146**	**0.0866**	**0.0971**	**0.128**	**0.113**	**0.110**
Calcium	mg/L	NS	**3.93**	**2.84**	**2.35**	**4.02**	**7.86**	**7.23**	**13.0**	**5.53**	**6.50**	**12.5**	**8.90**	**8.10**
Chromium	mg/L	0.1	0.000543 J	0.000490 J	0.000558 J	0.000619 J	0.000746 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.00173	<0.00173
Iron[(a)]	mg/L	0.3	**0.993**	**0.619**	0.0480 J	**0.619**	**6.53**	**2.96**	**1.36**	**0.941**	**1.63**	**0.563**	**1.01**	**4.30**
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047
Magnesium	mg/L	NS	**0.652**	**0.428**	**0.283**	**0.647**	**1.35**	**1.21**	**1.95**	**0.814**	**1.24**	**1.95**	**1.37**	**1.56**
Manganese[(a)]	mg/L	0.05	**0.0157**	**0.00988**	0.00139 J	**0.00966**	**0.0696**	**0.0527**	**0.0391**	**0.0231**	**0.0334**	**0.113**	**0.0483**	**0.103**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	0.000754 J	0.000898 J	<0.0006	<0.0006	**0.00202**	0.00113 J	0.000809 J	0.000670 J	0.000857 J	0.000616 J	<0.0013	0.00157 J
Potassium	mg/L	NS	**64.8**	**63.7**	**61.1**	**54.1**	**45.2**	**50.3**	**31.7**	**55.6**	**56.9**	**42.3**	**61.9**	**56.1**
Sodium	mg/L	NS	**78.2**	**77.9**	**73.2**	**69.9**	**68.4**	**72.2**	**59.4**	**69.5**	**76.3**	**65.0**	**77.3**	**71.1**
Strontium	mg/L	NS	**0.312**	**0.355**	**0.381**	**0.388**	**0.446**	**0.452**	**0.413**	**0.511**	**0.498**	**0.470**	**0.598**	**0.547**
Vanadium	mg/L	0.026	<0.0006	0.000622 J	<0.0006	<0.0006	0.00137 J	0.000679 J	<0.0006	<0.0006	<0.0006	0.000716 J	<0.0006	0.00160 J
Zinc	mg/L	1.1	0.00277 J	0.00237 J	0.00261 J	<0.002	**0.00646**	**0.00533**	0.00267 J	0.00249 J	0.00387 J	0.00307 J	0.00745 J	**0.0131**
Anions/Water Quality Parameters														
Bicarbonate Alkalinity	mg/L	NS	**102**	**7.50**	**18.9**	**17.6**	**18.0**	<3	**117**	**76.5**	6.60 J	**38.9**	<1.2	**5.50**
Bromide	mg/L	NS	**0.628**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0819 J	<0.03	<0.03	<0.03	0.0725 J
Carbonate Alkalinity	mg/L	NS	**110**	**210**	**189**	**177**	**171**	**73.0**	**58.4**	**159**	**186**	**149**	**180**	**189**
Chloride[(a)]	mg/L	250	**37.0**	**37.6**	**37.4**	**38.8**	**38.7**	**37.3**	**36.7**	**40.1**	**36.0**	**40.3**	**38.0**	**36.8**
Sulfate[(a)]	mg/L	250	**4.66**	**4.60**	**2.96**	**3.21**	**2.62**	**2.07**	**1.56**	**2.57**	**1.69**	**1.60**	**1.47**	**1.49**
Total Dissolved Solids (TDS)[(a)]	mg/L	500	**350**	**242**	**298**	**334**	**316**	**268**	**334**	**324**	**360**	**296**	**304**	**260**
pH[(a)]	SI	6.5 - 8.5	10.9 H	10.9 H	11.0 H	11.0 H	10.5 H	10.5 H	9.56 H	10.9 H	10.6 H	10.3 H	10.8 H	10.6 H
pH (field)	SI	6.5 - 8.5	**10.15**	**10.91**	**10.86**	**10.75**	**10.63**	**10.51**	**10.26**	**10.63**	**10.44**	**9.72**	**10.37**	**10.47**
Sulfides														
Hydrogen Sulfide	mg/L	NS	<0.5	<0.5	<0.5	<0.5	0.552 J	<0.5	<0.5	3.74[(c)]	**9.94**	**21.8**	<0.5	<0.5
Sulfide	mg/L	NS	<1.2	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	3.52 J[(c)]	**9.36**	**20.5**	<0.92	<0.92
Volatile Organic Compounds														
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	0.00033 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	0.00085 J	<0.0002	0.00076 J	0.00064 J	0.00069 J	0.00068 J	0.00044 J	<0.00033	<0.00033	0.00044 J	0.00053 J	0.00050 J
m,p-Xylene	mg/L	10	0.0013 J	0.0016 J	0.0014 J	0.00095 J	0.0013 J	0.0011 J	<0.00061	<0.00061	0.0010 J	0.00064 J	0.00077 J	0.00073 J
o-Xylene	mg/L	10	**0.0015**	**0.0016**	**0.0015**	**0.0010**	**0.0013**	**0.0012**	0.00080 J	<0.00031	0.00098 J	0.00072 J	0.00079 J	0.00076 J
Xylenes, Total	mg/L	10	0.0028 J	**0.0032**	0.0029 J	0.0020 J	0.0025 J	0.0023 J	<0.00092	<0.00092	0.0020 J	0.0014 J	0.0016 J	0.0015 J
TPH Fractions														
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	0.0417 J	0.0397 J	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	<0.025	<0.025	<0.025	<0.025	**0.109**	0.0281 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes														
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units	Sample ID	MW-2											
		Sample Location	MW-2-700											
		Sample Interval (ft)	680-690'											
		Sample Date	10/23/24	11/19/24	12/18/24	1/28/25	2/19/25	3/19/25	4/23/25	5/15/25	6/18/25	7/22/25	8/21/25	9/17/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
			Monitoring Wells											
Total Metals		**RECAP GWSS**												
Arsenic	mg/L	0.01	0.000907 J	0.00153 J	0.00106 J	0.000774 J	0.00104 J	0.00101 J	0.00136 J	0.000871 J	0.000953 J	0.000801 J	0.00107 J	0.000757 J
Barium	mg/L	2	**0.00821**	**0.00873**	**0.00940**	**0.01330**	**0.0233**	**0.0158**	**0.0225**	**0.0102**	**0.0138**	**0.00692**	**0.0134**	**0.00820**
Calcium	mg/L	NS	**1.02**	**0.993**	**1.10**	**1.38**	**3.10**	**1.71**	**2.08**	**1.01**	**1.40**	**0.854**	**1.26**	**0.801**
Chromium	mg/L	0.1	<0.0004	0.000787 J	0.000781 J	0.000705 J	0.000799 J	<0.0004	0.000549 J	<0.0004	<0.0004	<0.0004	<0.00173	<0.00173
Iron[a]	mg/L	0.3	**0.717**	**0.583**	**0.766**	**0.324**	**0.382**	**0.424**	**0.374**	**0.346**	**0.528**	**0.287**	**0.341**	0.200 J
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047
Magnesium	mg/L	NS	0.0354 J	0.0323 J	0.0336 J	**0.0527**	0.104 J	0.0649 J	0.0928 J	0.0472 J	0.0602 J	0.0271 J	0.0692 J	<0.0408
Manganese[a]	mg/L	0.05	0.00372 J	0.00330 J	0.00356 J	0.00162 J	0.00284 J	0.00240 J	0.00195 J	0.00233 J	0.00417 J	0.00197 J	0.00327 J	<0.0019
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	**0.00238**	**0.00226**	**0.00217**	0.00131 J	0.00132 J	0.00170 J	0.00148 J	0.00147 J	0.00191 J	0.00121 J	<0.0013	0.00146 J
Potassium	mg/L	NS	**4.68**	**4.89**	**5.06**	**4.82**	**3.98**	**4.56**	**4.30**	**4.50**	**4.68**	**4.94**	**4.43**	**4.49**
Sodium	mg/L	NS	**166**	**172**	**177**	**173**	**221**	**221**	**174**	**168**	**199**	**176**	**196**	**170**
Strontium	mg/L	NS	**0.0191**	**0.0190**	**0.0194**	**0.0296**	**0.0424**	**0.0304**	**0.0362**	**0.0256**	**0.0275**	**0.0207**	**0.0273**	**0.0219**
Vanadium	mg/L	0.026	0.000763 J	<0.0006	<0.0006	<0.0006	0.00114 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	0.00389 J	0.00327 J	0.00220 J	<0.002	<0.002	0.00231 J	<0.002	0.00295 J	**0.00759**	**0.00425**	0.00653 J	**0.0171**
Anions/Water Quality Parameters														
Bicarbonate Alkalinity	mg/L	NS	**93.2**	**51.4**	**83.9**	**67.1**	**63.5**	<3	**127**	**69.4**	**67.9**	**54.3**	**69.0**	**65.0**
Bromide	mg/L	NS	**3.44**	<0.03	<0.03	**0.141**	**0.192**	**0.158**	**0.206**	**0.168**	**0.184**	**0.166**	**0.198**	**0.143**
Carbonate Alkalinity	mg/L	NS	**136**	**180**	**180**	**166**	**166**	**122**	**86.4**	**160**	**151**	**162**	**133**	**143**
Chloride[a]	mg/L	250	**99.7**	**102**	**106**	**120**	**159**	**130**	**149**	**127**	**125**	**115**	**140**	**130**
Sulfate[a]	mg/L	250	**14.4**	**5.6**	**0.531**	**1.95**	**0.976**	0.423 J	0.398 J	**0.562**	0.215 J	<0.2	<0.2	**0.608**
Total Dissolved Solids (TDS)[a]	mg/L	500	**476**	**416**	**388**	**490**	**524**	**426**	**518**	**454**	**360**	**436**	**484**	**658**
pH[a]	SI	6.5 - 8.5	10.5 H	10.4 H	10.6 H	10.4 H	8.95 H	10.2 H	9.80 H	10.2 H	10.2 H	10.4 H	10.2 H	10.2 H
pH (field)	SI	6.5 - 8.5	**9.92**	**12.04**	**10.23**	**10.23**	**6.86**	**10.26**	**10.41**	**10.15**	**10.04**	**9.79**	**9.66**	**10.03**
Sulfides														
Hydrogen Sulfide	mg/L	NS	**3.57**	**3.57**	**1.62**	**3.40**	<0.5	<0.5	<0.5	1.62[c]	**9.94**	**8.16**	**1.06**	<0.5
Sulfide	mg/L	NS	**3.36**	**3.36**	1.52 J	**3.20**	<0.92	<0.92	<0.92	1.52 J[c]	**9.36**	**7.68**	1.00 J	<0.92
Volatile Organic Compounds														
Benzene	mg/L	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0002	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions														
Aliphatics >C6-C8	mg/L	3.2	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.15	<0.0333	0.0394 J	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes														
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[a] - EPA Secondary MCL (No RECAP standard)
[b] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[c] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units		Sample ID	MW-3										
			Sample Location	MW-3-200										
			Sample Interval (ft)	228-238'										
			Sample Date	10/22/24	11/20/24	12/17/24	1/27/25	2/17/25	3/18/25	4/22/25	5/14/25	6/17/25	7/23/25	8/19/25	9/25/25
			Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
				Monitoring Wells											
Total Metals		**RECAP GWSS**													
Arsenic	mg/L	0.01		**0.00304**	**0.00264**	**0.00289**	**0.00234**	**0.00286**	**0.00217**	**0.00258**	**0.00212**	0.00162 J	0.00183 J	**0.00328**	**0.00207**
Barium	mg/L	2		**0.0971**	**0.124**	**0.0725**	**0.141**	**0.141**	**0.141**	**0.152**	**0.0574**	**0.154**	**0.144**	**0.222**	**0.206**
Calcium	mg/L	NS		**9.32**	**11.2**	**6.14**	**14.6**	**11.2**	**12.2**	**12.0**	**4.64**	**13.3**	**11.2**	**19.4**	**16.7**
Chromium	mg/L	0.1		0.00111 J	<0.0004	0.000961 J	0.000776 J	0.00238 J	<0.0004	0.000420 J	<0.0004	<0.0004	<0.0004	0.00228 J	<0.00173
Iron[(a)]	mg/L	0.3		**1.39**	**0.643**	**1.67**	**0.588**	**0.333**	**0.765**	**0.497**	**1.51**	**0.667**	**1.17**	**18.6**	**1.33**
Lead	mg/L	0.015		<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000681 J	<0.00047
Magnesium	mg/L	NS		**1.20**	**1.66**	**0.782**	**2.34**	**1.83**	**2.13**	**1.78**	**0.583**	**2.76**	**2.08**	**2.54**	**3.47**
Manganese[(a)]	mg/L	0.05		**0.0122**	**0.00688**	**0.0109**	**0.00860**	**0.00553**	**0.0123**	**0.00922**	**0.0117**	**0.0130**	**0.0136**	**0.0981**	**0.0236**
Mercury	mg/L	0.002		<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073		0.000846 J	0.000910 J	0.00121 J	<0.0006	<0.0006	0.00191 J	<0.0006	0.00103 J	0.000666 J	0.00152 J	**0.00625**	<0.0013
Potassium	mg/L	NS		**55.9**	**56.8**	**85.6**	**30.4**	**36.0**	**23.8**	**33.5**	**91.2**	**35.8**	**33.0**	**62.0**	**19.1**
Sodium	mg/L	NS		**118**	**117**	**123**	**110**	**106**	**96.5**	**111**	**120**	**115**	**104**	**121**	**101**
Strontium	mg/L	NS		**0.224**	**0.270**	**0.221**	**0.255**	**0.248**	**0.222**	**0.224**	**0.242**	**0.245**	**0.227**	**0.402**	**0.275**
Vanadium	mg/L	0.026		<0.0006	<0.0006	<0.0006	<0.0006	0.000763 J	<0.0006	<0.0006	0.000705 J	**0.0006**	<0.0006	**0.00846**	0.000793 J
Zinc	mg/L	1.1		**0.00404**	0.00237 J	0.00328 J	0.00339 J	<0.002	0.00309 J	**0.0102**	**0.00434**	**0.0228**	0.00363 J	**0.0121**	0.00516 J
Anions/Water Quality Parameters															
Bicarbonate Alkalinity	mg/L	NS		**197**	**192**	**187**	**276**	**254**	**312**	**276**	**212**	**274**	**280**	**272**	**302**
Bromide	mg/L	NS		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	NS		**128**	**175**	**165**	**52.8**	**67.6**	**32.4**	**36.6**	**181**	**40.0**	**28.2**	**74.6**	**12.0**
Chloride[(a)]	mg/L	250		**22.8**	**23.4**	**22.9**	**24.3**	**24.0**	**23.3**	**22.5**	**25.5**	**22.5**	**21.8**	**22.8**	**22.5**
Sulfate[(a)]	mg/L	250		**11.3**	**14.1**	**9.40**	**3.45**	**3.96**	**1.57**	**1.79**	**8.67**	**1.19**	0.458 J	**3.52**	<0.2
Total Dissolved Solids (TDS)[(a)]	mg/L	500		**430**	**456**	**628**	**338**	**186**	**392**	**376**	**624**	**404**	**410**	**384**	**412**
pH[(a)]	SI	6.5 - 8.5		9.76 H	9.91 H	8.25 H	9.09 H	8.47 H	8.44 H	8.98 H	9.99 H	8.97 H	8.81 H	9.34 H	8.43 H
pH (field)	SI	6.5 - 8.5		**8.98**	**9.81**	**9.43**	**9.17**	**9.28**	**8.79**	**9.09**	**9.92**	**9.03**	**8.4**	**8.99**	**8.35**
Sulfides															
Hydrogen Sulfide	mg/L	NS		<0.5	**1.62**	<0.5	<0.5	**1.06**	<0.5	<0.5	9.78[(c)]	**14.2**	**6.04**	**2.12**	**1.78**
Sulfide	mg/L	NS		<1.2	1.52 J	<1.2	<1.2	1.00 J	<0.92	<0.92	9.20[(c)]	**13.4**	**5.68**	2.00 J	1.68 J
Volatile Organic Compounds															
Benzene	mg/L	0.005		0.00050 J	<0.0002	<0.0002	**0.0012**	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	0.7		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1		<0.0002	<0.0002	0.00083 J	0.00061 J	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	10		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions															
Aliphatics >C6-C8	mg/L	3.2		<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	**0.0121**	<0.0018
Aliphatics >C8-C10	mg/L	0.15		<0.0333	<0.0333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	0.15		<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15		<0.002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3		<0.008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15		<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	0.15		**0.0154**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15		**0.0143**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15		<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15		<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes															
δD	‰	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

		Sample ID	**MW-3**											
		Sample Location	**MW-3-500**											
		Sample Interval (ft)	464-474'											
		Sample Date	10/22/24	11/20/24	12/17/24	1/28/25	2/17/25	3/18/25	4/21/25	5/14/25	6/17/25	7/23/25	7/24/25	8/19/25	9/18/25
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**		**Monitoring Wells**												
Total Metals		**RECAP GWSS**											POST-PURGE		
Arsenic	mg/L	0.01	<0.0004	0.00100 J	0.000437 J	<0.0004	<0.0004	<0.0004	0.000575 J	<0.0004	<0.0004	<0.0004	0.000585 J	<0.00051	<0.00051
Barium	mg/L	2	**0.159**	**0.159**	**0.158**	**0.141**	**0.151**	**0.170**	**0.165**	**0.158**	**0.160**	**0.162**	**0.153**	**0.143**	**0.126**
Calcium	mg/L	NS	**163**	**147**	**145**	**119**	**103**	**178**	**113**	**87.6**	**83.1**	**93.1**	**262**	**277**	**163**
Chromium	mg/L	0.1	0.000975 J	0.00132 J	0.000807 J	0.00158 J	0.00361 J	<0.0004	0.00182 J	<0.0004	0.00231 J	0.00375 J	0.00137 J	<0.00173	0.00375 J
Iron[(a)]	mg/L	0.3	**1.34**	**1.91**	**0.897**	**0.569**	**0.613**	**0.814**	**8.79**	**2.93**	**1.04**	**1.69**	**2.78**	**3.15**	**0.695**
Lead	mg/L	0.015	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047
Magnesium	mg/L	NS	**21.9**	**21.2**	**21.3**	**17.6**	**14.9**	**23.3**	**14.7**	**13.0**	**12.0**	**11.7**	**38.6**	**36.2**	**30.9**
Manganese[(a)]	mg/L	0.05	**0.0649**	**0.0371**	**0.0163**	**0.0107**	**0.0111**	**0.282**	**0.0474**	**0.0156**	**0.0078**	**0.0164**	**0.208**	**0.405**	**0.0159**
Mercury	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073	0.000616 J	0.000709 J	<0.0006	<0.0006	0.000809 J	0.00179 J	0.00156 J	0.000996 J	<0.0006	<0.0006	<0.0006	<0.0013	<0.0013
Potassium	mg/L	NS	**28.3**	**26.8**	**29.1**	**32.0**	**35.7**	**28.0**	**36.2**	**39.9**	**45.8**	**55.3**	**17.1**	**17.1**	**36.3**
Sodium	mg/L	NS	**802**[(b)]	**803**	**784**	**711**	**760**	**766**	**729**	**679**	**718**	**715**	**1,110**	**1,010**	**969**
Strontium	mg/L	NS	**4.94**[(b)]	**5.02**	**4.60**	**4.56**	**4.88**	**5.41**	**4.33**	**4.64**	**4.42**	**4.87**	**7.69**	**6.70**	**6.41**
Vanadium	mg/L	0.026	<0.0006	<0.0006	<0.0006	<0.0006	0.00144 J	<0.0006	0.000823 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Zinc	mg/L	1.1	**0.00456**	**0.00483**	0.00291 J	0.00304 J	0.00276 J	0.00339 J	**0.0163**	**0.00804**	**0.00729**	**0.00843**	**0.0123**	0.00467 J	**0.0124**
Anions/Water Quality Parameters															
Bicarbonate Alkalinity	mg/L	NS	**25.3**	**14.0**	**9.60**	**9.90**	3.70 J	**101**	**14.9**	<3	<3	<1.2	**63.6**	**127**	2.10 J
Bromide	mg/L	NS	<0.06	<0.06	<0.03	<0.06	<0.06	<0.03	**0.450**	**0.715**	**0.288**	**0.451**	**0.205**	<0.06	**1.35**
Carbonate Alkalinity	mg/L	NS	<3.5	<3	4.20 J	**6.60**	**10.0**	<3	<3	**12.8**	**12.2**	**14.8**	<1.2	<1.2	**9.60**
Chloride[(a)]	mg/L	250	**1,300**	**1,380**	**1,350**	**1,460**	**1,260**	**1,450**	**1,160**	**1,290**	**1,160**	**1,200**	**1,760**	**1,700**	**1,740**
Sulfate[(a)]	mg/L	250	**406**	**467**	**383**	**415**	**391**	**412**	**257**	**271**	**230**	**260**	**597**	**633**	**428**
Total Dissolved Solids (TDS)[(a)]	mg/L	500	**1,680**	**2,640**	**3,130**	**2,440**	**2,500**	**3,080**	**2,540**	**2,860**	**2,540**	**2,320**	**2,620**	**3,560**	**3,300**
pH[(a)]	SI	6.5 - 8.5	7.66 H	8.94 H	9.13 H	9.58 H	9.76 H	7.87 H	7.93 H	9.88 H	10.0 H	10.0 H	8.15 H	8.00 H	9.42 H
pH (field)	SI	6.5 - 8.5	**9.41**	**9.65**	**9.38**	**9.69**	**9.63**	**6.89**	**10.00**	**9.72**	**9.65**	**9.96**	**7.15**	**6.92**	**9.63**
Sulfides															
Hydrogen Sulfide	mg/L	NS	**2.12**	**4.25**	<0.5	<0.5	<0.5	<0.5	<0.5	3.40[(c)]	**13.1**	**8.16**	<0.5	**1.06**	<0.5
Sulfide	mg/L	NS	**2.00**	**4.00**	<1.2	<1.2	<0.92	<0.92	<0.92	3.20 J[(c)]	**12.4**	**7.68**	<0.92	1.00 J	<0.92
Volatile Organic Compounds															
Benzene	mg/L	0.005	<0.005	**0.0015**	**0.0011**	0.00078 J	0.00081 J	**0.0017**	**0.0011**	0.00070 J	<0.00028	0.00089 J	**0.0022**	**0.0013**	**0.0018**
Ethylbenzene	mg/L	0.7	<0.0075	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	1	<0.005	**0.0065**	**0.0052**	**0.0038**	**0.0051**	**0.0055**	**0.0041**	**0.0034**	**0.0044**	**0.0039**	0.0018 J	0.0020 J	**0.0020**
m,p-Xylene	mg/L	10	<0.012	<0.0005	<0.0005	<0.0005	0.00055 J	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	10	<0.0075	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	10	<0.0075	<0.0003	<0.0003	<0.0003	0.00055 J	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions															
Aliphatics >C6-C8	mg/L	3.2	**1.52**	1.61 J	**0.795**	**0.533**	**0.582**	**0.680**	**0.494**	**0.266**	**0.268**	**1.18**	**1.13**	**1.38**	**1.67**
Aliphatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.167	0.000684 J	0.000910 J	0.000791 J	0.00133 J	<0.002	**0.0285**	**0.0657**	**0.161**	<0.01	<0.01
Aliphatics >C10-C12	mg/L	0.15	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	0.15	<0.002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	7.3	<0.008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	0.15	<0.0333	<0.0333	<0.167	0.00500 J	0.00477 J	0.00474 J	0.00455 J	0.0613 J	<0.0006	<0.0006	<0.015	<0.0006	<0.015
Aromatics >C10-C12	mg/L	0.15	<0.001	<0.025	0.0337 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	0.15	<0.004	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	0.15	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	0.15	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stable Isotopes															
δD	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
δ18O	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (DIC)	‰	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 1
Groundwater Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units		Sample ID	MW-3											SN 37320		
			Sample Location	MW-3-700											PPG-4	PPG-4	PPG-4
			Sample Interval (ft)	680-690'											2445'	2615'	2980'
			Sample Date	10/22/24	11/20/24	12/17/24	1/28/25	2/18/25	3/19/25	4/21/25	5/14/25	6/17/25	7/24/25	8/20/25	9/17/25	8/28/25	8/28/25	8/28/25
			Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
				Monitoring Wells												Brine		
Total Metals		**RECAP GWSS**																
Arsenic	mg/L	0.01		<0.0004	<0.0004	<0.0004	<0.0004	0.000462 J	<0.0004	<0.0004	<0.0004	<0.0004	0.000418 J	<0.00051	<0.00051	<0.0255	<0.0255	<0.0255
Barium	mg/L	2		**2.15**	**1.74**	**1.78**	**1.84**	**1.69**	**2.31**	**2.38**	**1.66**	**1.74**	**1.71**	**1.56**	**1.60**	0.150 J	0.144 J	0.176 J
Calcium	mg/L	NS		**126**	**112**	**108**	**125**	**111**	**146**	**144**	**96.5**	**106**	**112**	**92.7**	**86.5**	746	795	1,040
Chromium	mg/L	0.1		0.00131 J	0.00126 J	0.00123 J	0.00191 J	**0.00509**	<0.0004	<0.0004	0.00208 J	0.00192 J	0.00270 J	0.00229 J	<0.00173	<0.0865	<0.0865	<0.0865
Iron[(a)]	mg/L	0.3		**0.515**	**0.759**	**0.627**	**0.655**	**0.337**	**0.316**	<0.012	**0.718**	**0.718**	**0.676**	**0.286**	**2.12**	<3.00	<3.00	<3.00
Lead	mg/L	0.015		<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.00047	<0.0235	<0.0235	<0.0235
Magnesium	mg/L	NS		**26.6**	**25.0**	**23.2**	**19.2**	**18.7**	**20.6**	**19.0**	**14.3**	**15.3**	**16.5**	**11.1**	**9.75**	5.01 J	5.03 J	6.07 J
Manganese[(a)]	mg/L	0.05		**0.0466**	**0.0493**	**0.0453**	**0.0434**	**0.0449**	**0.0399**	**0.0347**	**0.0369**	**0.0348**	**0.0294**	**0.0213**	**0.0332**	0.225 J	0.231 J	0.272
Mercury	mg/L	0.002		<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.073		0.000749 J	0.00183 J	<0.0006	0.00109 J	0.00114 J	<0.0006	<0.0006	<0.0006	0.000650 J	0.000910 J	0.00167 J	0.00163 J	0.585	1.03	0.749
Potassium	mg/L	NS		**18.1**	**17.6**	**18.1**	**19.7**	**18.5**	**23.4**	**20.9**	**21.5**	**28.4**	**27.8**	**34.7**	**38.6**	5.95 J	6.16 J	7.41 J
Sodium	mg/L	NS		**1,160**	**785**	**929**	**1,130**	**1,010**	**1,360**	**1,120**	**965**	**1,080**	**988**	**895**	**846**	48,600	48,300	59,400
Strontium	mg/L	NS		**3.23**	**2.42**	**2.56**	**3.01**	**2.86**	**3.82**	**3.00**	**2.98**	**2.98**	**2.87**	**2.50**	**2.57**	4.59	5.44	7.11
Vanadium	mg/L	0.026		<0.0006	<0.0006	<0.0006	0.000663 J	0.00164 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.03	<0.03	<0.03
Zinc	mg/L	1.1		0.00299 J	0.00254 J	0.00251 J	0.00301 J	0.00214 J	0.00274 J	**0.00408**	**0.0152**	**0.0111**	**0.00615**	**0.0162**	**0.0311**	1.83	1.90	0.527
Anions/Water Quality Parameters																		
Bicarbonate Alkalinity	mg/L	NS		**25.0**	**19.8**	**25.0**	**25.4**	**25.0**	**28.6**	**24.2**	**18.1**	**22.0**	**17.8**	**25.3**	**22.7**	130	130	123
Bromide	mg/L	NS		**2.33**	**2.46**	**2.44**	**2.33**	**2.63**	**2.18**	**2.43**	**2.27**	**2.30**	**2.34**	**2.04**	**1.89**	<6.00	<6.00	<6.00
Carbonate Alkalinity	mg/L	NS		<3.0	<3.0	<3	<3	<3	<3	<3	3.80 J	4.40 J	4.00 J	<1.2	3.40 J	<1.2	<1.2	<1.2
Chloride[(a)]	mg/L	250		**2,080**	**2,010**	**2,090**	**2,130**	**2,330**	**2,020**	**2,070**	**1,970**	**1,750**	**1,830**	**1,570**	**1,650**	182,000	180,000	187,000
Sulfate[(a)]	mg/L	250		**1.53**	<0.4	<0.4	<1	<0.4	1.14 J	<0.4	<0.4	<0.4	<0.4	<0.4	0.263 J	3,120	3,460	3,760
Total Dissolved Solids (TDS)[(a)]	mg/L	500		**2,180**	**3,060**	**3,160**	**3,420**	**3,860**	**3,260**	**4,040**	**6,360**	**3,440**	**4,680**	**3,260**	**2,990**	297,000	317,000	273,000
pH[(a)]	SI	6.5 - 8.5		9.08 H	8.87 H	8.35 H	8.48 H	8.97 H	8.50 H	7.47 H	8.68 H	8.75 H	8.73 H	7.79 H	8.78 H	6.64 H	6.54 H	6.41 H
pH (field)	SI	6.5 - 8.5		**9.50**	**8.90**	**8.65**	**9.70**	**8.79**	**8.62**	**8.79**	**8.72**	**8.65**	**8.76**	**8.96**	**9.12**	NA	NA	NA
Sulfides																		
Hydrogen Sulfide	mg/L	NS		<0.5	**1.19**	0.552 J	**1.28**	<0.5	<0.5	<0.5	3.74[(c)]	<0.5	**2.68**	<0.5	<0.5	<0.5	0.5	<0.5
Sulfide	mg/L	NS		<1.2	<1.2	<1.2	1.20 J	<0.92	<0.92	<0.92	3.52 J[(c)]	<0.92	2.52 J	<0.92	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds																		
Benzene	mg/L	0.005		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	0.13	0.14	0.15
Ethylbenzene	mg/L	0.7		<0.0003	<0.0003	<0.0003	<0.0003	0.00031 J	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	0.0020 J	0.0030	0.0032 J
Toluene	mg/L	1		**0.0011**	0.00098 J	0.00098 J	0.00083 J	0.00077 J	0.00096 J	0.00094 J	0.00073 J	0.0010 J	0.00097 J	0.00091 J	<0.00033	0.042	0.068	0.063
m,p-Xylene	mg/L	10		<0.0005	<0.0005	<0.0005	<0.0005	0.00062 J	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	0.0038 J	0.0050	0.0053 J
o-Xylene	mg/L	10		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	0.0037	0.0044	0.0046
Xylenes, Total	mg/L	10		<0.0003	<0.0003	<0.0003	<0.0003	0.00062 J	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	0.0075	0.0094	0.0099 J
TPH Fractions																		
Aliphatics >C6-C8	mg/L	3.2		<0.0333	<0.0333	<0.167	0.00321 J	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	**0.0215**	**0.00906**	<0.0018	NA	NA	NA
Aliphatics >C8-C10	mg/L	0.15		0.0448 J	0.0547 J	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	**0.0116**	**0.0116**	<0.0004	NA	NA	NA
Aliphatics >C10-C12	mg/L	0.15		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Aliphatics >C12-C16	mg/L	0.15		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Aliphatics >C16-C35	mg/L	7.3		<0.025	<0.025	<0.025	0.0360 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Aromatics >C8-C10	mg/L	0.15		<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	NA	NA	NA
Aromatics >C10-C12	mg/L	0.15		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Aromatics >C12-C16	mg/L	0.15		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Aromatics >C16-C21	mg/L	0.15		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Aromatics >C21-C35	mg/L	0.15		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Stable Isotopes																		
δD	‰	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-19.7	-18.1	-20.5
δ18O	‰	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-4.09	-3.87	-4.08
$\delta^{13}C$ (DIC)	‰	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
J - Estimated Value reported below the detection limit.
H - pH is received at the lab outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.
NA - Not Analyzed
NS - No Standard
[(a)] - EPA Secondary MCL (No RECAP standard)
[(b)] - Duplicate sample result (discrepancy with original)
Blue shaded values exceed standard
[(c)] - Resampled Values

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 1									LDNR 3								
	Sample Date	10/22/24	11/21/24	12/16/24	1/29/25	2/18/25	3/20/25	4/23/25	7/24/25	10/22/25	10/21/24	11/20/24	12/18/24	1/29/25	2/24/25	3/18/25	4/22/25	7/22/25	10/22/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**																	
Total Metals																			
Arsenic	mg/L	**0.00544**	0.00193 J	**0.00253**	0.00114 J	0.00102 J	0.00177 J	**0.00433**	**0.00415**	**0.00399**	0.00174 J	0.00148 J	0.00132 J	0.000933 J	0.000742 J	0.000896 J	0.00145 J	0.00103 J	0.000923 J
Barium	mg/L	**0.610**	**0.233**	**0.182**	**0.166**	**0.133**	**0.120**	**0.287**	**0.251**	**0.937**	**0.293**	**0.321**	**0.278**	**0.147**	**0.119**	**0.0916**	**0.107**	**0.198**	**0.254**
Calcium	mg/L	**254**	**241**	**247**	**206**	**108**	**143**	**175**	**119**	**237**	**88.7**	**92.5**	**103.0**	**102.0**	**89.7**	**91.5**	**118**	**73.6**	**72.1**
Chromium	mg/L	0.00221 J	0.000670 J	<0.0004	<0.0004	0.000588 J	<0.0004	0.00135 J	<0.0004	<0.00173	0.00106 J	0.000542 J	0.000723 J	<0.0004	<0.0004	<0.0004	0.00147 J	<0.0004	<0.00173
Iron	mg/L	**1.98**	**0.793**	0.156 J	**2.31**	**0.935**	**1.43**	**0.298**	**1.45**	**7.43**	0.0199 J	0.151 J	0.0218 J	0.0282 J	**0.215**	0.101 J	0.0356 J	0.0827 J	<0.06
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00156 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047
Magnesium	mg/L	**76.4**	**58.6**	**65.2**	**55.9**	**23.2**	**30.8**	**41.5**	**25.8**	**59.0**	**21.5**	**22.2**	**25.4**	**22.4**	**19.1**	**21.0**	**23.2**	**12.8**	**13.6**
Manganese	mg/L	**3.28**	**2.45**	**3.38**	**4.04**	**0.104**	**0.735**	**2.95**	**1.19**	**3.99**	**0.505**	**0.423**	**0.389**	**0.183**	**0.0888**	**0.182**	**0.309**	**0.935**	**0.427**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	**0.00578**	**0.00462**	**0.00430**	**0.00341**	**0.00217**	0.00193 J	**0.00487**	0.00184 J	0.00305 J	0.00145 J	0.00172 J	0.00182 J	0.00163 J	0.0116 J	**0.00206**	0.00130 J	0.00128 J	<0.0013
Potassium	mg/L	**17.4**	**7.73**	**9.99**	**3.54**	**3.17**	**3.35**	**7.22**	**4.20**	**12.9**	**3.01**	**2.86**	**3.15**	**2.93**	**2.64**	**2.45**	**2.20**	**2.73**	**2.70**
Sodium	mg/L	**352**	**290**	**273**	**239**	**280**	**286**	**241**	**180**	**329**	**274**	**305**	**317**	**299**	**217**	**220**	**205**	**131**	**159**
Strontium	mg/L	**1.90**	**1.53**	**1.55**	**1.38**	**0.817**	**0.894**	**1.15**	**0.903**	**1.69**	**0.711**	**0.788**	**0.790**	**0.770**	**0.688**	**0.714**	**0.851**	**0.522**	**0.536**
Vanadium		0.00171 J	<0.0006	0.00267 J	0.000682 J	0.00155 J	0.000831 J	0.00202 J	0.00462 J	**0.00621**	0.00347 J	**0.00556**	0.00275 J	0.00252 J	0.00261 J	0.00114 J	0.00250 J	0.00201 J	0.00229 J
Zinc	mg/L	**0.0464**	**0.0127**	**0.00465**	**0.0202**	**0.00953**	**2.49**	**0.00686**	**0.00481**	**0.0182**	0.00291 J	**0.00924**	**0.00466**	0.00327 J	0.00226 J	<0.002	0.00335 J	**0.00540**	<0.003
Anions/Wateruality Parameters																			
Bicarbonate Alkalinity	mg/L	**392**	**222**	**307**	**340**	**172**	**231**	**309**	**254**	**345**	**192**	**155**	**175**	**149**	**147**	**215**	**138**	**156**	**171**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	**0.199**	<0.03	**0.459**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3.5	<3	<3	<3	<3	<3	**11.8**	<1.2	<1.2	<3.5	<3	<3	<3	<3	<3	8.80 J	<1.2	<1.2
Chloride	mg/L	**770**	**809**	**712**	**599**	**442**	**448**	**422**	**374**	**705**	**486**	**545**	**543**	**441**	**380**	**420**	**409**	**206**	**288**
Sulfate	mg/L	**126**	**449**	**396**	**245**	**209**	**136**	**54.2**	**57.6**	**4.80**	**90.2**	**148**	**170**	**196**	**191**	**193**	**167**	**94.3**	**62.6**
Total Dissolved Solids (TDS)	mg/L	**1,970**	**2,390**	**2,000**	**1,750**	**1,430**	**1,180**	**1,440**	**1,000**	**2,100**	**984**	**984**	**1,000**	**1,120**	**1,110**	**1,010**	**1,210**	**680**	**920**
pH	SI	7.60 H	7.15 H	7.23 H	7.60 H	7.34 H	7.40 H	8.37 H	7.46 H	7.25 H	7.52 H	7.69 H	7.69 H	7.83 H	7.72 H	7.88 H	8.45 H	7.51 H	7.88 H
Field pH	SI	NM	NM	**6.74**	**7.21**	**7.18**	**7.77**	**6.37**	**6.98**	**6.48**	**7.25**	**7.47**	**7.56**	**8.05**	**7.74**	**7.88**	**7.48**	**6.56**	**7.19**
Sulfides																			
Hydrogen Sulfide	mg/L	<0.5	<0.5	<0.5	**3.40**	<0.5	NA	<0.5	**1.62**	**1.78**	**3.40**	0.552 J	<0.5	<0.5	<0.5	<0.5	<0.5	**7.99**	<0.5
Sulfide	mg/L	<1.2	<1.2	<1.2	**3.20**	<0.92	NA	<0.92	1.52 J	1.68 J	**3.20**	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	**7.52**	<0.92
Volatile Organic Compounds																			
Benzene	mg/L	<0.0002	0.00055 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	**0.0021**	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	0.00092 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092
TPH Fractions																			
Aliphatics >C6-C8	mg/L	0.0607 J	0.0351 J	<0.833	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	**0.0400**	0.0381 J	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	**0.0372**	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	<0.0333	<0.833	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	<0.0333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	**0.0117**	<0.025	0.0372 J	<0.025	<0.025	<0.025	<0.025	<0.025	0.0271 J	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	**0.0483**	<0.025	**0.153**	<0.025	0.0754 J	<0.025	<0.025	<0.025	**0.137**	<0.002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	**0.203**	**0.127**	**0.508**	<0.025	**0.334**	0.0599 J	<0.025	<0.025	**0.694**	<0.008	<0.025	0.0289 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.0333	<0.833	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	**0.00646**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0279 J	**0.00476**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	**0.0327**	<0.025	0.0323 J	<0.025	<0.025	<0.025	<0.025	<0.025	0.0421 J	**0.0102**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	**0.0627**	<0.025	**0.101**	<0.025	0.0605 J	<0.025	<0.025	0.0346 J	0.0829 J	**0.00705**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	**0.124**	<0.025	**0.176**	<0.025	**0.124**	<0.025	0.0688 J	0.0315 J	**0.108**	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 4							LDNR 5								
	Sample Date	11/20/24	12/17/24	1/28/25	2/18/25	3/17/25	4/21/25	7/22/25	10/22/24	11/21/24	12/18/24	1/29/25	2/18/25	3/18/25	4/23/25	7/30/25	10/22/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**															
Total Metals																	
Arsenic	mg/L	0.00116 J	0.00158 J	0.000799 J	0.000808 J	0.000840 J	0.00164 J	0.00134 J	0.00147 J	0.00101 J	0.00101 J	0.000636 J	0.000903 J	0.000898 J	0.00124 J	0.000957 J	0.000902 J
Barium	mg/L	**0.401**	**0.362**	**0.290**	**0.203**	**0.0860**	**0.625**	**0.393**	**0.290**	**0.293**	**0.251**	**0.129**	**0.15**	**0.0996**	**0.108**	**0.196**	**0.237**
Calcium	mg/L	**86.1**	**101**	**93.7**	**102**	**90.3**	**113**	**70.8**	**96.6**	**91.3**	**102**	**102**	**99.7**	**95.6**	**116**	**63.3**	**78.4**
Chromium	mg/L	<0.0004	0.00105 J	0.000720 J	0.000523 J	<0.0004	<0.0004	<0.0004	0.000736 J	<0.0004	0.000678 J	<0.0004	0.000779 J	<0.0004	<0.0004	<0.0004	0.00304 J
Iron	mg/L	0.0422 J	**0.229**	0.0685 J	0.0513 J	0.0225 J	0.0383 J	0.0528 J	0.0428 J	0.0272 J	0.0271 J	0.0482 J	0.0471 J	0.158 J	<0.012	0.122 J	<0.06
Lead	mg/L	<0.0006	0.00105 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047
Magnesium	mg/L	**20.7**	**21.5**	**20.8**	**20.0**	**21.8**	**22.3**	**15.1**	**23.4**	**21.7**	**24.4**	**22.1**	**23.0**	**21.8**	**22.9**	**12.8**	**15.5**
Manganese	mg/L	**0.155**	**0.852**	**0.109**	**0.153**	**0.101**	**0.634**	**1.00**	**0.251**	**0.269**	**0.228**	**0.0912**	**0.171**	**0.192**	**0.164**	**2.06**	**0.368**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.000866 J	0.00121 J	0.00178 J	0.00120 J	0.000984 J	0.00136 J	0.000792 J	0.00142 J	0.00107 J	0.00169 J	0.00136 J	0.00130 J	**0.00213**	0.00148 J	0.00156 J	<0.0013
Potassium	mg/L	**2.73**	**2.98**	**2.81**	**2.78**	**2.45**	**2.16**	**2.68**	**3.22**	**2.77**	**3.03**	**2.94**	**3.08**	**2.47**	**2.01**	**2.46**	**2.92**
Sodium	mg/L	**283**	**268**	**217**	**264**	**228**	**190**	**150**	**330**	**297**	**298**	**289**	**322**	**250**	**232**	**123**	**187**
Strontium	mg/L	**0.742**	**0.775**	**0.736**	**0.712**	**0.703**	**0.861**	**0.547**	**0.781**	**0.781**	**0.760**	**0.762**	**0.775**	**0.738**	**0.840**	**0.481**	**0.567**
Vanadium		0.00264 J	0.00293 J	0.00201 J	0.00142 J	0.00202 J	0.00226 J	0.00405 J	0.00401 J	0.00167 J	0.00175 J	0.00153 J	0.00130 J	0.00119 J	0.00205 J	0.000805 J	0.00156 J
Zinc	mg/L	<0.002	**0.00769**	0.00352 J	**0.0515**	**0.00588**	**0.00901**	**0.00472**	**0.00408**	<0.002	**0.0362**	**0.0105**	**0.00483**	<0.002	<0.002	**0.00410**	0.00307 J
Anions/Wateruality Parameters																	
Bicarbonate Alkalinity	mg/L	**157**	**170**	**150**	**153**	**164**	**150**	**162**	**189**	**158**	**162**	**140**	**162**	**174**	**134**	**149**	**166**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<3	<3	<3	6.40 J	<1.2	<3	<3	<3	<3	<3	<3	9.00 J	<1.2	<1.2
Chloride	mg/L	**510**	**488**	**430**	**434**	**412**	**399**	**227**	**477**	**525**	**537**	**428**	**427**	**419**	**401**	**201**	**279**
Sulfate	mg/L	**137**	**177**	**189**	**204**	**191**	**159**	**66.2**	**91.6**	**146**	**164**	**203**	**207**	**197**	**168**	**71.4**	**62.9**
Total Dissolved Solids (TDS)	mg/L	**980**	**1,070**	**944**	**1,100 H**	**884**	**1,160**	**688**	**1,070**	**992**	**888 H**	**1,100**	**2,380**	**1,100**	**1,150**	**728**	**1,050**
pH	SI	7.43 H	6.27 H	7.90 H	7.22 H	8.40 H	8.34 H	7.43 H	8.05 H	7.61 H	7.55 H	7.92 H	7.87 H	7.91 H	8.46 H	7.76 H	7.96 H
Field pH	SI	**7.12**	**6.99**	**7.71**	**7.63**	**8.29**	**6.79**	**6.79**	**7.92**	**7.50**	**7.72**	**8.15**	**7.65**	**7.99**	**9.70**	**6.46**	**7.57**
Sulfides																	
Hydrogen Sulfide	mg/L	<0.5	<0.5	<0.5	0.638 J	<0.5	<0.5	**1.62**	<0.5	<0.5	<0.5 H	<0.5	<0.5	<0.5	<0.5	0.722 J	<0.5
Sulfide	mg/L	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	1.52 J	<1.2	<1.2	<1.2 H	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds																	
Benzene	mg/L	0.00025 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092
TPH Fractions																	
Aliphatics >C6-C8	mg/L	<0.167	<0.167	**0.00592**	<0.0018	<0.0018	**0.0139**	<0.0018	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	0.178 J	<0.167	<0.0004	<0.0004	<0.0004	0.000773 J	<0.0004	<0.0333	<0.0333	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	0.0325 J	0.0558 J	<0.025	<0.025	<0.025	0.0568 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.167	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0269 J	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units	LDNR 6									LDNR 7								
LDNR Sample No.																			
Sample Date		10/23/24	11/21/24	12/18/24	1/29/25	2/24/25	3/18/25	4/22/25	7/22/25	10/21/25	10/23/24	11/19/24	12/18/24	1/29/25	2/24/25	3/18/25	4/22/25	7/23/25	10/21/25
Sample Interval (ft)		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Sampler		ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**																	
Total Metals																			
Arsenic	mg/L	0.00133 J	0.00110 J	0.00106 J	0.000757 J	0.000746 J	0.000898 J	0.00146 J	0.00103 J	0.000900 J	0.00145 J	0.00169 J	0.00105 J	0.000680 J	0.000657 J	0.000879 J	0.00126 J	0.000970 J	0.000845 J
Barium	mg/L	**0.289**	**0.305**	**0.237**	**0.134**	**0.13**	**0.0882**	**0.107**	**0.196**	**0.232**	**0.306**	**0.299**	**0.242**	**0.128**	**0.126**	**0.0912**	**0.107**	**0.149**	**0.226**
Calcium	mg/L	**86.8**	**95.8**	**96.2**	**103**	**98.1**	**89.6**	**98.3**	**64.5**	**73.3**	**96.7**	**92.5**	**98.7**	**97.1**	**98.0**	**92.1**	**111**	**59.0**	**73.9**
Chromium	mg/L	<0.0004	0.000462 J	0.000801 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.00173	0.000591 J	0.00110 J	0.000682 J	0.00162 J	<0.0004	<0.0004	0.000884 J	<0.0004	<0.00173
Iron	mg/L	0.0256 J	0.0409 J	0.0293 J	0.0483 J	0.108 J	**0.201**	<0.012	0.0713 J	<0.06	0.0328 J	0.0246 J	0.0248 J	0.0543 J	0.0915 J	0.198 J	<0.012	0.0231 J	<0.06
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047
Magnesium	mg/L	**21.1**	**24.0**	**22.2**	**22.8**	**20.8**	**20.6**	**17.2**	**11.6**	**14.0**	**23.2**	**23.0**	**23.7**	**21.2**	**20.8**	**21.3**	**22.3**	**12.5**	**14.2**
Manganese	mg/L	**0.494**	**0.275**	**0.308**	**0.163**	**0.0844**	**0.170**	**0.253**	**0.874**	**0.326**	**0.289**	**0.278**	**0.266**	**0.159**	**0.0683**	**0.131**	**0.114**	**1.03**	**0.273**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.00110 J	0.00108 J	0.00132 J	0.00138 J	0.00101 J	0.00155 J	0.000903 J	0.000820 J	<0.0013	0.00121 J	0.00121 J	0.00139 J	0.00115 J	0.00122 J	0.00152 J	0.000883 J	<0.0006	<0.0013
Potassium	mg/L	**2.81**	**3.00**	**2.85**	**2.99**	**2.85**	**2.41**	**2.19**	**2.23**	**2.68**	**3.01**	**2.94**	**3.00**	**2.75**	**2.91**	**2.43**	**1.96**	**2.23**	**2.74**
Sodium	mg/L	**284**	**320**	**294**	**321**	**219**	**240**	**222**	**119**	**169**	**286**	**340**	**304**	**268**	**230**	**255**	**233**	**136**	**170**
Strontium	mg/L	**0.713**	**0.805**	**0.744**	**0.800**	**0.744**	**0.692**	**0.671**	**0.471**	**0.524**	**0.778**	**0.780**	**0.769**	**0.745**	**0.765**	**0.723**	**0.836**	**0.454**	**0.533**
Vanadium		0.00254 J	0.00198 J	0.00182 J	0.00144 J	0.00233 J	0.00141 J	0.00222 J	0.00304 J	0.00240 J	0.00320 J	0.00174 J	0.00200 J	0.00148 J	0.00124 J	0.00156 J	0.00160 J	<0.0006	0.00196 J
Zinc	mg/L	0.00313 J	**0.00403**	**0.0127**	**0.00702**	<0.002	0.00327 J	**0.00789**	0.00375 J	0.00421 J	0.00327 J	**0.00721**	**0.0172**	<0.002	<0.002	0.00232 J	0.00214 J	0.00231 J	0.00527 J
Anions/Wateruality Parameters																			
Bicarbonate Alkalinity	mg/L	**193**	**160**	**160**	**137**	**152**	**182**	**141**	**140**	**168**	**189**	**163**	**163**	**141**	**150**	**186**	**134**	**121**	**166**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<3	**5.20**	<3	<3	8.80 J	<1.2	<1.2	<3	<3	<3	**5.40**	<3	<3	**10.4**	<1.2	<1.2
Chloride	mg/L	**482**	**532**	**540**	**443**	**402**	**428**	**393**	**207**	**290**	**477**	**552**	**551**	**441**	**404**	**424**	**400**	**222**	**284**
Sulfate	mg/L	**89.2**	**146**	**176**	**196**	**204**	**195**	**162**	**89.1**	**62.7**	**89.5**	**149**	**181**	**196**	**214**	**194**	**167**	**83.2**	**63.0**
Total Dissolved Solids (TDS)	mg/L	**1,070**	**1,100**	**1,030**	**1,010**	**1,000**	**1,060**	**1,180**	**696**	**756**	**1,110**	**1,050**	**1,240**	**1,020**	**1,090**	**1,100**	**1,010**	**728**	**734**
pH	SI	7.95 H	7.57 H	7.69 H	8.18 H	7.62 H	8.02 H	8.45 H	7.67 H	7.96 H	8.00 H	7.57 H	7.91 H	8.06 H	7.67 H	8.17 H	8.50 H	8.19 H	8.02 H
Field pH	SI	**7.80**	**7.52**	**7.77**	**8.37**	**7.83**	**8.24**	**7.69**	**7.05**	**6.95**	**7.85**	**7.39**	**7.78**	**8.36**	**8.00**	**8.46**	**7.53**	**7.73**	**7.21**
Sulfides																			
Hydrogen Sulfide	mg/L	**3.57**	**1.62**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.62**	<0.5	<0.5	<0.5	**1.40**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulfide	mg/L	**3.36**	1.52 J	<1.2	<1.2	<0.92	<0.92	<0.92	1.52 J	<0.92	<1.2	<1.2	1.32 J	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds																			
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092
TPH Fractions																			
Aliphatics >C6-C8	mg/L	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	<0.333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	0.0519 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 8									LDNR 9								
	Sample Date	10/23/24	11/19/24	12/18/24	1/29/25	2/24/25	3/19/25	4/22/25	7/23/25	10/22/25	10/24/24	11/21/24	12/17/24	1/27/25	2/19/25	3/19/25	4/23/25	7/23/25	10/22/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**																	
Total Metals																			
Arsenic	mg/L	0.00140 J	0.00156 J	0.00104 J	0.000674 J	0.000697 J	0.000970 J	0.00129 J	0.00110 J	0.000888 J	**0.00484**	0.00146 J	0.00130 J	0.000961 J	0.00110 J	**0.00290**	**0.00638**	**0.00490**	**0.00255**
Barium	mg/L	**0.295**	**0.276**	**0.257**	**0.121**	**0.128**	**0.104**	**0.112**	**0.115**	**0.239**	**0.252**	**0.126**	**0.122**	**0.0817**	**0.0708**	**0.0921**	**0.181**	**0.154**	**0.206**
Calcium	mg/L	**92.2**	**84.9**	**103**	**96.6**	**96.8**	**100**	**115**	**51.0**	**74.7**	**68.9**	**94.8**	**103**	**78.4**	**74.8**	**78.0**	**74.2**	**47.8**	**52.6**
Chromium	mg/L	<0.0004	0.000823 J	0.000617 J	0.00314 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.00173	0.000633 J	<0.0004	0.000589 J	0.000765 J	0.000747 J	<0.0004	0.000446 J	0.000780 J	<0.00173
Iron	mg/L	0.0224 J	0.0339 J	0.0201 J	0.0461 J	0.0997 J	0.0293 J	<0.012	0.0326 J	<0.06	**1.76**	0.143 J	0.143 J	**1.17**	**0.238**	**0.918**	**0.518**	**0.976**	**1.24**
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000498 J
Magnesium	mg/L	**22.3**	**21.4**	**24.7**	**21.1**	**21.2**	**22.9**	**23.3**	**13.0**	**14.7**	**10.6**	**11.6**	**11.4**	**8.86**	**8.69**	**9.32**	**8.92**	**6.62**	**7.23**
Manganese	mg/L	**0.383**	**0.345**	**0.253**	**0.0996**	**0.0656**	**0.139**	**0.136**	**0.283**	**0.295**	**2.82**	0.142 J	**0.243**	**0.384**	**0.156**	**0.290**	**0.841**	**0.246**	**0.193**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.00110 J	0.00119 J	0.00129 J	**0.00230**	0.00114 J	0.00106 J	0.000971 J	<0.0006	<0.0013	0.00113 J	0.00142 J	0.00170 J	0.00164 J	**0.00244**	**0.00207**	**0.00216**	0.00150 J	0.00134 J
Potassium	mg/L	**2.88**	**2.69**	**3.11**	**2.72**	**2.86**	**2.52**	**2.00**	**1.58**	**2.78**	**3.76**	**2.09**	**2.36**	**2.06**	**2.05**	**2.18**	**2.69**	**2.50**	**1.58**
Sodium	mg/L	**302**	**325**	**310**	**254**	**226**	**247**	**244**	**173**	**180**	**251**	**163**	**169**	**127**	**149**	**200**	**178**	**85.2**	**115**
Strontium	mg/L	**0.745**	**0.713**	**0.795**	**0.716**	**0.763**	**0.764**	**0.862**	**0.453**	**0.557**	**0.532**	**0.623**	**0.594**	**0.466**	**0.450**	**0.499**	**0.468**	**0.381**	**0.413**
Vanadium		0.00336 J	0.00154 J	0.00205 J	0.00110 J	0.00130 J	0.00183 J	0.00193 J	0.000694 J	0.00185 J	0.00228 J	<0.0006	<0.0006	0.000959 J	0.000738 J	0.00162 J	0.00465 J	**0.00576**	0.00318 J
Zinc	mg/L	0.00208 J	0.00350 J	**0.00991**	0.00200 J	**0.0302**	0.00260 J	0.00245 J	0.00201 J	0.00594 J	**0.0244**	0.0026 J	**0.00410**	0.00332 J	0.00230 J	**0.00621**	**0.00468**	**0.00861**	**0.0268**
Anions/Wateruality Parameters																			
Bicarbonate Alkalinity	mg/L	**196**	**168**	**170**	**140**	**150**	**134**	**133**	**87.2**	**167**	**322**	**130**	**148**	**172**	**203**	**223**	**262**	**163**	**184**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	**0.136**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<3	4.00 J	<3	<3	**10.8**	**18.2**	<1.2	<3	<3	<3	<3	<3	<3	**21.2**	**12.2**	<1.2
Chloride	mg/L	**482**	**526**	**539**	**405**	**344**	**421**	**412**	**302**	**287**	**285**	**224**	**197**	**160**	**201**	**205**	**254**	**99.1**	**136**
Sulfate	mg/L	**89.9**	**140**	**169**	**182**	**174**	**194**	**170**	**81.5**	**64.0**	**8.10**	**300**	**255**	**161**	**140**	**90.8**	**17.2**	**21.7**	**17.3**
Total Dissolved Solids (TDS)	mg/L	**1,090**	**1,000**	**1,050**	**956**	**960**	**884**	**1,350**	**836**	**920**	**888**	**778**	**1,180 H**	**972**	**678**	**702**	**808**	**372**	**886**
pH	SI	8.03 H	7.63 H	7.82 H	8.13 H	7.78 H	7.91 H	8.54 H	8.95 H	7.99 H	7.45 H	7.50 H	7.71 H	7.96 H	8.02 H	7.95 H	8.63 H	8.57 H	7.76 H
Field pH	SI	**7.78**	**7.21**	**7.78**	**8.21**	**7.83**	**8.07**	**6.33**	**8.43**	**5.72**	**7.04**	**7.60**	**7.93**	**8.16**	**8.52**	**8.07**	**7.56**	**7.48**	**7.11**
Sulfides																			
Hydrogen Sulfide	mg/L	**2.51**	<0.5	<0.5	<0.5	<0.5	**1.28**	<0.5	**12.4**	<0.5	**3.23**	**1.62**	<0.5 H	**1.28**	<0.5	<0.5	<0.5	**3.91**	<0.5
Sulfide	mg/L	**2.36**	<1.2	<1.2	<1.2	<0.92	1.20 J	<0.92	**11.7**	<0.92	**3.04**	1.52 J	<1.2 H	1.20 J	<0.92	<0.92	<0.92	3.68 J	<0.92
Volatile Organic Compounds																			
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	0.00097 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00040 J	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092
TPH Fractions																			
Aliphatics >C6-C8	mg/L	<0.0333	<0.167	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	0.0655 J	<0.833	<0.833	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	<0.167	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	<0.833	<0.833	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.167	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.833	<0.833	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 12									LDNR 13								
	Sample Date	10/22/24	11/19/24	12/18/24	1/29/25	2/19/25	3/18/25	4/22/25	7/23/25	10/21/25	10/23/24	11/19/24	12/18/24	1/28/25	2/19/25	3/18/25	4/23/25	7/22/25	10/21/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**																	
Total Metals																			
Arsenic	mg/L	0.00140 J	0.00161 J	0.00104 J	0.000633 J	0.000904 J	0.000963 J	0.00138 J	0.00122 J	0.000888 J	0.00126 J	0.00170 J	0.00102 J	0.000643 J	0.000839 J	0.000847 J	0.00157 J	0.00126 J	0.000890 J
Barium	mg/L	**0.272**	**0.300**	**0.242**	**0.132**	**0.138**	**0.0991**	**0.117**	**0.147**	**0.233**	**0.290**	**0.304**	**0.252**	**0.130**	**0.130**	**0.0842**	**0.124**	**0.231**	**0.244**
Calcium	mg/L	**84.5**	**93.9**	**99.7**	**102**	**112**	**97.8**	**117**	**48.5**	**75.4**	**89.3**	**99.8**	**105**	**99.0**	**110**	**82.2**	**110**	**63.4**	**75.3**
Chromium	mg/L	0.000862 J	0.00116 J	0.000650 J	<0.0004	0.00165 J	0.000442 J	<0.0004	<0.0004	<0.00173	0.000537 J	0.00104 J	0.000590 J	<0.0004	0.00175 J	<0.0004	<0.0004	<0.0004	<0.00173
Iron	mg/L	0.0182 J	0.0229 J	0.0209 J	0.0360 J	0.0700 J	0.0387 J	<0.012	0.0460 J	<0.06	0.0402 J	0.0542 J	0.0194 J	0.0552 J	0.0281 J	**0.527**	0.0709 J	0.0800 J	<0.06
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047
Magnesium	mg/L	**20.7**	**23.3**	**24.4**	**22.3**	**23.7**	**22.1**	**23.9**	**10.9**	**14.9**	**21.5**	**23.9**	**24.8**	**21.8**	**23.0**	**19.1**	**28.2**	**13.0**	**14.9**
Manganese	mg/L	**0.210**	**0.230**	**0.251**	**0.115**	**0.0965**	**0.166**	**0.225**	**0.298**	**0.268**	**0.390**	**0.303**	**0.288**	**0.106**	**0.0631**	**0.0827**	**0.593**	**1.09**	**0.409**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.00127 J	0.00128 J	0.00137 J	0.00120 J	0.00131 J	0.00115 J	0.00124 J	<0.0006	<0.0013	0.00131 J	0.00124 J	0.00190 J	0.00117 J	0.00135 J	**0.00331**	0.00154 J	0.000727 J	<0.0013
Potassium	mg/L	**2.76**	**2.98**	**3.03**	**2.89**	**3.15**	**2.46**	**2.06**	**1.56**	**2.89**	**2.77**	**3.03**	**3.11**	**2.85**	**3.04**	**2.10**	**3.34**	**1.65**	**2.77**
Sodium	mg/L	**293**	**363**	**305**	**264**	**276**	**236**	**208**	**147**	**171**	**287**	**349**	**344**	**271**	**269**	**276**	**304**	**211**	**183**
Strontium	mg/L	**0.710**	**0.799**	**0.780**	**0.769**	**0.749**	**0.737**	**0.858**	**0.439**	**0.551**	**0.719**	**0.802**	**0.801**	**0.750**	**0.736**	**0.671**	**0.764**	**0.521**	**0.557**
Vanadium		0.00384 J	0.00172 J	0.00194 J	0.00150 J	0.00165 J	0.00195 J	0.00198 J	0.00153 J	0.00248 J	0.00291 J	0.00192 J	0.00158 J	0.00144 J	0.00136 J	<0.0006	0.00139 J	0.00184 J	0.00255 J
Zinc	mg/L	<0.002	0.00216 J	0.00254 J	<0.002	**0.130**	**0.00731**	0.00272 J	**0.00548**	**0.0128**	**0.00512**	0.00279 J	**0.00425**	**0.00480**	<0.002	**0.00404**	**0.00447**	**0.00522**	0.00749 J
Anions/Wateruality Parameters																			
Bicarbonate Alkalinity	mg/L	**184**	**166**	**167**	**138**	**156**	**173**	**131**	**81.4**	**167**	**195**	**166**	**177**	**151**	**160**	**170**	**140**	**138**	**169**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3.5	<3	<3	**5.40**	<3	<3	**11.0**	**6.00**	<1.2	<3	<3	<3	<3	<3	<3	6.20 J	<1.2	<1.2
Chloride	mg/L	**476**	**529**	**545**	**414**	**447**	**432**	**420**	**260**	**287**	**477**	**531**	**570**	**460**	**445**	**445**	**449**	**371**	**292**
Sulfate	mg/L	**91.3**	**142**	**170**	**184**	**209**	**198**	**172**	**87.3**	**62.8**	**90.6**	**143**	**171**	**197**	**201**	**193**	**156**	**79.8**	**62.8**
Total Dissolved Solids (TDS)	mg/L	**1,020**	**1,010**	**1,040**	**1,020**	**1,070**	**900**	**1,200**	**664**	**796**	**195**	**1,100**	**916**	**968**	**1,180**	**1,110**	**1,250**	**848**	**776**
pH	SI	8.07 H	7.70 H	7.93 H	7.96 H	7.55 H	8.18 H	8.53 H	8.46 H	8.02 H	7.99 H	7.73 H	7.73 H	8.17 H	7.45 H	8.19 H	8.35 H	7.41 H	8.00 H
Field pH	SI	**7.86**	**7.30**	**7.82**	**8.32**	**7.85**	**8.51**	**8.47**	**8.55**	**6.98**	**7.85**	**7.33**	**7.97**	**8.15**	**7.85**	**8.39**	NM	**7.03**	**6.58**
Sulfides																			
Hydrogen Sulfide	mg/L	<0.5	<0.5	<0.5	**1.28**	<0.5	<0.5	<0.5	0.722 J	<0.5	<0.5	0.850 J	<0.5	<0.5	<0.5	<0.5	<0.5	**12.4**	<0.5
Sulfide	mg/L	<1.2	<1.2	<1.2	1.20 J	<0.92	<0.92	<0.92	<0.92	<0.92	<1.2	<1.2	<1.2	<1.2	<0.92	<0.92	<0.9	**11.7**	<0.92
Volatile Organic Compounds																			
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092
TPH Fractions																			
Aliphatics >C6-C8	mg/L	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.167	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	<0.167	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.167	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.004	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 14									LDNR 17								
	Sample Date	10/23/24	11/19/24	12/18/24	1/28/25	2/19/25	3/18/25	4/23/25	7/22/25	10/21/25	10/21/24	11/21/24	12/18/24	1/29/25	2/18/25	3/18/25	4/22/25	7/22/25	10/22/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**																	
Total Metals																			
Arsenic	mg/L	0.00139 J	0.00163 J	0.000930 J	0.000707 J	0.000745 J	0.00101 J	0.00134 J	0.00109 J	0.000955 J	0.00153 J	0.00101 J	0.00117 J	0.000918 J	0.000818 J	0.000814 J	0.00114 J	0.000997 J	0.000984 J
Barium	mg/L	**0.300**	**0.304**	**0.244**	**0.123**	**0.128**	**0.0987**	**0.103**	**0.183**	**0.255**	**0.284**	**0.294**	**0.267**	**0.137**	**0.156**	**0.0915**	**0.109**	**0.173**	**0.230**
Calcium	mg/L	**94.5**	**99.7**	**99.2**	**96.0**	**110**	**99.0**	**106**	**60.4**	**79.1**	**90.9**	**93.6**	**109**	**102**	**107**	**90.7**	**110**	**61.2**	**78.9**
Chromium	mg/L	0.000403 J	0.00103 J	0.000526 J	<0.0004	0.00130 J	<0.0004	<0.0004	<0.0004	<0.00173	0.000828 J	<0.0004	0.000890 J	<0.0004	0.000544 J	<0.0004	<0.0004	0.00158 J	<0.00173
Iron	mg/L	0.0225 J	0.0503 J	0.0257 J	0.0323 J	0.127 J	**0.242**	0.0135 J	0.0248 J	<0.06	0.0134 J	0.0522 J	0.0812 J	0.102 J	0.0285 J	0.0773 J	<0.012	0.0792 J	<0.06
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047
Magnesium	mg/L	**22.9**	**23.8**	**23.7**	**21.0**	**23.3**	**22.8**	**26.2**	**12.6**	**15.4**	**21.8**	**22.7**	**25.5**	**21.8**	**23.0**	**20.6**	**21.7**	**12.6**	**15.2**
Manganese	mg/L	**0.387**	**0.303**	**0.304**	**0.0324**	**0.0682**	**0.192**	**0.297**	**0.444**	**0.376**	**0.180**	**0.245**	**0.342**	**0.204**	**0.154**	**0.196**	**0.189**	**0.706**	**0.326**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.00131 J	0.00138 J	0.00129 J	0.00122 J	0.00132 J	0.00183 J	0.00148 J	0.000618 J	<0.0013	0.00144 J	0.00106 J	**0.00299**	0.00172 J	0.00161 J	0.00113 J	0.00120 J	0.000761 J	<0.0013
Potassium	mg/L	**2.97**	**3.02**	**2.95**	**2.71**	**3.06**	**2.47**	**2.96**	**1.70**	**2.90**	**2.92**	**2.80**	**3.25**	**3.01**	**3.18**	**2.36**	**1.96**	**2.40**	**2.99**
Sodium	mg/L	**315**	**271**	**301**	**295**	**265**	**285**	**258**	**176**	**195**	**292**	**304**	**311**	**268**	**256**	**246**	**191**	**125**	**178**
Strontium	mg/L	**0.763**	**0.814**	**0.784**	**0.725**	**0.730**	**0.740**	**0.683**	**0.503**	**0.596**	**0.731**	**0.775**	**0.792**	**0.758**	**0.800**	**0.682**	**0.795**	**0.448**	**0.555**
Vanadium		0.00331 J	0.00187 J	0.00176 J	0.00129 J	0.00140 J	0.00107 J	0.00204 J	0.00126 J	0.00260 J	0.00496 J	0.00175 J	0.00196 J	0.00255 J	0.00166 J	0.00150J	0.00213 J	0.00274 J	0.00177 J
Zinc	mg/L	**0.00623**	0.00333 J	<0.002	<0.002	<0.002	**0.0159**	**0.00706**	**0.00407**	0.00626 J	<0.002	<0.002	0.00373 J	**0.00618**	0.00338 J	**0.0896**	0.00341 J	**0.0105**	0.00314 J
Anions/Wateruality Parameters																			
Bicarbonate Alkalinity	mg/L	**182**	**160**	**180**	**147**	**156**	**190**	**134**	**112**	**171**	**199**	**160**	**163**	**140**	**165**	**178**	**136**	**136**	**167**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<3	**5.80**	<3	<3	9.20 J	<1.2	<1.2	<3.5	<3	<3	<3	<3	<3	9.20 J	<1.2	<1.2
Chloride	mg/L	**497**	**543**	**559**	**452**	**436**	**433**	**416**	**300**	**291**	**488**	**551**	**527**	**437**	**424**	**418**	**405**	**200**	**284**
Sulfate	mg/L	**90.6**	**146**	**171**	**199**	**197**	**197**	**163**	**83.8**	**62.8**	**91.9**	**148**	**166**	**216**	**212**	**204**	**170**	**69.6**	**62.1**
Total Dissolved Solids (TDS)	mg/L	**1,050**	**1,070**	**1,070**	**1,010**	**1,020**	**852**	**1,200**	**744**	**778**	**1,020**	**1,100**	**1,290 H**	**904**	**1,130**	**1,050**	**1,070**	**596**	**658**
pH	SI	8.05 H	7.50 H	7.66 H	8.23 H	7.70 H	8.44 H	8.47 H	8.03 H	7.98 H	7.86 H	7.53 H	7.36 H	7.62 H	5.63 H	7.75 H	8.46 H	7.61 H	7.91 H
Field pH	SI	**7.90**	**7.33**	**7.76**	**8.38**	**7.83**	**8.58**	NM	**7.36**	**6.73**	**7.43**	**7.55**	**7.56**	**7.86**	**7.60**	**7.82**	**7.72**	**7.05**	**7.37**
Sulfides																			
Hydrogen Sulfide	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	**1.28**	<0.5	<0.5	<0.5	**1.28**	0.552 J	<0.5 H	<0.5	<0.5	<0.5	<0.5	0.552 J	**1.78**
Sulfide	mg/L	<1.2	<1.2	<1.2	<1.2	<0.92	1.20 J	<0.92	<0.92	<0.92	1.20 J	<1.2	<1.2 H	<1.2	<0.92	<0.92	<0.92	<0.92	1.68 J
Volatile Organic Compounds																			
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092
TPH Fractions																			
Aliphatics >C6-C8	mg/L	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	<0.0333	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.008	<0.025	<0.025	<0.025	0.0307 J	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.004	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 18									LDNR 19						
	Sample Date	10/23/24	11/19/24	12/18/24	1/29/25	2/19/25	3/19/25	4/22/25	7/24/25	10/22/25	11/21/24	12/17/24	1/27/25	2/19/25	3/19/25	4/23/25	7/23/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**															
Total Metals																	
Arsenic	mg/L	0.00135 J	**0.00218**	0.00104 J	0.000648 J	0.000781 J	0.00101 J	0.00120 J	0.000923 J	0.00111 J	0.00169 J	0.00118 J	0.000965 J	0.00102 J	**0.00272**	**0.00584**	**0.00517**
Barium	mg/L	**0.282**	**0.282**	**0.261**	**0.126**	**0.142**	**0.105**	**0.106**	**0.176**	**0.243**	**0.144**	**0.116**	**0.0809**	**0.0701**	**0.0917**	**0.167**	**0.167**
Calcium	mg/L	**88.9**	**87.1**	**103**	**97.9**	**95.1**	**105**	**112**	**65.0**	**79.5**	**100**	**97.2**	**77.8**	**72.8**	**76.6**	**70.5**	**50.5**
Chromium	mg/L	<0.0004	0.000894 J	0.000726 J	<0.0004	0.000768 J	<0.0004	<0.0004	<0.0004	0.00203 J	<0.0004	0.000451 J	0.000448 J	0.000650 J	<0.0004	0.000440 J	<0.0004
Iron	mg/L	0.0162 J	0.0438 J	0.0654 J	0.0450 J	0.0441 J	0.0322 J	<0.012	0.0591 J	<0.06	**0.348**	0.0613 J	**0.878**	**0.212**	**1.12**	**0.222**	**1.13**
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Magnesium	mg/L	**21.0**	**21.2**	**24.8**	**21.1**	**22.2**	**23.7**	**22.2**	**13.5**	**15.5**	**11.8**	**10.8**	**8.56**	**8.55**	**8.95**	**8.30**	**6.75**
Manganese	mg/L	**0.254**	**0.297**	**0.251**	**0.104**	**0.105**	**0.135**	**0.137**	**1.60**	**0.368**	**0.122**	**0.254**	**0.282**	**0.175**	**0.388**	**0.772**	**0.303**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.0000300 J	<0.00003	<0.00003
Nickel	mg/L	0.00102 J	0.00126 J	0.00118 J	0.00130 J	0.00133 J	0.00113 J	0.00120 J	<0.0006	<0.0013	0.00154 J	0.00187 J	0.00162 J	0.00165 J	0.00175 J	0.00179 J	0.00139 J
Potassium	mg/L	**2.73**	**2.80**	**3.08**	**2.79**	**2.99**	**2.60**	**1.98**	**2.58**	**3.01**	**2.13**	**2.23**	**2.03**	**1.98**	**2.09**	**2.59**	**2.56**
Sodium	mg/L	**285**	**320**	**296**	**276**	**282**	**262**	**198**	**129**	**188**	**171**	**164**	**124**	**150**	**205**	**172**	**86.5**
Strontium	mg/L	**0.723**	**0.738**	**0.774**	**0.737**	**0.729**	**0.786**	**0.813**	**0.466**	**0.578**	**0.655**	**0.586**	**0.465**	**0.455**	**0.488**	**0.438**	**0.381**
Vanadium		0.00307 J	0.00213 J	0.00196 J	0.00136 J	0.00128 J	0.00177 J	0.00210 J	0.00101 J	0.00176 J	<0.0006	<0.0006	0.000651 J	0.000741 J	0.00208 J	0.00439 J	**0.00715**
Zinc	mg/L	<0.002	**0.00429**	0.00302 J	**0.00942**	<0.002	<0.002	0.00316 J	0.00281 J	<0.003	**0.00672**	0.00392 J	**0.00847**	**0.00629**	**0.0143**	**0.00832**	**0.00683**
Anions/Wateruality Parameters																	
Bicarbonate Alkalinity	mg/L	**196**	**161**	**163**	**133**	**154**	**138**	**133**	**149**	**166**	**138**	**154**	**194**	**196**	**252**	**265**	**164**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<3	<3	<3	<3	**10.2**	<1.2	<1.2	<3	<3	<3	<3	<3	**19.8**	**10.8**
Chloride	mg/L	**481**	**524**	**550**	**430**	**437**	**424**	**401**	**214**	**286**	**220**	**207**	**157**	**194**	**257**	**179**	**97.4**
Sulfate	mg/L	**90.9**	**156**	**169**	**204**	**214**	**199**	**169**	**74.0**	**63.0**	**290**	**281**	**158**	**136**	**90.8**	**17.0**	**22.4**
Total Dissolved Solids (TDS)	mg/L	**1,090**	**1,000**	**1,190 H**	**1,020**	**1,060**	**1,020**	**1,120**	**640**	**612**	**724**	**632**	**616**	**672**	**668**	**672**	**460**
pH	SI	8.05 H	7.73 H	7.50 H	7.74 H	7.75 H	7.94 H	8.50 H	7.54 H	7.92 H	7.48 H	7.75 H	8.09 H	7.46 H	7.83 H	8.60 H	8.52 H
Field pH	SI	**7.92**	**7.51**	**7.74**	**8.17**	**7.70**	**8.04**	**7.76**	**6.90**	**7.32**	NM	NM	**7.26**	**8.29**	**8.21**	**7.79**	**8.12**
Sulfides																	
Hydrogen Sulfide	mg/L	<0.5	0.638 J	<0.5	<0.5	<0.5	<0.5	<0.5	0.552 J	<0.5	**1.62**	**1.62**	<0.5	<0.5	<0.5	<0.5	0.722 J
Sulfide	mg/L	<1.2	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92	1.52 J	1.52 J	<1.2	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds																	
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092
TPH Fractions																	
Aliphatics >C6-C8	mg/L	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	0.0377 J	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.333	<0.167	<0.0004	<0.0004	0.000562 J	0.000414 J	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	0.0333 J	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

Constituent	Units	LDNR Sample No.	LDNR 21									LDNR 22								
		Sample Date	10/23/24	11/21/24	12/18/24	1/29/25	2/19/25	3/19/25	4/22/25	7/24/25	10/22/25	10/22/24	11/19/24	12/18/24	1/29/25	2/19/25	3/19/25	4/22/25	7/24/25	10/22/25
		Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
		Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
			Bubble Site (Surface Water)																	
Total Metals																				
Arsenic	mg/L		0.00142 J	0.00101 J	0.00114 J	0.000606 J	0.000822 J	0.000910 J	0.00128 J	0.00106 J	0.00105 J	0.00145 J	0.00165 J	0.00110 J	0.000687 J	0.000968 J	0.000822 J	0.00145 J	0.00114 J	0.000990 J
Barium	mg/L		**0.281**	**0.279**	**0.266**	**0.130**	**0.138**	**0.0979**	**0.107**	**0.206**	**0.255**	**0.291**	**0.310**	**0.259**	**0.119**	**0.139**	**0.0910**	**0.104**	**0.184**	**0.250**
Calcium	mg/L		**89.7**	**88.7**	**109**	**101**	**108**	**95.2**	**116**	**63.8**	**83.0**	**94.7**	**97.6**	**105**	**89.2**	**105**	**87.9**	**110**	**63.0**	**78.1**
Chromium	mg/L		<0.0004	<0.0004	0.000620 J	<0.0004	0.00160 J	<0.0004	<0.0004	<0.0004	<0.00173	0.00103 J	0.00139 J	0.000910 J	<0.0004	0.00160 J	<0.0004	<0.0004	<0.0004	<0.00173
Iron	mg/L		0.0254 J	0.0268 J	0.0269 J	0.0473 J	0.0407 J	0.0316 J	<0.012	0.0529 J	<0.06	0.0502 J	0.0315 J	0.0244 J	0.0401 J	0.0581 J	0.0292 J	0.0135 J	0.0432 J	<0.06
Lead	mg/L		<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047
Magnesium	mg/L		**21.0**	**22.0**	**25.9**	**21.2**	**22.1**	**22.9**	**23.2**	**13.4**	**16.3**	**22.4**	**24.5**	**24.9**	**19.7**	**22.6**	**22.5**	**21.7**	**14.4**	**14.6**
Manganese	mg/L		**0.283**	**0.253**	**0.265**	**0.101**	**0.124**	**0.117**	**0.133**	**2.09**	**0.384**	**0.246**	**0.233**	**0.260**	**0.0924**	**0.121**	**0.113**	**0.135**	**2.57**	**0.321**
Mercury	mg/L		<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L		0.00117 J	0.00101 J	0.00135 J	0.00132 J	0.00132 J	0.00113 J	0.000841 J	<0.0006	<0.0013	0.00140 J	0.00131 J	0.00138 J	0.00112 J	0.00139 J	0.00100 J	0.00199 J	<0.0006	<0.0013
Potassium	mg/L		**2.74**	**2.73**	**3.25**	**2.89**	**2.95**	**2.49**	**2.04**	**2.42**	**3.13**	**3.00**	**3.11**	**3.13**	**2.58**	**2.94**	**2.45**	**2.00**	**2.43**	**2.85**
Sodium	mg/L		**298**	**285**	**315**	**253**	**279**	**265**	**195**	**125**	**200**	**291**	**362**	**314**	**230**	**284**	**266**	**190**	**142**	**168**
Strontium	mg/L		**0.703**	**0.734**	**0.798**	**0.763**	**0.692**	**0.734**	**0.842**	**0.506**	**0.598**	**0.757**	**0.811**	**0.780**	**0.694**	**0.696**	**0.685**	**0.806**	**0.485**	**0.566**
Vanadium			0.00396 J	0.00167 J	0.00195 J	0.00151 J	0.00172 J	0.00167 J	0.00187 J	0.000889 J	0.00180 J	0.00400 J	0.00180 J	0.00194 J	0.00143 J	0.00160 J	0.00170 J	0.00248 J	0.000900 J	0.00182 J
Zinc	mg/L		0.00298 J	0.00342 J	**0.0113**	**0.00435**	0.00385 J	<0.002	0.00210 J	0.00220 J	<0.003	**0.00828**	**0.00554**	0.00209 J	0.00334 J	**0.136**	<0.002	**0.00893**	0.00263 J	<0.003
Anions/Wateruality Parameters																				
Bicarbonate Alkalinity	mg/L		**192**	**161**	**160**	**137**	**145**	**138**	**130**	**148**	**166**	**191**	**167**	**167**	**138**	**152**	**134**	**132**	**127**	**169**
Bromide	mg/L		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L		<3	<3	<3	<3	<3	<3	10.00 J	<1.2	<1.2	<3.5	<3	<3	3.20 J	<3	<3	10.00 J	<1.2	<1.2
Chloride	mg/L		**488**	**549**	**536**	**431**	**438**	**418**	**390**	**215**	**288**	**491**	**524**	**534**	**449**	**433**	**418**	**393**	**228**	**284**
Sulfate	mg/L		**90.8**	**152**	**164**	**201**	**210**	**197**	**164**	**73.9**	**63.0**	**91.8**	**142**	**162**	**201**	**205**	**195**	**165**	**79.0**	**63.3**
Total Dissolved Solids (TDS)	mg/L		**980**	**1,020**	**1,240 H**	**1,030**	**2,260**	**1,020**	**1,120**	**652**	**738**	**1,020**	**1,120**	**1,260 H**	**1,040**	**1,000**	**920**	**1,160**	**632**	**932**
pH	SI		8.04 H	7.66 H	7.60 H	7.89 H	7.77 H	7.86 H	8.50 H	7.57 H	7.93 H	8.03 H	7.78 H	7.75 H	8.12 H	7.84 H	7.92 H	8.51 H	7.61 H	7.93 H
Field pH	SI		**7.95**	**7.60**	**7.70**	**8.10**	**7.84**	**7.99**	**7.94**	**7.06**	**7.47**	**7.83**	**7.66**	**7.82**	**8.18**	**7.61**	**8.09**	**8.03**	**7.52**	**7.31**
Sulfides																				
Hydrogen Sulfide	mg/L		**2.51**	**1.62**	<0.5 H	<0.5	<0.5	<0.5	<0.5	0.552 J	<0.5	<0.5	<0.5	<0.5 H	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulfide	mg/L		**2.36**	1.52 J	<1.2 H	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92	<1.2	<1.2	<1.2 H	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds																				
Benzene	mg/L		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028
Ethylbenzene	mg/L		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033
Toluene	mg/L		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033
m,p-Xylene	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	0.0010 J	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061
o-Xylene	mg/L		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	0.00055 J	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031
Xylenes, Total	mg/L		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	0.0016 J	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092
TPH Fractions																				
Aliphatics >C6-C8	mg/L		<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L		<0.0333	<0.0333	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	<0.0333	<0.0333	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.0227**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L		<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.004	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.120**	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 23									LDNR 24							
	Sample Date	10/23/24	11/21/24	12/18/24	1/29/25	2/24/25	3/20/25	4/22/25	7/25/25	10/22/25	10/21/24	11/20/24	12/17/24	1/28/25	2/18/25	3/17/25	4/21/25	7/22/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**																
Total Metals																		
Arsenic	mg/L	0.00146 J	0.00108 J	0.00112 J	0.000674 J	0.000731 J	0.00108 J	0.00127 J	0.00103 J	0.000995 J	**0.00268**	0.00116 J	**0.00295**	0.000873 J	0.000780 J	0.000945 J	**0.00200**	0.00129 J
Barium	mg/L	**0.302**	**0.292**	**0.247**	**0.123**	**0.128**	**0.103**	**0.0978**	**0.261**	**0.266**	**0.395**	**0.315**	**0.362**	**0.173**	**0.155**	**0.0864**	**0.132**	**0.261**
Calcium	mg/L	**89.1**	**92.6**	**98.4**	**95.0**	**97.9**	**120**	**109**	**60.0**	**72.8**	**89.1**	**89.6**	**103**	**97.9**	**98.0**	**88.9**	**106**	**74.3**
Chromium	mg/L	<0.0004	0.000472 J	0.000536 J	<0.0004	0.000462 J	<0.0004	0.000584 J	<0.0004	<0.00173	0.00144 J	0.000423 J	0.00105 J	0.000713 J	0.000434 J	0.000573 J	<0.0004	<0.0004
Iron	mg/L	0.0248 J	0.0978 J	0.0293 J	0.0425 J	0.0944 J	0.0291 J	0.0125 J	0.0887 J	<0.06	**0.463**	0.179 J	0.0602 J	0.0440 J	0.0383 J	**0.230**	0.0319 J	0.0671 J
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	0.00198 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Magnesium	mg/L	**21.7**	**22.9**	**23.6**	**20.7**	**20.9**	**21.6**	**21.6**	**12.1**	**14.0**	**21.2**	**21.1**	**24.4**	**22.0**	**21.3**	**19.8**	**21.3**	**13.4**
Manganese	mg/L	**0.446**	**0.318**	**0.272**	**0.138**	**0.112**	**0.158**	**0.115**	**3.54**	**0.429**	**1.10**	**0.329**	**0.872**	**0.327**	**0.133**	**0.117**	**0.340**	**0.512**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	0.00119 J	0.00142 J	0.00129 J	0.00109 J	0.00117 J	0.00105 J	0.00192 J	0.000708 J	<0.0013	**0.00243**	0.000945 J	**0.00206**	0.00158 J	0.00129 J	**0.00302**	0.00102 J	0.000762 J
Potassium	mg/L	**2.87**	**2.84**	**3.00**	**2.72**	**2.88**	**2.37**	**1.96**	**2.33**	**2.78**	**3.27**	**2.83**	**3.26**	**2.97**	**2.92**	**2.35**	**1.98**	**2.59**
Sodium	mg/L	**299**	**297**	**293**	**267**	**225**	**275**	**226**	**121**	**163**	**239**	**288**	**325**	**318**	**268**	**248**	**225**	**136**
Strontium	mg/L	**0.742**	**0.748**	**0.762**	**0.721**	**0.752**	**0.799**	**0.809**	**0.463**	**0.553**	**0.724**	**0.768**	**0.813**	**0.759**	**0.754**	**0.677**	**0.784**	**0.531**
Vanadium		0.00292 J	0.00249 J	0.00203 J	0.00133 J	0.00175 J	0.00203 J	0.00214 J	0.000786 J	0.00282 J	**0.00807**	0.00158 J	0.00462 J	0.00150 J	0.00134 J	0.000960 J	0.00152 J	0.00242 J
Zinc	mg/L	0.00284 J	**0.00421**	0.00273 J	0.00356 J	<0.002	0.00264 J	**0.00709**	0.00204 J	0.00325 J	**0.0412**	**0.00454**	**0.00489**	<0.002	**0.00418**	0.00380 J	**0.0114**	0.00348 J
Anions/Wateruality Parameters																		
Bicarbonate Alkalinity	mg/L	**183**	**155**	**164**	**136**	**150**	**146**	**135**	**130**	**165**	**217**	**159**	**154**	**149**	**162**	**195**	**145**	**163**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<3	**6.80**	<3	<3	9.60 J	<1.2	<1.2	<3.5	<3	<3	<3	<3	<3	6.60 J	<1.2
Chloride	mg/L	**478**	**549**	**545**	**448**	**404**	**426**	**415**	**222**	**294**	**516**	**529**	**581**	**422**	**441**	**422**	**402**	**209**
Sulfate	mg/L	**89.6**	**150**	**170**	**197**	**209**	**196**	**172**	**83.4**	**62.6**	**76.3**	**143**	**181**	**184**	**202**	**194**	**166**	**79.9**
Total Dissolved Solids (TDS)	mg/L	**1,070**	**936**	**1,040**	**1,030**	**1,050**	**1,070**	**1,100**	**604**	**928**	**1,110**	**1,190**	**1,060**	**976**	**1,090**	**612**	**956**	**656**
pH	SI	7.97 H	7.40 H	7.33 H	8.21 H	7.21 H	7.94 H	8.48 H	7.61 H	7.87 H	7.31 H	7.23 H	7.19 H	7.66 H	6.20 H	7.68 H	8.35 H	7.49 H
Field pH	SI	**7.77**	**7.47**	**7.73**	**8.35**	**7.90**	**8.65**	**7.42**	**7.29**	**7.41**	**6.69**	NM	NM	**7.35**	**7.52**	**7.52**	**7.40**	**6.92**
Sulfides																		
Hydrogen Sulfide	mg/L	**2.08**	0.552 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.52**	**1.62**	<0.5	**1.28**	<0.5	**1.28**	<0.5	<0.5
Sulfide	mg/L	1.96 J	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92	**5.20**	1.52 J	<1.2	1.20 J	<0.92	1.20 J	<0.92	<0.92
Volatile Organic Compounds																		
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	**0.0016**	0.00072 J	0.00050 J	0.00061 J	0.00049 J	0.00040 J	0.00077 J	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	**0.0022**	0.00073 J	0.00066 J	0.00069 J	0.00054 J	0.00046 J	0.00081 J	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	<0.00092
TPH Fractions																		
Aliphatics >C6-C8	mg/L	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	**0.588**	**0.196**	<0.167	**0.0652**	**0.0378**	**0.0249**	**0.0860**	**0.153**
Aliphatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	0.0379J	<0.167	<0.0004	<0.0004	<0.0004	0.00124 J	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.002	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.167	0.00879 J	<0.0006	<0.0006	0.00450 J	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.004	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	LDNR 25									LDNR 26							
	Sample Date	10/22/24	11/21/24	12/18/24	1/28/25	2/24/25	3/18/25	4/23/25	7/23/25	10/21/25	10/21/24	11/20/24	12/17/24	1/28/25	2/17/25	3/17/25	4/21/25	7/22/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**																
Total Metals																		
Arsenic	mg/L	0.00139 J	0.00101 J	0.00101 J	0.000678 J	0.000694 J	0.000942 J	0.00135 J	0.00126 J	0.000791 J	0.00151 J	0.00178 J	**0.00203**	0.00138 J	0.00164 J	0.00154 J	0.00179 J	0.00136 J
Barium	mg/L	**0.275**	**0.287**	**0.241**	**0.127**	**0.118**	**0.0925**	**0.113**	**0.241**	**0.229**	**0.424**	**0.456**	**0.452**	**0.417**	**0.478**	**0.453**	**0.512**	**0.391**
Calcium	mg/L	**89.9**	**94.0**	**102**	**96.5**	**96.5**	**96.2**	**108**	**62.4**	**70.8**	**8.63**	**8.95**	**8.72**	**8.79**	**9.77**	**8.70**	**9.28**	**8.75**
Chromium	mg/L	0.000562 J	<0.0004	0.000541 J	0.00128 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.00173	0.000875 J	<0.0004	0.000803 J	<0.0004	0.000413 J	<0.0004	<0.0004	<0.0004
Iron	mg/L	0.0203 J	0.0206 J	0.0269 J	0.0532 J	0.0801 J	0.106 J	<0.012	0.0272 J	<0.06	0.111 J	0.182 J	0.121 J	<0.012	0.147 J	0.106 J	0.0138 J	0.0602 J
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.00047	<0.0006	0.000709 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Magnesium	mg/L	**22.4**	**23.2**	**24.2**	**21.2**	**20.5**	**22.6**	**22.0**	**12.7**	**14.1**	**1.66**	**1.66**	**1.60**	**1.67**	**1.80**	**1.64**	**1.67**	**1.61**
Manganese	mg/L	0.00128 J	**0.135**	**0.192**	**0.0879**	**0.0474**	**0.154**	**0.235**	**1.70**	**0.301**	**0.0358**	**0.047**	**0.0383**	0.00483 J	**0.0216**	**0.00919**	**0.0295**	**0.0126**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	**0.00003**	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.0000420 J	0.0000300 J	<0.00003	<0.00003
Nickel	mg/L	0.00128 J	0.00100 J	0.00120 J	0.00115 J	0.000989 J	0.00128 J	0.00120 J	<0.0006	<0.0013	0.000764 J	0.000728 J	0.00127 J	0.000991 J	0.000862 J	0.000899 J	0.000670 J	**0.00404**
Potassium	mg/L	**3.04**	**2.85**	**3.06**	**2.77**	**2.79**	**2.51**	**1.94**	**1.74**	**2.65**	**1.29**	**1.34**	**1.33**	**1.33**	**1.39**	**1.26**	**1.35**	**1.25**
Sodium	mg/L	**326**	**320**	**319**	**233**	**230**	**264**	**233**	**175**	**168**	**31.7**	**31.4**	**30.9**	**31.2**	**38.9**	**31.5**	**32.1**	**31.1**
Strontium	mg/L	**0.743**	**0.782**	**0.797**	**0.728**	**0.707**	**0.747**	**0.801**	**0.524**	**0.521**	**0.136**	**0.139**	**0.133**	**0.142**	**0.152**	**0.134**	**0.137**	**0.132**
Vanadium		0.00331 J	0.00187 J	0.00191 J	0.00121 J	0.00118 J	0.00121 J	0.00177 J	0.000850 J	0.00222 J	0.00141 J	0.00165 J	0.000967 J	<0.0006	0.00155 J	<0.0006	0.00101 J	0.00142 J
Zinc	mg/L	<0.002	**0.0331**	**0.00975**	<0.002	<0.002	<0.002	0.00236 J	0.00240 J	<0.003	**0.150**	0.00356 J	**0.00405**	0.00282 J	**0.168**	**0.00416**	0.00348 J	0.00232 J
Anions/Wateruality Parameters																		
Bicarbonate Alkalinity	mg/L	**183**	**151**	**167**	**139**	**148**	**225**	**129**	**125**	**168**	**38.3**	**38.9**	**39.4**	**38.1**	**40.4**	**45.0**	**40.2**	**37.9**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	4.60 J	<3	**5.60**	<3	<3	10.00 J	<1.2	<1.2	<3.5	<3	<3	<3	<3	<3	<3	<1.2
Chloride	mg/L	**487**	**556**	**587**	**450**	**406**	**433**	**415**	**307**	**292**	**36.3**	**37.0**	**37.1**	**36.5**	**36.8**	**36.4**	**35.7**	**34.0**
Sulfate	mg/L	**91.7**	**149**	**188**	**199**	**204**	**196**	**165**	**82.2**	**63.1**	**19.6**	**20.3**	**20.2**	**22.0**	**22.6**	**20.7**	**19.9**	**18.5**
Total Dissolved Solids (TDS)	mg/L	**1,050**	**1,180**	**1,020**	**996**	**984**	**960**	**1,080**	**852**	**692**	**138**	**136**	**250**	**132**	**124**	**174**	**130**	**148**
pH	SI	8.18 H	7.91 H	8.00 H	7.53 H	7.70 H	8.19 H	8.49 H	**7.71**	7.93 H	7.71 H	7.53 H	7.23 H	7.73 H	7.92 H	7.44 H	7.95 H	7.94 H
Field pH	SI	**7.95**	**7.95**	**7.90**	**8.40**	**7.85**	**8.52**	NM	**7.24**	**6.33**	**8.55**	**6.83**	**6.86**	**8.40**	**8.00**	**7.01**	**7.87**	**6.20**
Sulfides																		
Hydrogen Sulfide	mg/L	**1.44**	**1.62**	0.552 J	**1.49**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.40**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulfide	mg/L	1.36 J	1.52 J	<1.2	1.40 J	<0.92	<0.92	<0.92	<0.92	<0.92	**3.20**	<1.2	<1.2	<1.2	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds																		
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028	<0.00028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033	<0.00033	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033	<0.00033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061	<0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031	<0.00031	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00030	<0.00092	<0.00092	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092
TPH Fractions																		
Aliphatics >C6-C8	mg/L	<0.0333	<0.0333	<0.167	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0333	<0.0333	<0.0333	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0333	0.0354J	0.0336 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	0.0273 J	<0.025	<0.025	<0.025	<0.002	<0.025	0.0323 J	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	0.0558 J	<0.025	0.0303 J	<0.025	<0.025	<0.025	<0.008	<0.025	**0.131**	0.0558 J	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.0333	<0.167	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0333	<0.0333	<0.0333	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.00826**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.00867**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.003	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	PPG 7BS							
	Sample Date	11/21/24	12/16/24	1/27/25	2/19/25	3/19/25	4/23/25	7/24/25	10/23/25
	Sample Interval (ft)	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Bubble Site (Surface Water)**							
Total Metals									
Arsenic	mg/L	<0.0004	0.00197 J	<0.02	0.00363 J	<0.008	<0.02	<0.02	<0.0255
Barium	mg/L	**0.368**	**0.548**	**1.41**	**1.16**	**1.59**	**1.35**	**1.29**	**2.46**
Calcium	mg/L	**34.4**	**53.1**	**224**	**200**	**240**	**216**	**183**	**221**
Chromium	mg/L	0.00113 J	<0.0004	<0.02	**0.0440**	<0.008	<0.02	<0.02	<0.0865
Iron	mg/L	0.168 J	0.0552 J	<0.6	0.251 J	0.310 J	<0.6	3.04 J	<3
Lead	mg/L	0.000920 J	<0.003	<0.03	<0.006	<0.012	<0.03	<0.03	<0.0235
Magnesium	mg/L	**1.66**	**1.57**	4.63 J	4.13 J	**5.22**	4.44 J	3.90 J	5.38 J
Manganese	mg/L	**0.342**	**0.316**	**0.599**	**0.527**	**0.648**	**0.682**	**0.643**	**0.484**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	**0.0057**	**0.00589**	<0.03	**0.0206**	0.0193 J	<0.03	<0.03	<0.065
Potassium	mg/L	**1.96**	**1.97**	5.08 J	4.55 J	**6.88**	6.39 J	7.87 J	10.3 J
Sodium	mg/L	**1,990**	**9,010**	**42,800**	**41,300**	**50,500**	**44,100**	**39,000**	**51,600**
Strontium	mg/L	**0.290**	**0.393**	**1.09**	**0.801**	**1.10**	**0.970**	**0.984**	**1.32**
Vanadium		<0.0006	0.00316 J	<0.03	0.0174 J	<0.012	<0.03	<0.03	<0.03
Zinc	mg/L	**0.883**	**0.921**	**1.24**	**1.07**	**1.04**	**2.49**	**3.05**	**0.675**
Anions/Wateruality Parameters									
Bicarbonate Alkalinity	mg/L	**98.5**	**104**	**131**	**130**	**138**	**126**	**142**	**231**
Bromide	mg/L	<0.06	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	4.22 J
Carbonate Alkalinity	mg/L	<3	<3	<3	<3	<3	<3	**10.2**	<1.2
Chloride	mg/L	**3,410**	**16,100**	**62,000**	**60,900**	**67,000**	**55,100**	**52,600**	**70,900**
Sulfate	mg/L	**15.9**	**63.8**	**311**	**340**	**388**	**302**	**247**	**233**
Total Dissolved Solids (TDS)	mg/L	**4,820**	**26,200**	**97,300**	**94,500**	**92,700**	**87,200**	**85,600**	**97,700**
pH	SI	7.45 H	7.48 H	7.63 H	7.52 H	7.69 H	8.08 H	8.35 H	8.26 H
Field pH	SI	NM	**7.19**	**5.98**	**7.52**	**7.55**	**6.86**	**7.94**	**7.32**
Sulfides									
Hydrogen Sulfide	mg/L	**1.62**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulfide	mg/L	1.52 J	<1.2	<1.2	<0.92	<0.92	<0.92	<0.92	<0.92
Volatile Organic Compounds									
Benzene	mg/L	0.00026 J	<0.0002	0.00020 J	<0.0002	<0.0002	<0.00028	NA	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00033	NA	<0.00033
Toluene	mg/L	0.0042 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.00033	NA	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00061	NA	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00031	NA	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00092	NA	<0.00092
TPH Fractions									
Aliphatics >C6-C8	mg/L	<0.833	<0.333	<0.0018	<0.0018	<0.0018	<0.0018	NA	**0.0320**
Aliphatics >C8-C10	mg/L	<0.833	<0.333	**0.00527**	0.00351 J	0.00363 J	0.00142 J	NA	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	0.0265 J	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	**0.135**	**0.141**	**0.194**	0.0806 J	<0.025	0.0939 J	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.833	<0.333	**0.0658**	**0.0414**	**0.0441**	0.0181 J	NA	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	Salt Lake Bckgrd	SL-01 Top			SL-01 Bott			SL-02 Top			SL-02 Bott			SL-03 Top		
	Sample Date	10/24/24	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25
	Sample Interval (ft)	Surface		Top			Bottom			Top			Bottom			Top	
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Salt Lake Background**															
Total Metals																	
Arsenic	mg/L	0.00181 J	0.00179 J	0.00171 J	0.00149 J	0.00182 J	0.00168 J	0.00141 J	0.00180 J	0.00161 J	0.00154 J	0.00176 J	0.00159 J	0.00150 J	0.00174 J	0.00158 J	0.00155 J
Barium	mg/L	**0.395**	**0.453**	**0.468**	**0.403**	**0.448**	**0.481**	**0.408**	**0.425**	**0.434**	**0.444**	**0.443**	**0.449**	**0.407**	**0.444**	**0.448**	**0.385**
Calcium	mg/L	**10.9**	**9.45**	**9.47**	**9.25**	**9.21**	**9.92**	**8.90**	**8.97**	**9.28**	**10.0**	**9.13**	**9.24**	**9.55**	**9.26**	**9.51**	**8.83**
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.000437 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.00162 J	<0.0004	<0.0004	0.00155 J
Iron	mg/L	0.153 J	0.0840 J	0.120 J	0.0529 J	0.132 J	0.144 J	0.0650 J	0.0982 J	0.0858 J	0.0655 J	0.0936 J	0.131 J	0.0616 J	0.108 J	0.114 J	0.0537 J
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Magnesium	mg/L	**1.87**	**1.79**	**1.71**	**1.73**	**1.75**	**1.78**	**1.66**	**1.69**	**1.69**	**1.83**	**1.71**	**1.67**	**1.77**	**1.71**	**1.74**	**1.65**
Manganese	mg/L	**0.0462**	**0.0323**	**0.0194**	**0.0134**	**0.0404**	**0.0245**	**0.0141**	**0.0311**	**0.0167**	**0.0147**	**0.0317**	**0.0185**	**0.0136**	**0.0333**	**0.0175**	**0.0110**
Mercury	mg/L	<0.00003	<0.00003	0.0000370 J	<0.00003	<0.00003	0.0000340 J	<0.00003	<0.00003	0.0000520 J	<0.00003	<0.00003	0.0000360 J	<0.00003	<0.00003	0.0000390 J	<0.00003
Nickel	mg/L	**0.00237**	<0.0006	0.000667 J	0.000690 J	0.000702 J	0.000969 J	<0.0006	0.000643 J	0.000657 J	<0.0006	<0.0006	0.000704 J	<0.0006	<0.0006	0.000818 J	<0.0006
Potassium	mg/L	**1.40**	**1.41**	**1.37**	**1.35**	**1.37**	**1.44**	**1.29**	**1.34**	**1.33**	**1.44**	**1.36**	**1.34**	**1.38**	**1.39**	**1.38**	**1.28**
Sodium	mg/L	**32.8**	**33.4**	**32.9**	**33.2**	**32.6**	**34.5**	**31.9**	**31.9**	**32.2**	**35.6**	**32.1**	**31.9**	**33.5**	**32.4**	**32.8**	**31.3**
Strontium	mg/L	**0.147**	**0.149**	**0.15**	**0.133**	**0.144**	**0.153**	**0.132**	**0.142**	**0.143**	**0.148**	**0.143**	**0.147**	**0.141**	**0.144**	**0.148**	**0.132**
Vanadium		**0.00811**	0.00107 J	0.00134 J	0.00137 J	0.00137 J	0.00175 J	0.00153 J	0.00104 J	0.00114 J	0.00166 J	0.00112 J	0.00153 J	0.00152 J	0.00113 J	0.00128 J	0.00120 J
Zinc	mg/L	<0.002	**0.002**	0.00369 J	0.00319 J	**0.002**	0.00341 J	0.00209 J	**0.0115**	0.00208 J	0.00352 J	<0.002	<0.002	0.00252 J	0.00210 J	0.00255 J	0.00264 J
Anions/Wateruality Parameters																	
Bicarbonate Alkalinity	mg/L	**46.0**	**38.0**	**39.7**	**37.1**	**38.8**	**38.9**	**37.7**	**38.9**	**40.0**	**37.6**	**38.6**	**40.2**	**38.0**	**39.2**	**40.3**	**38.2**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<3	<1.2	<3	<3	<1.2	<3	<3	<1.2	<3	<3	<1.2	<3	<3	<1.2
Chloride	mg/L	**35.2**	**36.2**	**37.0**	**33.9**	**36.1**	**37.3**	**33.9**	**36.1**	**36.7**	**33.9**	**36.1**	**36.7**	**33.8**	**36.0**	**36.7**	**33.7**
Sulfate	mg/L	**19.1**	**19.8**	**22.5**	**18.5**	**19.9**	**22.8**	**18.5**	**19.8**	**22.4**	**18.4**	**19.8**	**22.4**	**18.8**	**19.6**	**22.6**	**18.6**
Total Dissolved Solids (TDS)	mg/L	**154**	**130**	**140**	**166**	**128**	**122**	**174**	**132**	**130**	**296**	**148**	**140**	**144**	**146**	**112**	**160**
pH	SI	8.34 H	7.50 H	7.50 H	8.15 H	7.44 H	7.58 H	8.16 H	7.74 H	7.90 H	7.93 H	7.79 H	7.65 H	8.09 H	7.65 H	7.82 H	8.09 H
Field pH	SI	**8.22**	**7.87**	**8.08**	**8.35**	**7.72**	**7.98**	**7.90**	**7.56**	**8.33**	**7.93**	**7.69**	**8.03**	**7.87**	**7.33**	**8.00**	**8.07**
Sulfides																	
Hydrogen Sulfide	mg/L	<0.5	<0.5	<0.5	**3.91**	<0.5	<0.5	0.722 J	<0.5	<0.5	**18.8**	<0.5	<0.5	**1.78**	<0.5	<0.5	<0.5
Sulfide	mg/L	<1.2	<1.2	<0.92	3.68 J	<1.2	<0.92	<0.92	<1.2	<0.92	**17.7**	<1.2	<0.92	1.68 J	<1.2	<0.92	<0.92
Volatile Organic Compounds																	
Benzene	mg/L	<0.0002	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092
TPH Fractions																	
Aliphatics >C6-C8	mg/L	<0.0333	<0.0333	<0.0018	<0.0018	<0.0333	<0.0018	<0.0018	<0.833	<0.0018	<0.0018	<0.167	<0.0018	<0.0018	<0.833	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0333	<0.0333	<0.0004	<0.0004	<0.0333	<0.0004	<0.0004	<0.833	<0.0004	<0.0004	<0.167	<0.0004	<0.0004	<0.833	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	0.0423 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0333	<0.0333	<0.0006	<0.0006	<0.0333	<0.0006	<0.0006	<0.833	<0.0006	<0.0006	<0.167	<0.0006	<0.0006	<0.833	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 2
Surface Water Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	LDNR Sample No.	SL-03 Bott			SL-04 Top			SL-04 Bott			SL-05 Top			SL-05 Bott		
	Sample Date	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25	11/20/24	2/17/25	7/21/25
	Sample Interval (ft)		Bottom			Top			Bottom			Top			Bottom	
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Constituent	**Units**	**Salt Lake Background**														
Total Metals																
Arsenic	mg/L	0.00180 J	0.00175 J	0.00164 J	0.00188 J	0.00168 J	0.00166 J	0.00173 J	0.00165 J	0.00165 J	0.00170 J	0.00161 J	0.00160 J	0.00177 J	0.00168 J	0.00169 J
Barium	mg/L	**0.446**	**0.465**	**0.405**	**0.439**	**0.449**	**0.395**	**0.428**	**0.458**	**0.414**	**0.399**	**0.463**	**0.400**	**0.43**	**0.465**	**0.411**
Calcium	mg/L	**9.21**	**9.73**	**9.31**	**9.04**	**9.45**	**9.49**	**8.87**	**9.74**	**9.62**	**8.58**	**9.57**	**9.32**	**9.25**	**9.62**	**9.68**
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.000405 J	<0.0004	<0.0004	0.000590 J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Iron	mg/L	0.0969 J	0.119 J	0.0457 J	0.117 J	0.0896 J	0.0554 J	0.103 J	0.173 J	0.0523 J	0.0910 J	0.0739 J	0.0434 J	0.121 J	0.108 J	0.0599 J
Lead	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Magnesium	mg/L	**1.73**	**1.74**	**1.72**	**1.69**	**1.73**	**1.76**	**1.70**	**1.79**	**1.79**	**1.61**	**1.73**	**1.75**	**1.75**	**1.75**	**1.79**
Manganese	mg/L	**0.0334**	**0.0179**	**0.0119**	**0.031**	**0.0191**	**0.0135**	**0.0301**	**0.02**	**0.0124**	**0.0286**	**0.0167**	**0.0116**	**0.0313**	**0.0181**	**0.0129**
Mercury	mg/L	<0.00003	0.0000370 J	<0.00003	<0.00003	0.0000370 J	<0.00003	<0.00003	0.0000370 J	<0.00003	<0.00003	0.0000400 J	<0.00003	<0.00003	0.0000400 J	<0.00003
Nickel	mg/L	0.000650 J	0.000846 J	<0.0006	0.000650 J	0.000714 J	0.000620 J	<0.0006	0.000734 J	<0.0006	<0.0006	0.000632 J	<0.0006	0.000614 J	0.000712 J	<0.0006
Potassium	mg/L	**1.39**	**1.39**	**1.36**	**1.35**	**1.39**	**1.39**	**1.32**	**1.42**	**1.41**	**1.27**	**1.37**	**1.36**	**1.39**	**1.40**	**1.40**
Sodium	mg/L	**32.8**	**33.9**	**32.8**	**31.9**	**32.8**	**33.9**	**31.5**	**33.5**	**33.8**	**30.5**	**33.1**	**33.0**	**33.3**	**33.2**	**34.0**
Strontium	mg/L	**0.148**	**0.149**	**0.137**	**0.142**	**0.15**	**0.136**	**0.141**	**0.151**	**0.140**	**0.133**	**0.145**	**0.141**	**0.144**	**0.147**	**0.141**
Vanadium		0.00109 J	0.00123 J	0.00125 J	0.00115 J	0.00118 J	0.00123 J	0.00104 J	0.00126 J	0.00128 J	0.000937 J	0.00110 J	0.00135 J	0.00112 J	0.00128 J	0.00126 J
Zinc	mg/L	0.00326 J	**0.0123**	0.00234 J	**0.0134**	**0.00511**	0.00320 J	**0.0103**	<0.002	0.00218 J	<0.002	**0.0108**	0.00308 J	0.00214 J	0.00243 J	0.00232 J
Anions/Wateruality Parameters																
Bicarbonate Alkalinity	mg/L	**38.4**	**39.6**	**36.9**	**38.2**	**43.5**	**37.7**	**38.3**	**39.3**	**37.2**	**38.0**	**41.8**	**41.1**	**37.9**	**40.4**	**37.9**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<3	<3	<1.2	<3	<3	<1.2	<3	<3	<1.2	<3	<3	<1.2	<3	<3	<1.2
Chloride	mg/L	**36.0**	**36.8**	**33.6**	**36.1**	**36.5**	**33.7**	**36.3**	**36.7**	**33.7**	**36.0**	**36.6**	**33.7**	**36.0**	**36.7**	**33.8**
Sulfate	mg/L	**19.7**	**22.6**	**18.4**	**19.8**	**22.4**	**18.5**	**19.9**	**22.5**	**18.5**	**19.8**	**22.3**	**18.5**	**19.8**	**22.4**	**18.4**
Total Dissolved Solids (TDS)	mg/L	**118**	**110**	**148**	**148**	**120**	**156**	**106**	**118**	**164**	**166**	**128**	**148**	**148**	**126**	**166**
pH	SI	7.71 H	7.63 H	8.12 H	7.85 H	8.41 H	8.13 H	7.55 H	8.12 H	7.98 H	7.79 H	7.99 H	8.05 H	7.70 H	7.75 H	7.97 H
Field pH	SI	**7.40**	**8.22**	**7.99**	**7.56**	**8.16**	**7.76**	**7.48**	**8.23**	**7.96**	**7.40**	**8.23**	**6.80**	**7.44**	**8.25**	**6.39**
Sulfides																
Hydrogen Sulfide	mg/L	<0.5	<0.5	**26.2**	0.552 J	<0.5	**10.3**	<0.5	<0.5	**23.0**	**1.62**	<0.5	**28.1**	<0.5	<0.5	**23.0**
Sulfide	mg/L	<1.2	<0.92	**24.7**	<1.2	<0.92	**9.68**	<1.2	<0.92	**21.7**	1.52 J	<0.92	**26.5**	<1.2	<0.92	**21.7**
Volatile Organic Compounds																
Benzene	mg/L	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.00028
Ethylbenzene	mg/L	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033	<0.0003	<0.0003	<0.00033
Toluene	mg/L	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033	<0.0002	<0.0002	<0.00033
m,p-Xylene	mg/L	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061	<0.0005	<0.0005	<0.00061
o-Xylene	mg/L	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031	<0.0003	<0.0003	<0.00031
Xylenes, Total	mg/L	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092	<0.0003	<0.0003	<0.00092
TPH Fractions																
Aliphatics >C6-C8	mg/L	<0.167	<0.0018	<0.0018	<0.0333	<0.0018	<0.0018	<0.833	<0.0018	<0.0018	<0.167	<0.0018	<0.0018	<0.167	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.167	<0.0004	<0.0004	<0.0333	<0.0004	<0.0004	<0.833	<0.0004	<0.0004	<0.167	<0.0004	<0.0004	<0.167	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.167	<0.0006	<0.0006	<0.0333	<0.0006	<0.0006	<0.833	<0.0006	<0.0006	<0.167	<0.0006	<0.0006	<0.167	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Notes
J - Estimated Value reportedelow the detection limit.
H - Analyzed outside of hold time.
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 3
Central Lake Water Column Profile
Sulphur Dome
Calcasieu Parish, Louisiana

10/4/2024	7:30	Water Column Station (water depth 5.0')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.60	1813	262	26.6	1315
3	7.45	1806	204	27.0	1306
5	7.49	1833	140	26.8	1328

10/11/2024	13:30	Water Column Station (water depth 5.0')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.80	1900	196	26.7	1390
3	7.69	1870	174	26.1	1363
5	7.70	1893	90	26.4	1384

10/18/2024	9:22	Water Column Station (water depth 4.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.65	1943	254	19.5	1437
3	7.62	1959	218	19.5	1443
5	7.62	1985	142	19.5	1464

10/25/2024	9:08	Water Column Station (water depth 4.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.91	2028	189	23.6	1493
3	7.70	2023	94	24.2	1487
5	7.77	2028	116	25.0	1489

11/1/2024	9:30	Water Column Station (water depth 4.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.56	2078	262	24.7	1531
3	7.44	2074	219	24.8	1528
5	7.54	2078	168	24.7	1531

11/8/2024	8:00	Water Column Station (water depth 4.9')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.56	2034	258	25.2	1498
3	7.65	2030	226	25.3	1492
5	7.59	2035	170	25.3	1496

11/15/2024	7:30	Water Column Station (water depth 5.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.29	2041	141	19.4	1514
3	7.25	2032	97	19.9	1511
5	7.19	2067	84	20.0	1534

11/22/2024	9:00	Water Column Station (water depth 5.0')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.45	2147	279	17.6	1608
3	7.39	2095	236	17.4	1559
5	7.35	2094	195	17.2	1560

11/27/2024	12:00	Water Column Station (water depth 5.1')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.71	2230	263	22.3	1657
3	7.62	2161	260	20.9	1595
5	7.54	2128	187	21.2	1579

Table 3
Central Lake Water Column Profile
Sulphur Dome
Calcasieu Parish, Louisiana

12/5/2024	12:50	Water Column Station (water depth 5.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.58	2158	60	16.9	1602
3	7.42	2169	103	16.6	1616
5	7.52	2190	64	17	1631

12/13/2024	7:20	Water Column Station (water depth 5.2')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.60	2206	109	13.9	1664
3	7.48	2128	82	13.2	1590
5	7.54	2107	89	13.3	1573

12/20/2024	8:00	Water Column Station (water depth 5.2')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.44	2160	246	16.3	1615
3	7.41	2150	176	16.3	1604
5	7.41	2159	37	16.3	1613

12/27/2024	12:15	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.86	2119	209	21.4	1582
3	7.65	2134	108	21.2	1581
5	7.73	2129	111	20.3	1574

1/3/2025	9:15	Water Column Station (water depth 5.4')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.53	2047	185	17.2	1521
3	7.56	2051	142	17.6	1524
5	7.62	2035	92	17.4	1511

1/8/2025	12:39	Water Column Station (water depth NM)			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.98	2074	188	11.2	1541
3	7.87	2081	110	10.8	1550
5	7.99	2084	123	11.2	1554

1/17/2025	9:45	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.98	1828	263	11.9	1351
3	7.93	1825	233	11.5	1350
5	7.84	1812	145	12.3	1337

1/24/2025	9:37	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.18	1832	236	7.9	1361
3	8.16	1842	225	7.3	1372
5	8.14	1856	198	7.3	1374

1/31/2025	9:11	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.07	1909	238	17.4	1417
3	8.00	1855	227	17.1	1370
5	7.87	1881	180	16.8	1395

Table 3
Central Lake Water Column Profile
Sulphur Dome
Calcasieu Parish, Louisiana

2/14/2025	12:30	Water Column Station (water depth 5.9')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.77	1884	161	14.3	1393
3	7.54	1876	84	15.2	1386
5	7.58	1878	61	15.2	1388

2/21/2025	12:35	Water Column Station (water depth 6.0')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.84	1886	207	8.7	1406
3	7.74	1889	90	8.4	1409
5	7.87	1886	90	8.5	1409

2/28/2025	9:16	Water Column Station (water depth 5.9')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.76	1750	226	17.3	1282
3	7.73	1737	181	16.7	1274
5	7.79	1755	198	17.9	1283

3/7/2025	9:30	Water Column Station (water depth 5.6')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.27	1814	91	18.2	1335
3	8.03	1802	110	17.7	1323
5	7.91	1833	110	18.6	1348

3/14/2025	9:30	Water Column Station (water depth 5.10')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.17	1841	222	22.2	1347
3	8.09	1835	215	22.1	1344
5	8.14	1858	173	22.1	1360

3/21/2025	9:16	Water Column Station (water depth 5.9')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.07	1901	137	17.9	1406
3	7.97	1898	138	17.6	1402
5	7.87	1897	65	16.9	1399

3/27/2025	12:33	Water Column Station (water depth 5.9')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.13	1933	102	23.9	1419
3	8.01	1923	125	23.7	1410
5	7.69	2024	13	22.9	1474

4/4/2025	8:00	Water Column Station (water depth 5.8')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.78	1765	222	25.3	1283
3	7.69	1778	70	25.3	1289
5	7.75	1756	42	25.5	1273

4/11/2025	9:30	Water Column Station (water depth 5.4')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.86	1755	183	32.7	1278
3	7.75	1751	161	22.4	1277
5	7.70	1767	40	22.3	1291

Table 3
Central Lake Water Column Profile
Sulphur Dome
Calcasieu Parish, Louisiana

4/17/2025	NM	Water Column Station (water depth 5.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.89	1798	185	26.0	1314
3	7.82	1795	150	25.2	1304
5	7.93	1818	121	25.9	1322

4/25/2025	11:01	Water Column Station (water depth 5.11')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.90	1705	146	28.2	1228
3	7.81	1145	110	27.6	1237
5	7.50	1837	-127	27.5	1329

5/2/2025	10:00	Water Column Station (water depth 6.6')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.11	1657	187	27.5	1193
3	8.12	1653	168	27.0	1191
5	7.92	1672	45	27.0	1201

5/9/2025	12:45	Water Column Station (water depth 7')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.64	1021	154	23.8	721.2
3	7.33	1133	20	23.8	802.4
5	7.35	1286	-124	23.8	917.1

5/16/2025	9:00	Water Column Station (water depth 7')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.63	1010	90	27.5	706.5
3	7.28	1011	5	26.7	709.0
5	7.08	1112	-150	25.4	783.4

5/23/2025	1:00	Water Column Station (water depth 5.2')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.36	1073	32	31.1	748.7
3	7.27	1066	-42	30.8	742.6
5	6.98	1169	-197	29.7	821.2

5/30/2025	9:00	Water Column Station (water depth 5.9')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.44	1069	149	28.8	749.2
3	7.25	1066	-28	28.2	746.6
5	7.26	1170	-158	28.2	934.2

6/6/2025	12:40	Water Column Station (water depth 5.4')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.31	1131	104	35.0	784.3
3	7.21	1109	-54	32.8	772.4
5	6.95	1190	-172	33.7	824.3

6/13/2025	8:00	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.60	1145	-2	27.3	804.0
3	7.32	1141	-46	27.4	801.7
5	7.26	1178	-92	27.3	829.4

Table 3
Central Lake Water Column Profile
Sulphur Dome
Calcasieu Parish, Louisiana

6/20/2025	9:30	Water Column Station (water depth 5.4')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.57	977.9	109	30.9	678.6
3	7.56	1005	-120	29.9	699.5
5	7.24	1080	-178	28.7	756.3

6/27/2025	8:00	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.37	962.7	118	28.5	668.2
3	7.35	964.5	-34	28.9	669.5
5	7.04	1132	-213	28.9	793.2

7/3/2025	7:40	Water Column Station (water depth 5.2')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.30	1005	-75	29.4	698.7
3	7.37	995.3	-68	29.7	693.8
5	7.07	1281	-200	29.1	903.0

7/11/2025	7:45	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.29	1009	-98	28.6	704.8
3	7.31	1010	-123	28.8	704.0
5	7.04	1128	-194	29.1	790.9

7/17/2025	8:00	Water Column Station (water depth NM)			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.27	1057	-84	28.0	739.6
3	7.31	1049	-113	28.4	732.8
5	6.95	1124	-196	28.2	789.2

7/25/2025	7:30	Water Column Station (water depth 5.4')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.26	1138	-85	28.1	798.6
3	7.23	1134	-124	29	797.6
5	6.92	1210	-195	28.1	857.9

8/1/2025	7:30	Water Column Station (water depth 5.0')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.23	1195	-106	28	846.2
3	7.28	1193	-116	28.3	839.8
5	7.22	1230	-110	28.3	866.8

8/15/2025	7:30	Water Column Station (water depth 5.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.55	1360	-28	28.6	959.9
3	7.60	1361	-74	29.3	965.0
5	7.02	1486	-191	29.5	1060

8/18/2025	7:30	Water Column Station (water depth 5.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.34	1289	57	28.5	909.9
3	7.37	1280	-83	29.0	912.3
5	7.12	1407	-149	29.5	997.7

Table 3
Central Lake Water Column Profile
Sulphur Dome
Calcasieu Parish, Louisiana

8/22/2025	8:50	Water Column Station (water depth 4.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.43	1427	-25	28.0	1013
3	7.51	1422	-73	28.3	1008
5	7.09	1489	-161	28.4	1062

8/28/2025	7:45	Water Column Station (water depth 5.5')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.48	1423	93	27.2	1013
3	7.49	1428	92	27.9	1014
5	7.14	1556	-172	28.6	1111

9/5/2025	8:39	Water Column Station (water depth 6.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	8.14	848.7	-8	28.6	586.8
3	7.44	859.8	-135	28.5	595.7
5	7.09	1014	-184	28.6	708.5

9/12/2025	8:09	Water Column Station (water depth 5.4')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.32	893.7	190	26.6	623.9
3	7.20	870.2	12	27.2	604.7
5	7.06	1048	-177	27.2	736.8

9/19/2025	11:00	Water Column Station (water depth 5.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.34	941.4	127	29.6	652.5
3	7.30	940.6	85	30.5	651.7
5	6.94	1001	-169	30.8	746.8

9/26/2025	8:30	Water Column Station (water depth 5.3')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.37	1027	123	25.3	726.3
3	7.36	1031	95	26.3	725.9
5	7.06	1152	156	26.8	814.4

10/3/2025	7:30	Water Column Station (water depth 5.2')			
Depth (ft)	pH	SC (uS/cm)	ORP (mV)	Temp (°C)	TDS (ppm)
1	7.50	1119	189	24.8	793.2
3	7.38	1106	119	25.4	781.0
5	7.14	1257	-123	25.6	893.8

Notes:
Readings were recorded with an Ultrameter II, hand-held meter
NR - Not Recorded

Table 4
Fish Die-off Surface Water Sampling Data
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample ID	KZ-Top	KZ-Bottom	LZ-Top	LZ-Bott
	Sample Date	8/1/25	8/1/25	8/1/25	8/1/25
	Sample Interval	Top	Bottom	Top	Bottom
	Sampler	ERM	ERM	ERM	ERM
Constituent	**Units**	**Die-off Zone**		**Living Zone**	
Total Metals					
Arsenic	mg/L	**0.00232**	0.00113 J	**0.00493**	0.00117 J
Barium	mg/L	**0.211**	**0.286**	**0.197**	**0.252**
Calcium	mg/L	**64.5**	**67.5**	**64.3**	**68.2**
Chromium	mg/L	<0.00173	<0.00173	<0.00173	<0.00173
Iron	mg/L	<0.06	0.0942 J	<0.06	<0.06
Lead	mg/L	<0.00047	<0.00047	<0.00047	<0.00047
Magnesium	mg/L	**14.8**	**15.7**	**13.4**	**14.3**
Manganese	mg/L	**0.928**	**3.53**	**0.276**	**1.40**
Mercury	mg/L	<0.00003	<0.00003	<0.00003	<0.00003
Nickel	mg/L	<0.0013	<0.0013	<0.0013	<0.0013
Potassium	mg/L	**3.03**	**2.85**	**2.19**	**2.05**
Sodium	mg/L	**159**	**193**	**195**	**210**
Strontium	mg/L	**0.495**	**0.530**	**0.507**	**0.540**
Vanadium		0.000713 J	0.00106 J	0.00107 J	0.00133 J
Zinc	mg/L	**0.0113**	0.00446 J	0.00532 J	0.00408 J
Anions/Wateruality Parameters					
Bicarbonate Alkalinity	mg/L	**136**	**131**	**119**	**136**
Bromide	mg/L	<0.03	<0.03	<0.03	<0.03
Carbonate Alkalinity	mg/L	<1.2	<1.2	<1.2	<1.2
Chloride	mg/L	**253**	**264**	**307**	**307**
Sulfate	mg/L	**75.3**	**77.8**	**82.4**	**77.7**
Total Dissolved Solids (TDS	mg/L	**672**	**724**	**776**	**716**
pH	SI	7.73 H	7.51 H	7.53 H	7.65 H
Sulfides					
Hydrogen Sulfide	mg/L	<0.5	**3.74**	**3.74**	<0.5
Sulfide	mg/L	<0.92	3.52 J	3.52 J	<0.92
Volatile Organic Compounds					
Benzene	mg/L	<0.00028	<0.00028	<0.00028	<0.00028
Ethylbenzene	mg/L	<0.00033	<0.00033	<0.00033	<0.00033
Toluene	mg/L	<0.00033	<0.00033	<0.00033	<0.00033
m,p-Xylene	mg/L	<0.00061	<0.00061	<0.00061	<0.00061
o-Xylene	mg/L	<0.00031	<0.00031	<0.00031	<0.00031
Xylenes, Total	mg/L	<0.00092	<0.00092	<0.00092	<0.00092
TPH Fractions					
Aliphatics >C6-C8	mg/L	<0.0018	<0.0018	<0.0018	<0.0018
Aliphatics >C8-C10	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Aliphatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025
Aliphatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025
Aliphatics >C16-C35	mg/L	<0.025	<0.025	<0.025	<0.025
Aromatics >C8-C10	mg/L	<0.0006	<0.0006	<0.0006	<0.0006
Aromatics >C10-C12	mg/L	<0.025	<0.025	<0.025	<0.025
Aromatics >C12-C16	mg/L	<0.025	<0.025	<0.025	<0.025
Aromatics >C16-C21	mg/L	<0.025	<0.025	<0.025	<0.025
Aromatics >C21-C35	mg/L	<0.025	<0.025	<0.025	<0.025
Field Parameters					
Temperature	°C	**30.28**	**29.2**	**32.6**	**29.3**
Conductivity	ms/cm	**1.41**	**1.44**	**1.59**	**1.96**
Total Dissolved Solids (TDS	NTU	**0.904**	**0.918**	**1.02**	**1.27**
Oxidation-Reduction Potenti	mV	**119**	**-164**	**-50**	**-177**
Dissolved Oxygen (DO)	mg/L	**1.46**	**0.37**	**3.56**	**1.3**
pH	SI	**6.91**	**7.11**	**7.17**	**6.78**

Notes
J - Estimated Value reportedelow the detection limit.
H - pH is received at the lab outside of hold time (15 min from sampling).
< - Not Detected at the reporting limit shown.
Bolded values deteted in the sample.

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 1								LDNR 3								LDNR 4							
	Sample ID																								
	Sample Date	10/22/24	11/21/24	12/17/24	1/29/25	2/18/25	3/20/25	4/23/25	7/24/25	10/21/24	11/20/24	12/16/24	1/28/25	2/24/25	3/18/25	4/22/25	7/22/25	10/21/24	11/20/24	12/17/24	1/28/25	2/18/25	3/17/25	4/21/25	7/22/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	**0.0061**	**0.0050**	**0.0047**	**0.0052**	**0.0045**	**0.0060**	**0.0061**	**0.0060**	**0.0050**	**0.0049**	**0.0031**	**0.0040**	**0.0036**	**0.0035**	**0.0039**	**0.0041**	**0.0026**	**0.0041**	**0.0033**	**0.0041**	**0.0040**	**0.0055**	**0.0036**	**0.0042**
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.101**	**0.573**	**0.0441**	**0.0652**	**0.0568**	**0.0658**	**0.0459**	**0.0567**	**0.0726**	**0.100**	**0.0397**	**0.054**	**0.0809**	**0.0553**	**0.0513**	**0.0389**	**0.412**	**0.0916**	**0.0282**	**0.0429**	**0.0639**	**0.0267**	**0.0318**	**0.0302**
Oxygen	mol%	**1.77**	**12.34**	**0.10**	**0.22**	**0.30**	**0.22**	**0.10**	**0.24**	**1.25**	**2.00**	**0.45**	**0.96**	**1.28**	**0.71**	**0.38**	**0.14**	**9.00**	**1.87**	**0.14**	**0.52**	**1.16**	**0.29**	**0.16**	**0.15**
Nitrogen	mol%	**7.93**	**46.80**	**2.29**	**3.54**	**2.91**	**3.50**	**2.42**	**3.13**	**5.55**	**7.92**	**1.90**	**3.44**	**4.82**	**2.75**	**2.34**	**1.99**	**33.53**	**7.61**	**1.57**	**2.64**	**5.03**	**1.46**	**1.74**	**1.71**
Carbon Dioxide	mol%	**2.16**	**1.08**	**2.56**	**2.73**	**1.55**	**1.75**	**2.73**	**2.51**	**2.26**	**2.07**	**1.93**	**1.54**	**1.15**	**1.18**	**1.75**	**2.55**	**1.17**	**1.46**	**1.63**	**1.21**	**1.36**	**1.35**	**1.51**	**2.47**
Methane	mol%	**85.96**	**38.28**	**92.76**	**91.32**	**93.01**	**92.33**	**92.45**	**91.84**	**89.87**	**86.95**	**94.64**	**93.00**	**91.40**	**94.29**	**94.44**	**94.24**	**54.84**	**87.34**	**94.81**	**93.81**	**90.69**	**95.09**	**94.76**	**93.87**
Ethane	mol%	**1.34**	**0.616**	**1.46**	**1.39**	**1.42**	**1.40**	**1.46**	**1.43**	**0.593**	**0.573**	**0.613**	**0.605**	**0.905**	**0.612**	**0.623**	**0.630**	**0.727**	**1.14**	**1.29**	**1.25**	**1.21**	**1.26**	**1.29**	**1.26**
Ethylene	mol%	**0.0006**	**0.0002**	**0.0007**	**0.0002**	**0.0005**	**0.0005**	**0.0007**	**0.0006**	**0.0139**	**0.0122**	**0.0132**	**0.0104**	**0.0089**	**0.0116**	**0.0081**	**0.0096**	**0.0210**	**0.0329**	**0.0342**	**0.0319**	**0.0299**	**0.0305**	**0.0308**	**0.0244**
Propane	mol%	**0.390**	**0.175**	**0.418**	**0.402**	**0.414**	**0.409**	**0.420**	**0.424**	**0.167**	**0.161**	**0.177**	**0.171**	**0.175**	**0.175**	**0.181**	**0.182**	**0.153**	**0.239**	**0.258**	**0.251**	**0.243**	**0.255**	**0.256**	**0.252**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0935**	**0.0416**	**0.102**	**0.0977**	**0.100**	**0.100**	**0.102**	**0.102**	**0.0639**	**0.0617**	**0.0683**	**0.6510**	**0.0635**	**0.0671**	**0.0689**	**0.0674**	**0.0452**	**0.0712**	**0.0773**	**0.0757**	**0.0730**	**0.0770**	**0.0776**	**0.0758**
N-butane	mol%	**0.0995**	**0.0430**	**0.108**	**0.101**	**0.104**	**0.104**	**0.108**	**0.108**	**0.0533**	**0.0512**	**0.0571**	**0.0535**	**0.0510**	**0.0552**	**0.0569**	**0.0554**	**0.0405**	**0.0640**	**0.0694**	**0.0677**	**0.0653**	**0.0691**	**0.0689**	**0.0673**
Iso-pentane	mol%	**0.0399**	**0.0167**	**0.0432**	**0.0403**	**0.0411**	**0.0419**	**0.0438**	**0.0455**	**0.0303**	**0.0290**	**0.0329**	**0.0306**	**0.0274**	**0.0316**	**0.0324**	**0.0340**	**0.0174**	**0.0278**	**0.0302**	**0.0300**	**0.0288**	**0.0306**	**0.0302**	**0.0325**
N-pentane	mol%	**0.0294**	**0.0119**	**0.0297**	**0.0279**	**0.0296**	**0.0296**	**0.0320**	**0.0318**	**0.0224**	**0.0214**	**0.0245**	**0.0223**	**0.0190**	**0.0232**	**0.0238**	**0.0230**	**0.0121**	**0.0191**	**0.0207**	**0.0208**	**0.0199**	**0.0213**	**0.0207**	**0.0205**
Hexanes +	mol%	**0.0728**	**0.0227**	**0.0685**	**0.0579**	**0.0591**	**0.0595**	**0.0755**	**0.0779**	**0.0439**	**0.0398**	**0.0464**	**0.0413**	**0.0301**	**0.0430**	**0.0417**	**0.0394**	**0.0183**	**0.0279**	**0.0291**	**0.0318**	**0.0292**	**0.0323**	**0.0282**	**0.0285**
Stable Isotopes																									
$\delta^{13}C$ (CH_4)	‰	**-39.06**	**-39.00**	**-38.94**	**-39.03**	**-39.07**	**-39.02**	**-39.05**	**-38.96**	**-34.37**	**-34.25**	**-34.26**	**-34.24**	**-35.43**	**-34.21**	**-34.21**	**-34.28**	**-37.00**	**-37.04**	**-37.20**	**-37.19**	**-37.10**	**-37.04**	**-37.00**	**-36.95**
δD (CH_4)	‰	**-151.8**	**-152.1**	**-151.5**	**-155.8**	**-153.4**	**-158.5**	**-156.3**	**-154.5**	**-143.0**	**-141.5**	**-142.5**	**-142.1**	**-147.0**	**-139.0**	**-146.1**	**-143.2**	**-149.6**	**-152.1**	**-147.6**	**-152.1**	**-148.0**	**-152.1**	**-149.2**	**-152.4**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																									
Hydrogen Sulfide	ppmw	**13.0**	**0.7**	**49.0**	**0.3**	**0.6**	**0.1**	**15.5**	**28.4**	**113.7**	**111.7**	<0.1	**3.3**	**5.1**	<0.1	**1.5**	**180.1**	**3.4**	**11.5**	**15.9**	**8.2**	**1.5**	**0.7**	**5.8**	**1,292.6**

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 5								LDNR 6								LDNR 7							
	Sample ID																								
	Sample Date	10/22/24	11/19/24	12/16/24	1/27/25	2/18/25	3/18/25	4/23/25	7/23/25	10/21/24	11/19/24	12/16/24	1/28/25	2/24/25	3/18/25	4/22/25	7/22/25	10/22/24	11/19/24	12/18/24	1/28/25	2/24/25	3/18/25	4/22/25	7/23/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	**0.0047**	**0.0049**	**0.0052**	**0.0044**	**0.0044**	**0.0036**	**0.0037**	**0.0051**	**0.0046**	**0.0043**	**0.0031**	**0.0035**	**0.0040**	**0.0045**	**0.0037**	**0.0047**	**0.0036**	**0.0038**	**0.0037**	**0.0027**	**0.0041**	**0.0025**	**0.0032**	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.106**	**0.180**	**0.0874**	**0.0788**	**0.0544**	**0.0455**	**0.0597**	**0.0544**	**0.102**	**0.101**	**0.117**	**0.134**	**0.128**	**0.0794**	**0.0775**	**0.0646**	**0.209**	**0.161**	**0.260**	**0.454**	**0.166**	**0.115**	**0.143**	**1.39**
Oxygen	mol%	**2.25**	**3.63**	**1.57**	**1.63**	**0.59**	**0.74**	**0.63**	**0.13**	**1.93**	**1.60**	**2.40**	**2.75**	**2.08**	**1.35**	**0.83**	**0.12**	**3.93**	**2.03**	**4.84**	**9.73**	**2.52**	**2.55**	**2.58**	**27.31**
Nitrogen	mol%	**8.14**	**13.85**	**3.97**	**3.93**	**2.63**	**2.27**	**2.78**	**2.69**	**7.45**	**7.08**	**7.38**	**5.95**	**7.47**	**3.89**	**3.70**	**3.20**	**12.34**	**9.01**	**16.93**	**34.01**	**9.11**	**5.71**	**6.86**	**68.94**
Carbon Dioxide	mol%	**1.27**	**1.08**	**0.51**	**0.48**	**0.97**	**1.02**	**0.95**	**1.63**	**1.52**	**1.38**	**0.82**	**0.20**	**0.60**	**0.74**	**1.02**	**1.75**	**0.50**	**0.73**	**0.45**	**0.20**	**0.49**	**0.29**	**0.33**	**1.02**
Methane	mol%	**86.72**	**79.88**	**92.25**	**92.34**	**94.19**	**94.37**	**93.99**	**93.97**	**87.92**	**88.72**	**88.20**	**89.90**	**88.65**	**92.80**	**93.24**	**93.71**	**79.98**	**84.84**	**74.69**	**53.57**	**85.09**	**88.05**	**86.85**	**1.32**
Ethane	mol%	**1.04**	**0.935**	**0.999**	**1.05**	**1.06**	**1.05**	**1.03**	**0.973**	**0.633**	**0.671**	**0.626**	**0.622**	**0.638**	**0.664**	**0.664**	**0.692**	**2.69**	**2.84**	**2.49**	**1.78**	**2.31**	**2.90**	**2.86**	**0.0111**
Ethylene	mol%	**0.0143**	**0.0153**	**0.107**	**0.0155**	**0.0186**	**0.0181**	**0.0614**	**0.0527**	**0.0409**	**0.0393**	**0.0387**	**0.0311**	**0.0331**	**0.0373**	**0.0394**	**0.0369**	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	**0.255**	**0.236**	**0.275**	**0.263**	**0.268**	**0.267**	**0.273**	**0.267**	**0.209**	**0.212**	**0.211**	**0.206**	**0.202**	**0.215**	**0.217**	**0.218**	**0.218**	**0.231**	**0.203**	**0.144**	**0.188**	**0.236**	**0.228**	**0.0016**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0713**	**0.0654**	**0.0786**	**0.0768**	**0.0774**	**0.0775**	**0.0805**	**0.0788**	**0.0778**	**0.0793**	**0.0811**	**0.0812**	**0.0775**	**0.0830**	**0.0845**	**0.0837**	**0.0576**	**0.0607**	**0.0536**	**0.0387**	**0.0550**	**0.0619**	**0.0604**	ND
N-butane	mol%	**0.0648**	**0.0592**	**0.0718**	**0.0686**	**0.0690**	**0.0692**	**0.0729**	**0.0707**	**0.0617**	**0.0632**	**0.0650**	**0.0629**	**0.0599**	**0.0661**	**0.0673**	**0.0670**	**0.0464**	**0.0491**	**0.0435**	**0.0312**	**0.0354**	**0.0498**	**0.0476**	ND
Iso-pentane	mol%	**0.0249**	**0.0221**	**0.0273**	**0.0270**	**0.0266**	**0.0270**	**0.0284**	**0.0304**	**0.0256**	**0.0265**	**0.0277**	**0.0272**	**0.0249**	**0.0284**	**0.0286**	**0.0311**	**0.0172**	**0.0183**	**0.0163**	**0.0118**	**0.0166**	**0.0184**	**0.0175**	ND
N-pentane	mol%	**0.0162**	**0.0141**	**0.0175**	**0.0173**	**0.0168**	**0.0171**	**0.0181**	**0.0174**	**0.0136**	**0.0142**	**0.0149**	**0.0143**	**0.0129**	**0.0153**	**0.0154**	**0.0152**	**0.0091**	**0.0097**	**0.0088**	**0.0065**	**0.0065**	**0.0098**	**0.0092**	ND
Hexanes +	mol%	**0.0239**	**0.0187**	**0.0238**	**0.0241**	**0.0222**	**0.0224**	**0.0233**	**0.0241**	**0.0135**	**0.0143**	**0.0151**	**0.0144**	**0.0119**	**0.0155**	**0.0158**	**0.0158**	**0.0131**	**0.0149**	**0.0149**	**0.0116**	**0.0127**	**0.0141**	**0.0133**	ND
Stable Isotopes																									
$\delta^{13}C$ (CH_4)	‰	**-36.61**	**-36.44**	**-36.22**	**-36.24**	**-36.19**	**-36.09**	**-35.86**	**-35.70**	**-34.75**	**-34.84**	**-34.67**	**-34.72**	**-34.93**	**-34.71**	**-34.67**	**-34.77**	**-43.88**	**-43.89**	**-43.94**	**-43.77**	**-42.50**	**-43.89**	**-43.88**	**-49.3**
δD (CH_4)	‰	**-145.7**	**-147.5**	**-145.1**	**-149.9**	**-144.0**	**-151.2**	**-148.6**	**-147.8**	**-140.3**	**-145.4**	**-144.3**	**-145.0**	**-142.2**	**-145.8**	**-146.9**	**-145.1**	**-179.1**	**-181.8**	**-182.1**	**-178.1**	**-172.0**	**-183.6**	**-184.3**	NA
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																									
Hydrogen Sulfide	ppmw	<0.1	**0.7**	**0.1**	<0.1	<0.1	<0.1	<0.1	**281.4**	<0.1	<0.1	<0.1	<0.1	**0.3**	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 8								LDNR 9								LDNR 10							
	Sample ID																								
	Sample Date	10/23/24	11/19/24	12/16/24	1/28/25	2/24/25	3/19/25	4/22/25	7/23/25	10/24/24	11/21/24	12/17/24	1/28/25	2/19/25	3/19/25	4/23/25	7/24/25	10/23/24	11/20/24	12/17/24	1/30/25	2/19/25	3/20/25	4/24/25	7/24/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	DG	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	**0.0038**	**0.0045**	**0.0031**	**0.0036**	ND	ND	**0.0032**	NA	**0.0029**	**0.0031**	**0.0026**	**0.0027**	**0.0035**	**0.0056**	**0.0027**	**0.0033**	ND	ND	ND	ND	ND	ND	ND	ND
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.158**	**0.153**	**0.101**	**0.228**	**0.667**	**0.169**	**0.128**	**1.20**	**0.167**	**0.122**	**0.0574**	**0.0681**	**0.0409**	**0.0444**	**0.0661**	**0.0444**	**0.932**	**0.933**	**0.909**	**0.93**	**0.938**	**0.935**	**0.334**	**0.939**
Oxygen	mol%	**2.61**	**2.21**	**1.61**	**4.74**	**14.24**	**3.22**	**1.71**	**43.26**	**3.44**	**2.33**	**0.84**	**0.94**	**0.49**	**0.44**	**0.69**	**0.31**	**20.91**	**20.97**	**20.33**	**20.89**	**21.18**	**21.02**	**5.36**	**21.03**
Nitrogen	mol%	**9.97**	**9.36**	**4.86**	**15.63**	**53.21**	**8.11**	**6.02**	**55.41**	**13.38**	**9.45**	**2.97**	**3.22**	**1.99**	**2.29**	**3.77**	**2.17**	**78.01**	**78.01**	**75.35**	**78.09**	**77.82**	**77.97**	**26.93**	**77.75**
Carbon Dioxide	mol%	**0.76**	**0.80**	**0.58**	**0.47**	**0.31**	**0.18**	**0.52**	**0.11**	**3.08**	**2.33**	**2.22**	**1.43**	**2.05**	**2.33**	**2.35**	**2.71**	**0.069**	**0.048**	**0.30**	**0.044**	**0.046**	**0.048**	**4.86**	**0.071**
Methane	mol%	**83.33**	**84.28**	**89.45**	**76.35**	**30.43**	**85.21**	**88.23**	**0.0167**	**79.31**	**85.10**	**93.18**	**93.61**	**94.67**	**94.15**	**92.37**	**93.97**	**0.0754**	**0.0374**	**3.11**	**0.0428**	**0.0132**	**0.0313**	**62.20**	**0.204**
Ethane	mol%	**2.79**	**2.81**	**3.00**	**2.25**	**1.02**	**2.75**	**2.99**	ND	**0.4630**	**0.495**	**0.534**	**0.539**	**0.557**	**0.558**	**0.556**	**0.590**	**0.0001**	**0.0002**	**0.0104**	**0.0002**	**0.0001**	ND	**0.291**	**0.0008**
Ethylene	mol%	ND	ND	ND	**0.0011**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	**0.222**	**0.224**	**0.238**	**0.189**	**0.0786**	**0.216**	**0.235**	ND	**0.0814**	**0.087**	**0.0967**	**0.0938**	**0.0960**	**0.0954**	**0.0950**	**0.0978**	ND	ND	**0.0005**	ND	ND	ND	**0.0062**	ND
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0605**	**0.0616**	**0.0659**	**0.0539**	**0.0214**	**0.0615**	**0.0660**	ND	**0.0361**	**0.0399**	**0.0443**	**0.0437**	**0.0441**	**0.0440**	**0.0449**	**0.0461**	ND	ND	**0.0009**	ND	ND	ND	**0.0091**	ND
N-butane	mol%	**0.0489**	**0.0493**	**0.0533**	**0.0425**	**0.0164**	**0.0471**	**0.0524**	ND	**0.0119**	**0.0123**	**0.0142**	**0.0131**	**0.0134**	**0.0133**	**0.0126**	**0.0131**	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	**0.0187**	**0.0191**	**0.0207**	**0.0171**	**0.0061**	**0.0185**	**0.0204**	ND	**0.0087**	**0.0099**	**0.0110**	**0.0106**	**0.0106**	**0.0106**	**0.0111**	**0.0145**	ND	ND	**0.0002**	ND	ND	ND	**0.0018**	ND
N-pentane	mol%	**0.0102**	**0.0104**	**0.0113**	**0.0097**	**0.0032**	**0.0099**	**0.0112**	ND	**0.0025**	**0.0027**	**0.0032**	**0.0029**	**0.0028**	**0.0028**	**0.0028**	**0.0027**	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0146**	**0.0154**	**0.0162**	**0.0137**	**0.0041**	**0.0134**	**0.0157**	ND	**0.0188**	**0.0227**	**0.0234**	**0.0245**	**0.0233**	**0.0232**	**0.0230**	**0.0279**	ND	**0.0002**	**0.0005**	**0.0004**	**0.0001**	**0.0003**	**0.0039**	**0.0002**
Stable Isotopes																									
$\delta^{13}C$ (CH_4)	‰	**-43.71**	**-43.61**	**-43.68**	**-42.25**	**-43.60**	**-43.90**	**-43.96**	NA	**-34.60**	**-34.91**	**-34.95**	**-34.92**	**-34.97**	**-34.98**	**-35.09**	**-35.15**	**-27.40**	NA	**-21.18**	NA	NA	NA	**-35.37**	**-34.6**
δD (CH_4)	‰	**-178.0**	**-181.2**	**-180.1**	**-175.0**	**-177.0**	**-184.0**	**-182.9**	NA	**-142.4**	**-145.3**	**-141.8**	**-145.8**	**-142.1**	**-144.5**	**-147.5**	**-146.4**	NA	NA	**-127.2**	NA	NA	NA	**-149.4**	NA
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																									
Hydrogen Sulfide	ppmw	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	<0.1	NA	**10.8**	**0.2**	**14.9**	<0.1	<0.1	<0.1	<0.1	**0.6**	<0.1	<0.1	NA	<0.1	<0.1	<0.1	**284.6**	**0.1**

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 12								LDNR 13								LDNR 14							
	Sample ID																								
	Sample Date	10/22/24	11/19/24	12/18/24	1/28/25	2/19/25	3/18/25	4/22/25	7/23/25	10/22/24	11/19/24	12/18/24	1/28/25	2/19/25	3/18/25	4/23/25	7/22/25	10/22/24	11/19/24	12/18/24	1/30/25	2/19/25	3/18/25	4/23/25	7/22/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	**0.28**	ND	ND	ND	**0.15**	ND	ND	ND	**0.12**	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	**0.0037**	**0.0038**	**0.0036**	**0.0043**	**0.0044**	**0.0031**	**0.0025**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.290**	**0.147**	**0.144**	**0.149**	**0.174**	**0.130**	**0.093**	**1.31**	**1.58**	**1.62**	**1.49**	**1.50**	**1.65**	**1.44**	**1.98**	**1.52**	**1.55**	**1.16**	**1.57**	**1.5**	**1.63**	**1.41**	**1.56**	**1.52**
Oxygen	mol%	**6.04**	**1.97**	**2.43**	**2.78**	**2.22**	**2.89**	**1.62**	**38.33**	**19.75**	**21.68**	**27.03**	**31.55**	**22.55**	**34.90**	**0.55**	**12.57**	**24.43**	**19.90**	**28.25**	**32.97**	**22.89**	**36.20**	**25.18**	**22.80**
Nitrogen	mol%	**20.99**	**9.00**	**6.65**	**8.08**	**7.91**	**6.37**	**5.10**	**60.08**	**71.72**	**72.07**	**68.99**	**65.46**	**72.57**	**62.96**	**88.41**	**75.00**	**70.17**	**77.11**	**67.66**	**64.43**	**72.09**	**61.89**	**71.21**	**72.38**
Carbon Dioxide	mol%	**0.61**	**0.91**	**0.38**	**0.30**	**0.43**	**0.20**	**0.91**	**0.24**	**6.25**	**4.46**	**2.33**	**1.13**	**2.97**	**0.55**	**7.54**	**5.60**	**3.32**	**1.76**	**2.36**	**0.93**	**3.24**	**0.35**	**1.76**	**2.77**
Methane	mol%	**69.40**	**84.74**	**87.18**	**85.54**	**86.14**	**87.21**	**88.88**	**0.0457**	**0.422**	**0.165**	**0.161**	**0.343**	**0.113**	**0.159**	**1.52**	**5.31**	**0.411**	**0.0686**	**0.161**	**0.175**	**0.138**	**0.140**	**0.287**	**0.524**
Ethane	mol%	**2.36**	**2.86**	**2.86**	**2.78**	**2.75**	**2.83**	**3.01**	ND	**0.0018**	**0.0010**	**0.0018**	**0.0048**	**0.0015**	**0.0006**	**0.0009**	**0.0033**	**0.0026**	ND	**0.0026**	**0.004**	**0.0078**	**0.0019**	**0.0011**	**0.0049**
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	**0.184**	**0.225**	**0.224**	**0.218**	**0.220**	**0.220**	**0.235**	ND	ND	ND	ND	**0.0007**	ND	ND	ND	ND	ND	ND	ND	**0.0006**	**0.0014**	ND	ND	ND
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0501**	**0.0611**	**0.0603**	**0.0602**	**0.0618**	**0.0604**	**0.0635**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-butane	mol%	**0.0391**	**0.0478**	**0.0446**	**0.0459**	**0.0459**	**0.0455**	**0.0495**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	**0.0157**	**0.0192**	**0.0165**	**0.0183**	**0.0179**	**0.0175**	**0.0188**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-pentane	mol%	**0.0084**	**0.0103**	**0.0082**	**0.0096**	**0.0092**	**0.0090**	**0.0099**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0127**	**0.0160**	**0.0101**	**0.0152**	**0.0130**	**0.0129**	**0.0141**	ND	**0.0036**	ND	**0.0012**	**0.0047**	**0.0023**	ND	ND	ND	**0.0037**	ND	**0.0008**	**0.0017**	ND	ND	ND	ND
Stable Isotopes																									
$\delta^{13}C$ (CH_4)	‰	**-43.72**	**-43.63**	**-43.81**	**-43.74**	**-43.74**	**-43.79**	**-43.81**	NA	NA	NA	NA	**-46.60**	NA	NA	**-59.50**	**-61.17**	**-49.10**	NA	NA	NA	NA	NA	NA	**-41.9**
δD (CH_4)	‰	**-177.4**	**-179.9**	**-183.9**	**-182.5**	**-180.6**	**-179.3**	**-184.0**	NA	NA	NA	NA	NA	NA	NA	NA	**-267**	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																									
Hydrogen Sulfide	ppmw	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 17								LDNR 18								LDNR 19						
	Sample ID																							
	Sample Date	10/21/24	11/21/24	12/16/24	1/27/25	2/19/25	3/18/25	4/22/25	7/22/25	10/22/24	11/19/24	12/18/24	1/28/25	2/19/25	3/19/25	4/22/25	7/24/25	11/21/24	12/17/24	1/28/25	2/19/25	3/19/25	4/25/25	7/24/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																						
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	**0.0056**	**0.0037**	**0.0044**	**0.0027**	**0.0058**	**0.0046**	**0.0039**	**0.0092**	**0.0048**	**0.0033**	**0.0031**	**0.0034**	**0.0038**	**0.0066**	**0.0031**	**0.0042**	**0.0035**	ND	ND	**0.0047**	**0.0032**	ND	**0.0028**
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0121**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.121**	**0.271**	**0.081**	**0.287**	**0.184**	**0.088**	**0.111**	**0.0604**	**0.145**	**0.150**	**0.173**	**0.275**	**0.223**	**0.356**	**0.178**	**0.0873**	**0.0816**	**0.144**	**0.135**	**0.0923**	**0.134**	**0.0430**	**0.0603**
Oxygen	mol%	**2.21**	**3.80**	**1.10**	**5.89**	**2.55**	**1.31**	**1.67**	**0.17**	**2.83**	**2.50**	**2.58**	**5.64**	**3.30**	**6.83**	**3.33**	**0.20**	**1.17**	**2.40**	**1.99**	**1.24**	**2.19**	**0.38**	**0.65**
Nitrogen	mol%	**8.86**	**17.20**	**4.50**	**22.42**	**10.72**	**4.50**	**6.83**	**3.15**	**10.16**	**10.37**	**8.38**	**18.55**	**12.76**	**18.63**	**11.95**	**4.29**	**5.25**	**9.74**	**9.00**	**6.13**	**8.08**	**2.09**	**3.51**
Carbon Dioxide	mol%	**2.10**	**0.75**	**1.42**	**1.12**	**0.89**	**0.86**	**1.28**	**2.61**	**1.16**	**1.24**	**0.50**	**0.38**	**0.44**	**0.23**	**0.82**	**2.11**	**4.29**	**3.61**	**2.14**	**3.53**	**2.11**	**6.07**	**5.85**
Methane	mol%	**84.85**	**76.37**	**90.88**	**68.79**	**83.85**	**91.30**	**88.15**	**91.98**	**84.48**	**84.51**	**87.14**	**74.11**	**82.15**	**73.04**	**82.49**	**91.98**	**88.56**	**83.50**	**86.10**	**88.35**	**86.85**	**90.71**	**89.22**
Ethane	mol%	**1.49**	**1.29**	**1.62**	**1.19**	**1.44**	**1.56**	**1.57**	**1.61**	**0.795**	**0.798**	**0.797**	**0.679**	**0.742**	**0.605**	**0.811**	**0.871**	**0.533**	**0.497**	**0.519**	**0.537**	**0.536**	**0.572**	**0.587**
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	**0.204**	**0.175**	**0.216**	**0.162**	**0.197**	**0.212**	**0.209**	**0.219**	**0.212**	**0.211**	**0.217**	**0.181**	**0.199**	**0.152**	**0.206**	**0.229**	**0.0459**	**0.0459**	**0.0489**	**0.0535**	**0.0438**	**0.0514**	**0.0458**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0650**	**0.0581**	**0.0702**	**0.0522**	**0.0653**	**0.0698**	**0.0682**	**0.0710**	**0.0693**	**0.0696**	**0.0735**	**0.0620**	**0.0680**	**0.0543**	**0.0684**	**0.0756**	**0.0326**	**0.0328**	**0.0354**	**0.0366**	**0.0316**	**0.0381**	**0.0369**
N-butane	mol%	**0.0487**	**0.0406**	**0.0520**	**0.382**	**0.0470**	**0.0502**	**0.0497**	**0.0524**	**0.0597**	**0.0599**	**0.0615**	**0.0519**	**0.0554**	**0.0391**	**0.0581**	**0.0643**	**0.0001**	**0.0003**	**0.0002**	**0.0017**	**0.0004**	**0.0003**	**0.0001**
Iso-pentane	mol%	**0.0223**	**0.0187**	**0.0240**	**0.0173**	**0.0219**	**0.0232**	**0.0225**	**0.0271**	**0.0285**	**0.0290**	**0.0297**	**0.0261**	**0.0264**	**0.0195**	**0.0278**	**0.0341**	**0.0085**	**0.0084**	**0.0087**	**0.0091**	**0.0080**	**0.0097**	**0.0125**
N-pentane	mol%	**0.0132**	**0.0107**	**0.0140**	**0.0101**	**0.0127**	**0.0134**	**0.0130**	**0.0142**	**0.0197**	**0.0201**	**0.0201**	**0.0179**	**0.0172**	**0.0122**	**0.0188**	**0.0215**	ND	**0.0002**	ND	**0.0004**	**0.0002**	**0.0001**	ND
Hexanes +	mol%	**0.0223**	**0.0151**	**0.0221**	**0.0152**	**0.0207**	**0.0205**	**0.0190**	**0.0231**	**0.0315**	**0.0328**	**0.0278**	**0.0314**	**0.0234**	**0.0173**	**0.0280**	**0.0328**	**0.0264**	**0.0194**	**0.0179**	**0.0192**	**0.0215**	**0.0237**	**0.0309**
Stable Isotopes																								
$\delta^{13}C$ (CH_4)	‰	**-39.47**	**-39.14**	**-39.36**	**-39.23**	**-39.09**	**-39.00**	**-39.11**	**-39.01**	**-35.97**	**-36.03**	**-35.90**	**-35.99**	**-35.91**	**-35.45**	**-35.97**	**-36.07**	**-36.45**	**-36.51**	**-36.55**	**-36.40**	**-36.54**	**-36.64**	**-36.92**
δD (CH_4)	‰	**-157.3**	**-155.4**	**-155.9**	**156.3**	**-156.1**	**-156.7**	**-158.9**	**-158.1**	**-144.0**	**-145.6**	**-146.0**	**-148.9**	**-143.5**	**-144.3**	**-149.6**	**-148.3**	**-147.4**	**-145.3**	**-149.3**	**-147.2**	**-153.0**	**-148.7**	**-152.4**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																								
Hydrogen Sulfide	ppmw	**28.9**	<0.1	<0.1	**0.4**	<0.1	<0.1	<0.1	**224.9**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**376.5**	**14.0**	**1.1**	**3.9**	**12.4**	<0.1	**8.3**	**16.9**

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 21								LDNR 22									LDNR 23							
	Sample ID																									
	Sample Date	10/22/24	11/21/24	12/18/24	1/28/25	2/24/25	3/19/25	4/22/25	7/24/25	10/22/24	11/19/24	11/21/24	12/16/24	1/28/25	2/19/25	3/19/25	4/22/25	7/24/25	10/21/24	11/19/24	12/18/24	1/28/25	2/24/25	3/20/25	4/22/25	7/24/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																								
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.26**
Helium	mol%	**0.0041**	**0.0062**	**0.0056**	**0.0046**	**0.0056**	**0.0041**	**0.0043**	**0.0045**	**0.0045**	**0.0030**	**0.0052**	NA	**0.0038**	**0.0051**	**0.0056**	ND	**0.0030**	**0.0045**	**0.0052**	**0.0049**	**0.0066**	**0.0038**	**0.0035**	**0.0036**	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	**0.0047**	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	**0.0037**	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.105**	**0.250**	**0.156**	**0.107**	**0.208**	**0.176**	**0.126**	**0.0733**	**0.107**	**0.167**	**0.148**	NA	**0.145**	**0.200**	**0.0806**	**0.387**	**0.248**	**0.128**	**0.137**	**0.217**	**0.101**	**0.223**	**0.105**	**0.0760**	**1.76**
Oxygen	mol%	**1.95**	**3.65**	**2.56**	**1.72**	**2.53**	**2.95**	**1.98**	**0.11**	**1.99**	**2.88**	**2.37**	NA	**2.90**	**2.44**	**1.20**	**7.79**	**2.99**	**2.68**	**2.14**	**4.04**	**1.78**	**4.38**	**1.71**	**0.84**	**4.85**
Nitrogen	mol%	**7.27**	**13.70**	**9.93**	**5.27**	**9.66**	**8.01**	**6.76**	**3.52**	**7.52**	**11.27**	**8.78**	NA	**9.44**	**8.91**	**3.93**	**28.43**	**14.22**	**8.42**	**8.55**	**9.59**	**4.79**	**15.28**	**5.40**	**3.48**	**83.67**
Carbon Dioxide	mol%	**3.60**	**0.69**	**1.74**	**1.12**	**0.58**	**0.41**	**1.53**	**4.01**	**1.23**	**0.83**	**0.81**	NA	**0.49**	**0.44**	**0.51**	**0.46**	**0.97**	**0.79**	**0.86**	**0.35**	**0.33**	**0.47**	**0.33**	**0.78**	**4.14**
Methane	mol%	**86.04**	**80.69**	**84.60**	**90.69**	**86.06**	**87.45**	**88.51**	**91.19**	**87.29**	**83.05**	**86.09**	NA	**85.35**	**86.36**	**92.43**	**61.69**	**79.67**	**86.47**	**86.74**	**84.41**	**91.39**	**78.35**	**90.87**	**93.10**	**5.29**
Ethane	mol%	**0.825**	**0.808**	**0.800**	**0.856**	**0.762**	**0.800**	**0.862**	**0.874**	**1.43**	**1.38**	**1.40**	NA	**1.26**	**1.23**	**1.39**	**0.94**	**1.59**	**1.05**	**1.13**	**0.972**	**1.130**	**0.922**	**1.130**	**1.23**	**0.0290**
Ethylene	mol%	ND	**0.0002**	ND	**0.0001**	ND	ND	ND	ND	**0.0042**	**0.0027**	**0.0018**	NA	**0.0035**	**0.0016**	**0.0020**	**0.0015**	ND	**0.0003**	ND	ND	ND	**0.0009**	ND	ND	ND
Propane	mol%	**0.0914**	**0.0990**	**0.0912**	**0.1040**	**0.0919**	**0.100**	**0.113**	**0.0951**	**0.221**	**0.210**	**0.204**	NA	**0.207**	**0.204**	**0.225**	**0.147**	**0.172**	**0.223**	**0.220**	**0.202**	**0.225**	**0.187**	**0.227**	**0.237**	**0.0047**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0557**	**0.0573**	**0.0558**	**0.0599**	**0.0549**	**0.0572**	**0.0581**	**0.0589**	**0.0695**	**0.0672**	**0.0657**	NA	**0.0679**	**0.0700**	**0.0741**	**0.0503**	**0.0523**	**0.0747**	**0.0735**	**0.0717**	**0.0781**	**0.0646**	**0.0774**	**0.0806**	**0.0012**
N-butane	mol%	**0.0037**	**0.0086**	**0.0041**	**0.0063**	**0.0040**	**0.0044**	**0.0089**	**0.0031**	**0.0600**	**0.0573**	**0.0542**	NA	**0.0572**	**0.0552**	**0.0618**	**0.0388**	**0.0381**	**0.0623**	**0.0638**	**0.0550**	**0.0636**	**0.0526**	**0.0660**	**0.0700**	ND
Iso-pentane	mol%	**0.0228**	**0.0232**	**0.0230**	**0.0252**	**0.0212**	**0.0225**	**0.0232**	**0.0275**	**0.0288**	**0.0279**	**0.0264**	NA	**0.0286**	**0.0284**	**0.0313**	**0.0211**	**0.0206**	**0.0339**	**0.0327**	**0.0308**	**0.0361**	**0.0280**	**0.0344**	**0.0366**	ND
N-pentane	mol%	**0.0004**	**0.0022**	**0.0004**	**0.0013**	**0.0004**	**0.0005**	**0.0020**	**0.0002**	**0.0200**	**0.0193**	**0.0178**	NA	**0.0199**	**0.0189**	**0.0216**	**0.0137**	**0.0104**	**0.0241**	**0.0236**	**0.0208**	**0.0256**	**0.0193**	**0.0244**	**0.0265**	ND
Hexanes +	mol%	**0.0261**	**0.0207**	**0.0246**	**0.0289**	**0.0186**	**0.0226**	**0.0228**	**0.0272**	**0.0339**	**0.0331**	**0.0261**	NA	**0.0334**	**0.0304**	**0.0369**	**0.0234**	**0.0156**	**0.0310**	**0.0286**	**0.0286**	**0.0371**	**0.0241**	**0.0300**	**0.0334**	**0.0016**
Stable Isotopes																										
$\delta^{13}C$ (CH_4)	‰	**-37.76**	**-37.70**	**-37.76**	**-37.70**	**-37.56**	**-37.56**	**-37.53**	**-37.77**	**-38.32**	**-38.44**	**-39.55**	NA	**-37.67**	**-37.59**	**-37.66**	**-37.66**	**-40.41**	**-36.80**	**-37.06**	**-36.81**	**-36.82**	**-36.31**	**-36.67**	**-36.65**	**-47.39**
δD (CH_4)	‰	**-143.3**	**-145.0**	**-145.7**	**-147.6**	**-142.4**	**-144.8**	**-146.6**	**-148.6**	**-154.1**	**-154.9**	**-159.9**	NA	**-154.3**	**-154.7**	**-153.6**	**-153.2**	**-166.8**	**-147.4**	**-152.2**	**-151.1**	**-148.5**	**-149.0**	**-157.6**	**-155.1**	**-194.0**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																										
Hydrogen Sulfide	ppmw	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**	**402.4**	**0.6**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 24								LDNR 25								LDNR 26							
	Sample ID																								
	Sample Date	10/21/24	11/20/24	12/17/24	1/28/25	2/18/25	3/17/25	4/21/25	7/22/25	10/22/24	11/21/24	12/18/24	1/28/25	2/24/25	3/18/25	4/23/25	7/23/25	10/21/24	11/20/24	12/17/24	1/28/25	2/17/25	3/17/25	4/21/25	7/22/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	DG	DG	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.25**	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	**0.0058**	**0.0048**	**0.0047**	**0.0045**	**0.0057**	**0.0057**	**0.0034**	**0.0045**	ND	ND	ND	ND	**0.0030**	ND	NA	NA	**0.0055**	**0.0049**	**0.0059**	**0.0045**	**0.0063**	**0.0062**	**0.0048**	**0.0051**
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.0809**	**0.0636**	**0.0309**	**0.0469**	**0.0300**	**0.0369**	**0.106**	**0.0222**	**0.154**	**0.241**	**0.219**	**0.138**	**0.197**	**0.0942**	**1.48**	**1.56**	**0.157**	**0.252**	**0.131**	**0.267**	**0.162**	**0.186**	**0.149**	**0.121**
Oxygen	mol%	**1.55**	**1.27**	**0.25**	**0.57**	**0.26**	**0.61**	**2.11**	**0.11**	**3.18**	**4.70**	**4.36**	**2.53**	**3.37**	**2.34**	**25.60**	**14.76**	**1.89**	**3.79**	**0.83**	**4.39**	**1.58**	**2.01**	**1.22**	**0.79**
Nitrogen	mol%	**6.49**	**5.30**	**1.73**	**2.88**	**1.76**	**1.87**	**8.44**	**1.28**	**8.98**	**16.47**	**9.45**	**6.48**	**9.79**	**4.35**	**71.19**	**77.20**	**10.24**	**17.67**	**7.53**	**19.42**	**9.36**	**10.74**	**8.58**	**6.73**
Carbon Dioxide	mol%	**2.41**	**2.69**	**2.51**	**1.82**	**2.29**	**1.66**	**2.32**	**3.05**	**1.76**	**1.14**	**0.49**	**0.60**	**0.42**	**1.87**	**1.44**	**4.40**	**1.43**	**0.94**	**1.20**	**1.07**	**0.62**	**0.56**	**1.25**	**1.59**
Methane	mol%	**88.13**	**89.31**	**94.00**	**93.27**	**94.22**	**94.38**	**85.70**	**94.08**	**83.86**	**75.60**	**84.14**	**87.98**	**84.16**	**89.75**	**0.283**	**1.84**	**85.39**	**76.55**	**89.38**	**74.09**	**87.37**	**85.63**	**87.84**	**89.81**
Ethane	mol%	**0.783**	**0.809**	**0.888**	**0.832**	**0.854**	**0.844**	**0.807**	**0.878**	**1.85**	**1.66**	**1.25**	**2.03**	**1.83**	**1.59**	**0.0031**	ND	**0.738**	**0.659**	**0.758**	**0.624**	**0.741**	**0.717**	**0.779**	**0.780**
Ethylene	mol%	**0.102**	**0.0942**	**0.0958**	**0.101**	**0.0979**	**0.100**	**0.0881**	**0.0842**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	**0.222**	**0.227**	**0.241**	**0.235**	**0.239**	**0.240**	**0.218**	**0.247**	**0.121**	**0.109**	**0.0581**	**0.1390**	**0.138**	**0.0059**	**0.0009**	ND	**0.0585**	**0.0531**	**0.0601**	**0.0495**	**0.0615**	**0.0599**	**0.0637**	**0.0631**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0711**	**0.0728**	**0.0774**	**0.0753**	**0.0762**	**0.0768**	**0.0692**	**0.0772**	**0.0337**	**0.0312**	**0.0172**	**0.0403**	**0.0417**	**0.0023**	ND	ND	**0.0745**	**0.0683**	**0.0777**	**0.0625**	**0.0787**	**0.0769**	**0.0798**	**0.0802**
N-butane	mol%	**0.0644**	**0.0662**	**0.0705**	**0.0673**	**0.0686**	**0.0691**	**0.0612**	**0.0690**	**0.0248**	**0.0247**	**0.0128**	**0.0308**	**0.0309**	**0.0013**	ND	ND	**0.0025**	**0.0022**	**0.0024**	**0.0019**	**0.0025**	**0.0025**	**0.0027**	**0.0029**
Iso-pentane	mol%	**0.0310**	**0.0325**	**0.0346**	**0.0329**	**0.0336**	**0.0342**	**0.0294**	**0.0364**	**0.0106**	**0.0099**	**0.0052**	**0.0123**	**0.0130**	**0.0004**	ND	ND	**0.0150**	**0.0135**	**0.0151**	**0.0120**	**0.0156**	**0.0151**	**0.0160**	**0.0188**
N-pentane	mol%	**0.0237**	**0.0252**	**0.0268**	**0.0251**	**0.0259**	**0.0265**	**0.0222**	**0.0262**	**0.0058**	**0.0057**	**0.0028**	**0.0067**	**0.0073**	**0.0002**	ND	ND	**0.0002**	**0.0001**	**0.0001**	ND	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Hexanes +	mol%	**0.0408**	**0.0404**	**0.0444**	**0.0415**	**0.0443**	**0.0458**	**0.0325**	**0.0473**	**0.0100**	**0.0081**	**0.0040**	**0.0120**	**0.0100**	**0.0006**	ND	ND	**0.0066**	**0.0041**	**0.0060**	**0.0052**	**0.0065**	**0.0047**	**0.0070**	**0.0062**
Stable Isotopes																									
$\delta^{13}C$ (CH_4)	‰	**-35.56**	**-35.39**	**-35.50**	**-35.48**	**-35.51**	**-35.44**	**-35.46**	**-35.47**	**-54.76**	**-54.66**	**-61.02**	**-52.62**	**-50.98**	**-68.47**	NA	**-45.4**	**-38.02**	**-37.95**	**-37.95**	**-38.03**	**-37.54**	**-37.93**	**-38.07**	**-37.95**
δD (CH_4)	‰	**-144.8**	**-143.9**	**-144.0**	**-144.9**	**-144.1**	**-145.4**	**-147.9**	**-146.3**	**-204.7**	**-209.7**	**-233.7**	**-206.9**	**-197.6**	**-236.8**	NA	**-154**	**-147.9**	**-146.6**	**-149.9**	**-151.8**	**-148.7**	**-152.2**	**-149.5**	**-154.0**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																									
Hydrogen Sulfide	ppmw	**120.4**	**54.8**	**10.7**	**5.2**	**2.2**	**0.2**	**2.2**	**127.7**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1	**1.4**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	LDNR 27							LDNR 28							SN 67269							
	Sample ID															PPG 7A BS							
	Sample Date	10/24/24	11/20/24	1/30/25	2/19/25	3/20/25	4/24/25	7/24/25	11/20/24	12/17/24	1/30/25	2/19/25	3/20/25	4/24/25	7/24/25	10/23/24	11/21/24	12/16/24	1/27/25	2/18/25	3/20/25	4/24/25	7/24/25
	Sample Type	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)																					
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0058**	**0.005**	**0.0050**	ND	**0.0045**	ND
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0040**	ND	ND	ND	**0.0039**	ND
Argon	mol%	**0.935**	**0.933**	**0.932**	**0.934**	**0.937**	**0.945**	**0.940**	**0.938**	**0.942**	**0.93**	**0.932**	**0.935**	**0.926**	**0.943**	**0.932**	**0.797**	**0.0762**	**0.0796**	**0.0441**	**0.933**	**0.0616**	**0.938**
Oxygen	mol%	**20.99**	**20.96**	**20.93**	**21.07**	**21.08**	**21.29**	**21.03**	**19.93**	**18.90**	**20.84**	**20.99**	**20.95**	**19.48**	**21.03**	**20.89**	**17.61**	**1.11**	**1.22**	**0.23**	**20.94**	**0.68**	**20.99**
Nitrogen	mol%	**78.02**	**78.05**	**78.09**	**77.95**	**77.94**	**77.71**	**77.96**	**78.55**	**77.80**	**78.01**	**78.03**	**77.93**	**76.23**	**77.90**	**77.73**	**66.42**	**5.89**	**5.65**	**3.03**	**77.81**	**4.20**	**77.78**
Carbon Dioxide	mol%	**0.057**	**0.047**	**0.042**	**0.042**	**0.044**	**0.049**	**0.069**	**0.54**	**1.21**	**0.061**	**0.047**	**0.084**	**0.68**	**0.12**	**0.066**	**0.091**	**0.087**	**0.063**	**0.10**	**0.043**	**0.11**	**0.070**
Methane	mol%	**0.0003**	**0.0036**	**0.0003**	**0.0025**	**0.0005**	**0.0021**	**0.0017**	**0.0480**	**1.14**	**0.162**	**0.0050**	**0.101**	**2.68**	**0.0055**	**0.378**	**14.90**	**91.70**	**91.91**	**95.46**	**0.270**	**93.86**	**0.220**
Ethane	mol%	ND	**0.0001**	ND	ND	ND	ND	ND	**0.0002**	**0.0041**	**0.0007**	ND	**0.0005**	**0.0056**	ND	**0.0025**	**0.126**	**0.785**	**0.739**	**0.775**	**0.0022**	**0.753**	**0.0015**
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0001**	**0.0001**	ND	ND	ND	ND
Propane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	**0.0018**	**0.0002**	ND	**0.0002**	**0.0018**	ND	**0.0007**	**0.0360**	**0.222**	**0.216**	**0.227**	**0.001**	**0.212**	**0.0004**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	**0.0018**	**0.0001**	ND	**0.0002**	**0.0024**	ND	**0.0004**	**0.0122**	**0.0775**	**0.0750**	**0.0790**	**0.0003**	**0.0747**	**0.0002**
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	**0.0004**	ND	ND	ND	**0.0004**	ND	**0.0001**	**0.0043**	**0.0270**	**0.0256**	**0.0271**	**0.0001**	**0.0262**	ND
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	**0.0003**	ND	ND	ND	**0.0004**	ND	ND	**0.0010**	**0.0063**	**0.0059**	**0.0064**	ND	**0.0066**	ND
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0003**	**0.0017**	**0.0015**	**0.0017**	ND	**0.0018**	ND
Hexanes +	mol%	**0.0004**	**0.0006**	**0.0003**	**0.0002**	**0.0003**	**0.0001**	**0.0007**	**0.0002**	**0.0002**	**0.0005**	**0.0001**	**0.0003**	**0.0002**	**0.0002**	**0.0002**	**0.0013**	**0.0045**	**0.0040**	**0.0062**	**0.0003**	**0.0045**	**0.0003**
Stable Isotopes																							
$\delta^{13}C$ (CH_4)	‰	NA	NA	NA	NA	NA	NA	NA	NA	**-19.78**	**-39.30**	NA	**-27.60**	**-25.51**	NA	**-27.33**	**-34.74**	**-34.77**	**-35.13**	**-35.15**	**-34.94**	**-34.90**	**-33.2**
δD (CH_4)	‰	NA	NA	NA	NA	NA	NA	NA	NA	**-93.0**	NA	NA	NA	**-107.0**	NA	**-139.0**	**-142.8**	**-137.0**	**-145.5**	**-143.0**	**-144.0**	**-144.1**	NA
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																							
Hydrogen Sulfide	ppmw	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	**0.4**

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	SN 67270					WW 11								WW 13							
	Sample ID	PPG 7B BS					019-580								019-582							
	Sample Date	12/16/24	1/27/25	2/19/25	3/19/25	4/23/25	10/23/24	12/17/24	1/30/25	2/17/25	3/18/25	4/24/25	5/15/25	9/17/25	10/23/24	11/19/24	1/30/25	2/17/25	3/20/25	7/22/25	8/20/25	9/16/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Surface Water (Bubble Site)					Industrial Water Wells															
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.999**	**1.27**	**1.38**	**1.39**	**1.07**	**1.71**	**1.70**	**1.68**	**1.70**	**1.81**	**1.47**	**1.68**	**1.65**	**1.78**	**1.67**	**1.12**	**1.13**	**1.83**	**1.60**	**1.67**	**1.71**
Oxygen	mol%	**20.26**	**11.9**	**0.76**	**17.15**	**1.86**	**4.65**	**4.82**	**3.58**	**3.83**	**1.73**	**9.00**	**4.80**	**4.40**	**2.95**	**3.77**	**2.06**	**0.97**	**2.20**	**8.70**	**6.02**	**4.06**
Nitrogen	mol%	**76.71**	**54.42**	**59.49**	**60.98**	**46.89**	**78.50**	**80.11**	**82.95**	**82.61**	**85.43**	**80.74**	**81.53**	**82.94**	**83.68**	**82.25**	**92.1**	**93.44**	**85.26**	**78.28**	**81.75**	**83.25**
Carbon Dioxide	mol%	**0.33**	**3.52**	**2.97**	**1.69**	**3.09**	**13.87**	**13.32**	**11.74**	**11.82**	**10.99**	**8.76**	**11.54**	**10.97**	**10.73**	**11.99**	**3.98**	**4.40**	**10.62**	**11.22**	**10.53**	**10.95**
Methane	mol%	**1.65**	**28.21**	**34.78**	**18.74**	**47.06**	**1.27**	**0.0431**	**0.0483**	**0.0430**	**0.0527**	**0.0358**	**0.4380**	**0.0443**	**0.851**	**0.314**	**0.733**	**0.0636**	**0.104**	**0.203**	**0.0328**	**0.0225**
Ethane	mol%	**0.0414**	**0.561**	**0.592**	**0.0505**	**0.0279**	**0.0016**	ND	**0.0008**	**0.0007**	**0.0007**	**0.0006**	**0.001**	ND	**0.003**	**0.0037**	**0.0012**	**0.0004**	ND	ND	ND	ND
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	**0.0089**	**0.0985**	**0.0194**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0032**	**0.0023**	**0.0017**	ND	ND	ND	ND	ND
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0009**	**0.0091**	**0.0084**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-butane	mol%	**0.0011**	**0.0098**	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	ND	**0.0012**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0002**	**0.0037**	**0.0024**	**0.0017**	ND	**0.0009**	**0.0012**	ND	**0.0017**	ND	ND	ND	**0.0017**	**0.0007**	ND	ND	**0.0005**	ND	ND	ND	ND
Stable Isotopes																						
$\delta^{13}C$ (CH_4)	‰	**-40.15**	**-43.50**	**-42.86**	**-41.54**	**-42.34**	**-59.30**	NA	NA	NA	NA	NA	**-59.90**	NA	**-79.90**	NA	**-90.40**	NA	NA	NA	NA	NA
δD (CH_4)	‰	**-143.6**	**-159.3**	**-150.7**	**-143.7**	**-145.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**-377.0**	NA	NA	NA	NA	NA
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																						
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	WW 12									WW 19							
	Sample ID	019-995									019-1055							
	Sample Date	10/23/24	11/19/24	2/17/25	3/18/25	4/24/25	5/15/25	7/22/25	8/20/25	9/16/25	10/23/24	11/19/24	12/17/24	1/30/25	4/29/25	5/13/25	8/21/25	9/16/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Industrial Water Wells																
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**1.70**	**1.72**	**1.61**	**1.85**	**1.72**	**1.75**	**1.64**	**1.68**	**1.72**	**1.71**	**1.50**	**1.65**	**1.74**	**1.69**	**1.59**	**1.67**	**1.75**
Oxygen	mol%	**4.13**	**6.67**	**4.44**	**1.80**	**5.14**	**3.79**	**8.18**	**6.56**	**5.93**	**5.21**	**3.70**	**4.79**	**2.38**	**2.69**	**6.04**	**7.38**	**6.24**
Nitrogen	mol%	**79.31**	**78.43**	**76.09**	**84.68**	**80.63**	**83.49**	**80.89**	**81.61**	**81.81**	**78.85**	**86.15**	**82.45**	**81.63**	**82.75**	**80.1**	**79.84**	**80.74**
Carbon Dioxide	mol%	**13.21**	**12.76**	**17.81**	**11.66**	**12.39**	**10.56**	**9.28**	**10.08**	**10.52**	**12.98**	**8.44**	**10.79**	**13.84**	**12.51**	**11.92**	**10.87**	**11.14**
Methane	mol%	**1.65**	**0.410**	**0.0526**	**0.0167**	**0.118**	**0.412**	**0.0126**	**0.0677**	**0.0133**	**1.260**	**0.209**	**0.315**	**0.394**	**0.355**	**0.341**	**0.246**	**0.124**
Ethane	mol%	**0.0027**	ND	ND	ND	ND	**0.0012**	ND	**0.0030**	ND	**0.0029**	**0.0011**	**0.0016**	**0.0023**	**0.0026**	**0.0017**	**0.0009**	ND
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	ND	ND	ND	ND	ND	ND	ND	**0.0014**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0018**	ND	**0.0011**	ND	ND	ND	ND	ND	**0.0008**	**0.0009**	ND	**0.0024**	ND	**0.0007**	**0.0008**	ND	**0.0011**
Stable Isotopes																		
$\delta^{13}C$ (CH_4)	‰	**-57.60**	**-64.90**	NA	NA	NA	**-63.90**	NA	NA	NA	**-67.10**	NA	**-55.20**	**-53.50**	**-46.9**	**-53.0**	NA	NA
δD (CH_4)	‰	**-114.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																		
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	WW 40								Cottages Well							
	Sample ID	019-1603								019-17636Z							
	Sample Date	10/23/24	11/19/24	12/18/24	1/30/25	2/18/25	3/20/25	6/18/25	7/22/25	10/23/24	11/19/24	12/18/24	4/23/25	5/13/25	6/18/25	8/20/25	9/16/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Industrial Water Wells															
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**1.55**	**1.09**	**1.31**	**1.65**	**1.57**	**1.65**	**1.55**	**1.52**	**1.56**	**1.34**	**1.60**	**1.50**	**1.58**	**1.68**	**1.64**	**1.65**
Oxygen	mol%	**6.88**	**11.22**	**10.43**	**4.21**	**5.30**	**5.07**	**8.43**	**8.88**	**0.34**	**8.70**	**2.48**	**11.60**	**7.01**	**5.71**	**6.75**	**5.80**
Nitrogen	mol%	**76.29**	**82.31**	**80.93**	**82.26**	**80.65**	**79.85**	**78.41**	**76.34**	**84.08**	**80.23**	**82.78**	**72.81**	**75.97**	**78.97**	**79.22**	**76.99**
Carbon Dioxide	mol%	**13.87**	**1.59**	**6.76**	**11.07**	**11.44**	**6.73**	**10.99**	**12.55**	**7.30**	**7.74**	**9.60**	**13.36**	**12.22**	**11.15**	**10.85**	**12.07**
Methane	mol%	**1.4**	**3.77**	**0.560**	**0.806**	**1.03**	**6.69**	**0.623**	**0.715**	**6.72**	**2.00**	**3.53**	**0.735**	**3.220**	**2.480**	**1.540**	**3.48**
Ethane	mol%	**0.0085**	**0.0032**	**0.0029**	**0.0036**	**0.0036**	**0.0096**	**0.0039**	**0.0036**	ND	ND	ND	ND	ND	ND	ND	**0.0009**
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	ND	**0.0004**	ND	ND	ND	**0.0010**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0007**	ND	ND	ND	ND	**0.0006**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0017**	**0.0002**	**0.0007**	**0.0008**	**0.0006**	**0.0010**	**0.0008**	ND	ND	ND	**0.0024**	ND	ND	ND	ND	**0.0025**
Stable Isotopes																	
$\delta^{13}C$ (CH_4)	‰	**-57.80**	**-82.86**	**-58.50**	**-61.50**	**-59.10**	**-86.25**	**-54.40**	**-56.2**	**-99.32**	**-94.40**	**-97.36**	**-76.9**	**-93.6**	**-89.0**	**-76.5**	**-92.5**
δD (CH_4)	‰	NA	**-252.0**	NA	NA	NA	**-246.4**	NA	NA	**-286.5**	**-274.0**	**-293.0**	NA	**-273.0**	**-242.0**	**-168.0**	**-265**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																	
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	MW-1												MW-1											
	Sample ID	MW-1-200												MW-1-500											
	Sample Date	10/21/24	11/18/24	12/16/24	1/29/25	2/18/25	3/17/25	4/22/25	5/13/25	6/19/25	7/21/25	8/20/25	9/15/25	10/21/24	11/18/24	12/16/24	1/29/25	2/18/25	3/17/25	4/22/25	5/13/25	6/19/25	7/21/25	8/20/25	9/16/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Monitoring Wells																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.328**	**0.338**	**0.358**	**0.326**	**0.336**	**0.352**	**0.398**	**0.348**	**0.355**	**0.370**	**0.347**	**0.355**	**1.11**	**1.04**	**1.01**	**1.01**	**0.948**	**1.01**	**0.967**	**0.961**	**1.05**	**1.06**	**1.05**	**1.09**
Oxygen	mol%	**1.42**	**1.56**	**1.80**	**0.97**	**1.34**	**1.47**	**3.05**	**1.68**	**2.14**	**2.74**	**1.96**	**1.88**	**4.00**	**5.61**	**4.38**	**2.42**	**3.54**	**3.14**	**10.54**	**10.66**	**5.63**	**8.18**	**5.09**	**4.05**
Nitrogen	mol%	**14.34**	**15.25**	**17.40**	**14.67**	**15.79**	**15.66**	**19.14**	**15.38**	**15.83**	**16.87**	**15.75**	**17.00**	**50.48**	**47.20**	**45.08**	**44.06**	**41.33**	**44.22**	**53.68**	**58.96**	**44.01**	**45.89**	**49.32**	**48.60**
Carbon Dioxide	mol%	**0.64**	**0.27**	**0.37**	**0.45**	**0.39**	**0.21**	**0.36**	**0.19**	**0.29**	**0.40**	**0.51**	**0.34**	**0.24**	**0.30**	**0.20**	**0.14**	**0.36**	**0.21**	**0.38**	**0.16**	**0.26**	**0.39**	**0.18**	**0.26**
Methane	mol%	**83.23**	**82.55**	**80.04**	**83.55**	**82.11**	**82.28**	**77.03**	**82.37**	**81.35**	**79.59**	**81.41**	**80.39**	**44.17**	**45.85**	**49.34**	**52.36**	**53.82**	**51.43**	**34.43**	**29.26**	**49.04**	**44.48**	**44.36**	**46.00**
Ethane	mol%	**0.0332**	**0.0314**	**0.0290**	**0.0324**	**0.0315**	**0.0296**	**0.0277**	**0.0320**	**0.0316**	**0.0311**	**0.0328**	**0.0307**	**0.0009**	**0.0008**	**0.0008**	**0.0009**	**0.0011**	**0.0006**	**0.0006**	ND	**0.0005**	ND	ND	**0.0005**
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	ND	**0.0001**	ND	ND	**0.002**	ND	ND	ND	**0.0002**	ND	ND	**0.0002**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	ND	**0.0002**	**0.0002**	**0.0006**	**0.0004**	ND	**0.0002**	**0.0002**	ND	ND	ND	**0.0004**	**0.0007**	ND	**0.0004**	ND	ND	ND	**0.0005**	**0.0005**	**0.0012**	ND	ND	**0.0019**
Stable Isotopes																									
$\delta^{13}C$ (CH_4)	‰	**-56.38**	**-56.68**	**-56.46**	**-56.61**	**-56.55**	**-56.50**	**-56.43**	**-56.75**	**-56.76**	**-56.31**	**-56.49**	**-56.54**	**-72.46**	**-74.10**	**-72.94**	**-67.96**	**-65.85**	**-64.60**	**-64.42**	**-64.76**	**-63.65**	**-63.08**	**-63.09**	**-63.31**
δD (CH_4)	‰	**-190.8**	**-191.7**	**-186.2**	**-194.9**	**-190.5**	**-194.0**	**-197.8**	**-192.3**	**-200.4**	**-197.2**	**-199.4**	**-201.9**	**-303.6**	**-309.9**	**-310.8**	**-314.6**	**-300.2**	**-302.5**	**-295.9**	**-301.2**	**-307.5**	**-294.8**	**-307.0**	**-308.4**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																									
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	MW-1												MW-2											
	Sample ID	MW-1-700												MW-2-200											
	Sample Date	10/21/24	11/19/24	12/16/24	1/29/25	2/18/25	3/18/25	4/22/25	5/13/25	6/19/25	7/22/25	8/20/25	9/16/25	10/23/24	11/19/24	12/18/24	1/28/25	2/19/25	3/19/25	4/23/25	5/15/25	6/18/25	7/22/25	8/21/25	9/17/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Monitoring Wells																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.0088**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**1.44**	**1.42**	**1.35**	**1.29**	**1.28**	**1.39**	**1.23**	**1.19**	**1.29**	**1.28**	**1.32**	**1.28**	**0.849**	**0.256**	**0.533**	**0.213**	**0.257**	**0.254**	**0.294**	**0.303**	**0.411**	**0.389**	**0.404**	**0.438**
Oxygen	mol%	**5.04**	**5.05**	**4.40**	**2.82**	**1.98**	**1.59**	**4.60**	**6.27**	**5.35**	**6.21**	**5.57**	**7.71**	**18.60**	**2.03**	**9.88**	**0.87**	**2.00**	**1.17**	**3.39**	**2.37**	**6.31**	**5.33**	**3.65**	**4.26**
Nitrogen	mol%	**65.59**	**64.63**	**60.64**	**55.91**	**56.83**	**57.22**	**55.67**	**64.04**	**61.45**	**59.50**	**61.75**	**66.32**	**71.72**	**9.61**	**41.08**	**7.08**	**9.41**	**8.64**	**11.78**	**13.50**	**18.29**	**15.38**	**19.95**	**17.64**
Carbon Dioxide	mol%	**0.1**	**0.11**	**0.11**	**0.054**	**0.071**	**0.075**	**0.086**	**0.023**	**0.054**	**0.067**	**0.055**	**0.050**	**0.044**	**0.094**	**0.063**	**0.069**	**0.16**	**0.18**	**0.12**	**0.31**	**0.17**	**0.21**	**0.22**	**0.37**
Methane	mol%	**27.82**	**28.78**	**33.50**	**39.91**	**39.83**	**39.72**	**38.40**	**28.47**	**31.85**	**32.94**	**31.30**	**24.65**	**8.78**	**87.94**	**48.41**	**91.68**	**88.09**	**89.68**	**84.35**	**83.47**	**74.75**	**78.63**	**75.73**	**77.25**
Ethane	mol%	**0.0037**	**0.0035**	**0.0034**	**0.0031**	**0.0035**	**0.0030**	**0.0031**	**0.0024**	**0.0023**	**0.0021**	**0.0022**	**0.0018**	**0.0067**	**0.0723**	**0.0412**	**0.0818**	**0.0794**	**0.0720**	**0.0742**	**0.0512**	**0.0629**	**0.0589**	**0.0447**	**0.0446**
Ethylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	ND	ND	ND	ND	ND	ND	ND	**0.0007**	ND	ND	ND	ND	**0.0001**	**0.0011**	**0.0006**	**0.0016**	**0.0015**	**0.0011**	**0.0011**	**0.0005**	**0.0008**	**0.0006**	**0.0003**	**0.0004**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0022**	**0.0021**	**0.0020**	**0.0015**	**0.0018**	**0.0016**	**0.0017**	**0.0016**	**0.0014**	**0.0016**	ND	**0.0011**	ND	**0.0004**	ND	**0.0002**	ND	ND	ND	ND	ND	ND	ND	ND
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	**0.0006**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0010**	ND	**0.0008**	**0.0021**	ND	ND	**0.0007**	**0.0021**	ND	ND	ND	**0.0006**	**0.0002**	**0.0004**	**0.0002**	**0.0003**	ND	ND	**0.0005**	ND	ND	ND	ND	**0.0008**
Stable Isotopes																									
$\delta^{13}C$ (CH_4)	‰	**-86.87**	**-87.87**	**-89.86**	**-88.29**	**-86.93**	**-86.35**	**-85.30**	**-84.07**	**-81.69**	**-81.48**	**-79.81**	**-80.13**	**-49.58**	**-49.20**	**-49.11**	**-49.12**	**-48.78**	**-48.74**	**-48.64**	**-50.16**	**-50.08**	**-50.03**	**-50.24**	**-50.84**
δD (CH_4)	‰	**-264.1**	**-259.6**	**-266.3**	**-290.6**	**-286.3**	**-285.0**	**-283.8**	**-284.5**	**-295.4**	**-290.2**	**-286.2**	**-294.2**	**-174.3**	**-179.1**	**-180.4**	**-180.0**	**-175.8**	**-179.8**	**-182.6**	**-181.9**	**-187.0**	**-188.7**	**-188.5**	**-189.7**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																									
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	MW-2											MW-2											
	Sample ID	MW-2-500											MW-2-700											
	Sample Date	10/23/24	11/19/24	12/18/24	1/28/25	2/19/25	4/23/25	5/15/25	6/18/25	7/24/25	8/21/25	9/16/25	10/23/24	11/19/24	12/18/24	1/28/25	2/19/25	3/19/25	4/23/25	5/15/25	6/18/25	7/22/25	8/21/25	9/17/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Monitoring Wells																						
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**1.01**	**1.22**	**1.22**	**1.28**	**1.26**	**1.40**	**1.11**	**1.16**	**1.25**	**1.23**	**1.30**	**1.97**	**1.95**	**1.26**	**1.61**	**1.87**	**1.73**	**1.72**	**1.14**	**1.64**	**1.63**	**1.54**	**1.52**
Oxygen	mol%	**11.77**	**3.49**	**2.11**	**2.09**	**1.34**	**6.05**	**5.01**	**5.57**	**7.74**	**3.71**	**5.93**	**0.28**	**0.43**	**11.19**	**4.42**	**0.16**	**5.09**	**3.88**	**14.03**	**6.60**	**7.84**	**4.46**	**4.32**
Nitrogen	mol%	**71.62**	**56.52**	**56.45**	**52.36**	**56.68**	**62.38**	**54.88**	**52.17**	**64.44**	**59.39**	**57.25**	**90.82**	**90.51**	**84.57**	**87.14**	**86.40**	**84.17**	**80.34**	**80.12**	**76.31**	**73.08**	**73.49**	**70.53**
Carbon Dioxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methane	mol%	**15.60**	**38.76**	**40.21**	**44.25**	**40.70**	**30.16**	**38.99**	**41.09**	**26.56**	**35.66**	**35.51**	**6.92**	**7.10**	**2.98**	**6.82**	**11.55**	**9.00**	**14.05**	**4.70**	**15.45**	**17.45**	**20.50**	**23.61**
Ethane	mol%	**0.0035**	**0.0079**	**0.0072**	**0.0069**	**0.0056**	**0.0037**	**0.0045**	**0.0053**	**0.0039**	**0.0040**	**0.0044**	**0.0056**	**0.0054**	**0.0020**	**0.0038**	**0.0043**	**0.0040**	**0.0048**	**0.0021**	**0.0046**	**0.0042**	**0.0040**	**0.0046**
Ethylene	mol%	**0.0002**	ND	**0.0005**	**0.0005**	ND	ND	ND	ND	ND	ND	ND	**0.0009**	**0.0009**	**0.0003**	**0.0010**	**0.0012**	**0.0009**	**0.0008**	**0.0003**	**0.0007**	**0.0007**	**0.0006**	**0.0009**
Propane	mol%	**0.0006**	**0.0013**	**0.0012**	**0.0011**	**0.0010**	ND	**0.0007**	**0.0007**	**0.0006**	**0.0006**	ND	**0.0018**	**0.0018**	**0.0006**	**0.0010**	**0.0014**	**0.0012**	**0.0012**	**0.0004**	**0.0011**	**0.0010**	**0.0010**	**0.0010**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	**0.0016**	**0.0034**	**0.0031**	**0.0029**	**0.0028**	**0.0021**	**0.0021**	**0.0022**	**0.0019**	**0.0021**	**0.0016**	**0.0026**	**0.0023**	**0.0009**	**0.0014**	**0.0022**	**0.0017**	**0.0018**	**0.0005**	**0.0016**	**0.0012**	**0.0013**	**0.0015**
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0115**
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0010**	ND	**0.0005**	**0.0031**	**0.0005**	**0.0011**	ND	ND	**0.0010**	ND	**0.0013**	**0.0011**	ND	ND	**0.0008**	ND	ND	**0.0017**	ND	ND	ND	ND	**0.0011**
Stable Isotopes																								
$\delta^{13}C$ (CH_4)	‰	**-66.24**	**-68.96**	**-71.06**	**-73.32**	**-75.23**	**-76.48**	**-74.79**	**-75.41**	**-75.90**	**-76.68**	**-76.93**	**-70.85**	**-70.48**	**-72.92**	**-75.32**	**-76.73**	**-75.55**	**-76.70**	**-74.23**	**-78.46**	**-80.25**	**-81.60**	**-82.44**
δD (CH_4)	‰	**-289.5**	**-279.3**	**-292.8**	**-313.0**	**-312.0**	**-297.6**	**-293.6**	**-310.4**	**-304.1**	**-305.8**	**-313.1**	**-203.0**	**-214.0**	**-206.8**	**-234.6**	**-242.7**	**-253.6**	**-258.1**	**-252.7**	**-271.6**	**-284.5**	**-297.0**	**-303.0**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																								
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	MW-3												MW-3											
	Sample ID	MW-3-200												MW-3-500											
	Sample Date	10/22/24	11/20/24	12/17/24	1/27/25	2/17/25	3/18/25	4/22/25	5/14/25	6/17/25	7/23/25	8/19/25	9/25/25	10/22/24	11/20/24	12/17/24	1/28/25	2/17/25	3/18/25	4/21/25	5/14/25	6/17/25	7/23/25	7/24/25	8/19/25	9/18/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Monitoring Wells																							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**0.271**	**0.335**	**0.260**	**0.396**	**0.205**	**0.234**	**0.284**	**0.491**	**0.477**	**0.284**	**0.365**	**0.237**	**0.809**	**0.821**	**0.798**	**0.868**	**0.830**	**0.769**	**0.892**	**0.884**	**0.892**	**0.903**	**0.637**	**0.586**	**0.693**
Oxygen	mol%	**2.48**	**1.29**	**1.11**	**6.50**	**0.75**	**1.55**	**3.42**	**5.16**	**8.84**	**4.45**	**1.67**	**2.78**	**0.47**	**0.32**	**1.10**	**13.34**	**2.41**	**0.057**	**5.15**	**5.80**	**6.48**	**6.69**	**0.072**	**0.096**	**3.86**
Nitrogen	mol%	**10.37**	**12.68**	**9.28**	**28.95**	**7.05**	**9.23**	**12.72**	**29.82**	**34.64**	**11.15**	**15.72**	**10.32**	**32.84**	**33.45**	**34.41**	**65.03**	**38.36**	**39.36**	**38.20**	**43.58**	**38.46**	**40.52**	**24.29**	**26.65**	**28.52**
Carbon Dioxide	mol%	**0.029**	ND	**0.024**	**0.13**	**0.12**	**0.27**	**0.26**	ND	**0.091**	**0.45**	**0.11**	**0.77**	ND	ND	ND	ND	ND	**1.00**	ND	ND	ND	ND	**1.26**	**3.11**	ND
Methane	mol%	**86.80**	**85.63**	**89.27**	**63.99**	**91.82**	**88.67**	**83.27**	**64.48**	**55.93**	**83.62**	**82.10**	**85.85**	**65.19**	**64.73**	**63.03**	**20.54**	**57.78**	**58.22**	**55.16**	**49.21**	**53.59**	**51.35**	**73.00**	**68.81**	**66.17**
Ethane	mol%	**0.0513**	**0.0599**	**0.0544**	**0.0364**	**0.0524**	**0.0530**	**0.0462**	**0.0395**	**0.0315**	**0.0481**	**0.0456**	**0.0461**	**0.606**	**0.630**	**0.594**	**0.190**	**0.545**	**0.534**	**0.528**	**0.491**	**0.514**	**0.499**	**0.656**	**0.684**	**0.656**
Ethylene	mol%	ND	ND	ND	**0.0003**	ND	ND	ND	ND	ND	ND	ND	ND	**0.0029**	**0.0024**	**0.0024**	**0.0008**	**0.0018**	**0.0011**	**0.0022**	**0.0019**	**0.0020**	**0.0018**	**0.0013**	**0.0006**	**0.0017**
Propane	mol%	ND	ND	ND	ND	ND	ND	ND	**0.0003**	ND	ND	ND	ND	**0.0312**	**0.0314**	**0.0283**	**0.0079**	**0.0237**	**0.0239**	**0.0197**	**0.0127**	**0.0177**	**0.0165**	**0.0324**	**0.0384**	**0.0353**
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0106**	**0.0125**	**0.0120**	**0.0036**	**0.0143**	**0.0149**	**0.0132**	**0.0007**	**0.0127**	**0.0120**	**0.0112**	**0.0195**	**0.0149**
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.001**	**0.0012**	**0.0010**	**0.0003**	**0.0010**	**0.0010**	**0.0008**	ND	**0.0007**	**0.0007**	**0.0009**	**0.0013**	**0.0011**
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0005**	**0.0005**	ND	ND	ND	ND	**0.0004**	**0.0008**	**0.0005**
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.0005**	**0.0006**	**0.0009**	**0.0009**	**0.0009**	ND	ND	ND	ND	ND	ND	**0.0003**	**0.0365**	**0.0081**	**0.0281**	**0.0122**	**0.0276**	**0.0249**	**0.0336**	**0.008**	**0.0351**	**0.0069**	**0.0462**	**0.0074**	**0.0455**
Stable Isotopes																										
$\delta^{13}C$ (CH_4)	‰	**-47.34**	**-47.41**	**-47.33**	**-47.37**	**-47.29**	**-47.09**	**-47.19**	**-46.85**	**-46.88**	**-46.91**	**-46.75**	**-46.81**	**-44.75**	**-45.11**	**-45.00**	**-44.91**	**-44.98**	**-44.54**	**-44.66**	**-44.78**	**-44.71**	**-44.54**	**-44.15**	**-43.92**	**-43.86**
δD (CH_4)	‰	**-186.7**	**-184.9**	**-180.4**	**-182.9**	**-191.0**	**-194.3**	**-183.9**	**-182.3**	**-188.9**	**-190.9**	**-191.7**	**-192.7**	**-154.0**	**-153.4**	**-159.4**	**-151.8**	**-149.5**	**-155.0**	**-152.2**	**-149.6**	**-157.4**	**-152.7**	**-155.9**	**-154.9**	**-156.2**
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																										
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 5
Gas Data Summary
Sulphur Dome
Calcasieu Parish, Louisiana

	Sample Location	MW-3											BCKGRD ATM							
	Sample ID	MW-3-700																		
	Sample Date	10/22/24	11/20/24	12/17/24	1/28/25	2/18/25	3/19/25	4/21/25	5/14/25	6/17/25	8/20/25	9/17/25	10/24/24	11/18/24	12/16/24	1/30/25	2/19/25	3/19/25	4/24/25	7/24/25
	Sample Type	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	DG	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
	Sampler	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM	ERM
Component	**Units**	Monitoring Wells											Background							
Carbon Monoxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Helium	mol%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Hydrogen	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Argon	mol%	**1.24**	**1.24**	**1.21**	**1.20**	**1.19**	**1.26**	**1.16**	**1.01**	**1.21**	**1.29**	**1.33**	**0.932**	**0.930**	**0.942**	**0.931**	**0.937**	**0.936**	**0.941**	**0.941**
Oxygen	mol%	**3.38**	**4.83**	**3.67**	**5.06**	**3.78**	**3.51**	**6.19**	**13.48**	**6.97**	**7.07**	**8.77**	**20.93**	**20.88**	**21.24**	**20.91**	**21.15**	**21.10**	**21.21**	**21.16**
Nitrogen	mol%	**56.78**	**55.18**	**54.75**	**57.78**	**53.77**	**50.11**	**51.21**	**69.57**	**56.52**	**57.69**	**60.72**	**78.08**	**78.15**	**77.76**	**78.11**	**77.87**	**77.92**	**77.72**	**77.84**
Carbon Dioxide	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.061**	**0.043**	**0.050**	**0.044**	**0.044**	**0.043**	**0.070**	**0.053**
Methane	mol%	**38.54**	**38.71**	**40.32**	**35.91**	**41.21**	**45.07**	**41.40**	**15.92**	**35.27**	**33.92**	**29.15**	**0.0006**	**0.0011**	**0.0041**	**0.0003**	**0.0021**	**0.0012**	**0.0585**	**0.0010**
Ethane	mol%	**0.0467**	**0.0472**	**0.0432**	**0.0385**	**0.0392**	**0.0411**	**0.0363**	**0.0151**	**0.0329**	**0.0322**	**0.0245**	ND	ND	**0.003**	ND	ND	ND	**0.0016**	ND
Ethylene	mol%	ND	ND	**0.0005**	**0.0004**	**0.0006**	**0.0007**	**0.0007**	ND	**0.0006**	**0.0008**	**0.0010**	ND	ND	ND	ND	ND	ND	ND	ND
Propane	mol%	**0.0042**	**0.0041**	**0.0037**	**0.0032**	**0.0032**	**0.0031**	**0.0029**	**0.0012**	**0.0029**	**0.0027**	**0.0020**	ND	ND	ND	ND	ND	ND	**0.0003**	ND
Propylene	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iso-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0001**	ND
N-butane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0001**	ND
Iso-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-pentane	mol%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanes +	mol%	**0.001**	ND	ND	**0.0013**	ND	**0.0006**	ND	ND	ND	ND	**0.0010**	ND	**0.0002**	**0.0001**	**0.0002**	ND	**0.0004**	**0.0003**	**0.0002**
Stable Isotopes																				
$\delta^{13}C$ (CH_4)	‰	**-64.83**	**-63.98**	**-63.22**	**-62.39**	**-62.41**	**-62.31**	**-62.65**	**-62.73**	**-63.20**	**-64.68**	**-65.47**	NA	NA	NA	NA	NA	NA	**-35.60**	NA
δD (CH_4)	‰	**-256.0**	**-253.6**	**-266.2**	**-276.8**	**-278.8**	**-279.4**	**-271.5**	**269.4**	**-285.4**	**-287.0**	**-285.4**	NA	NA	NA	NA	NA	NA	NA	NA
$\delta^{13}C$ (CO_2)	‰	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen Sulfide																				
Hydrogen Sulfide	ppmw	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**	<0.1

Notes:
Bolded values deteted in the sample.
ND - Not Detected
NA - Not Analyzed (insufficient volume)
DG - dissolved gas sample, collected via IsoFlask
Gas - gas sample, collected via IsoBag

Table 6
Survey Results and Groundwater Elevations
Sulphur Dome
Calcasieu Parish, Louisiana

Well ID	UTM X	UTM Y	Screened Interval	Screen Length	Top of Casing Elevation	Ground Elevation	Stickup	Total Depth	Mid Screen	Mid Screen Elevation	TDS	Calcuated Density	10/21/2024			11/18/2024			12/16/2024			1/27/2025		
													DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH
	m	m	ft bgs	ft	ft	ft	ft	ft btoc	ft bgs	ft	mg/L	kg/m^3	ft btoc	ft	ft	ft btoc	ft	ft	ft btoc	ft	ft	ft btoc	ft	ft
MW-1-200	460257.857	3347201.961	162-172	10	12.75	9.22	3.53	175.81	167	-158.06	328	998.434	23.60	-10.85	-10.82	23.61	-10.86	-10.83	23.85	-11.10	-11.07	23.68	-10.93	-10.90
MW-1-500	460260.314	3347203.590	503-513	10	12.11	9.30	2.81	515.90	508	-498.79	296	998.411	55.67	-43.56	-43.46	56.40	-44.29	-44.19	55.84	-43.73	-43.63	55.16	-43.05	-42.95
MW-1-700	460262.682	3347205.242	694-674	10	12.17	9.26	2.91	708.40	699	-691.23	494	998.553	55.03	-42.86	-42.63	55.42	-43.25	-43.02	55.19	-43.02	-42.79	54.52	-42.35	-42.12
MW-2-200	460190.048	3346592.350	230-240	10	14.56	11.40	3.16	243.06	235	-223.50	260	998.386	47.79	-33.23	-33.20	47.75	-33.19	-33.16	48.21	-33.65	-33.62	47.99	-33.43	-33.40
MW-2-500	460186.918	3346593.844	502-512	10	14.61	11.51	3.10	515.10	507	-495.49	296	998.411	60.03	-45.42	-45.32	60.45	-45.84	-45.74	60.33	-45.72	-45.62	59.49	-44.88	-44.78
MW-2-700	460198.229	3346589.473	680-690	10	14.69	11.09	3.60	694.60	685	-674.91	594	998.624	60.01	-45.32	-45.05	60.37	-45.68	-45.41	62.50	-47.81	-47.54	59.44	-44.75	-44.48
MW-3-200	460555.076	3346638.627	228-238	10	14.74	12.04	2.70	242.69	233	-222.95	552	998.594	53.00	-38.26	-38.19	52.94	-38.20	-38.13	53.50	-38.76	-38.69	53.18	-38.44	-38.37
MW-3-500	460555.867	3346635.699	464-474	10	15.08	11.64	3.44	475.95	469	-455.87	2,220	999.786	59.26	-44.18	-43.53	59.55	-44.47	-43.82	59.48	-44.40	-43.75	58.65	-43.57	-42.92
MW-3-700	460557.858	3346628.300	680-690	10	14.41	11.53	2.88	695.38	685	-675.97	4,320	1,001.286	59.12	-44.71	-42.76	59.51	-45.10	-43.15	59.40	-44.99	-43.04	58.66	-44.25	-42.30

Well ID	UTM X	UTM Y	Screened Interval	Screen Length	Top of Casing Elevation	Ground Elevation	Stickup	Total Depth	Mid Screen	Mid Screen Elevation	TDS	Calcuated Density	2/17/2025			3/17/2025			4/21/2025			5/13/2025		
													DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH
	m	m	ft bgs	ft	ft	ft	ft	ft btoc	ft bgs	ft	mg/L	kg/m^3	ft btoc	ft	ft	ft btoc	ft	ft	ft btoc	ft	ft	ft btoc	ft	ft
MW-1-200	460257.857	3347201.961	162-172	10	12.75	9.22	3.53	175.81	167	-158.06	328	998.434	23.55	-10.80	-10.77	23.21	-10.46	-10.43	22.88	-10.13	-10.10	22.40	-9.65	-9.62
MW-1-500	460260.314	3347203.590	503-513	10	12.11	9.30	2.81	515.90	508	-498.79	296	998.411	55.19	-43.08	-42.98	54.33	-42.22	-42.12	53.69	-41.58	-41.48	52.92	-40.81	-40.71
MW-1-700	460262.682	3347205.242	694-674	10	12.17	9.26	2.91	708.40	699	-691.23	494	998.553	54.54	-42.37	-42.14	53.69	-41.52	-41.29	53.10	-40.93	-40.70	52.34	-40.17	-39.94
MW-2-200	460190.048	3346592.350	230-240	10	14.56	11.40	3.16	243.06	235	-223.50	260	998.386	48.07	-33.51	-33.48	47.75	-33.19	-33.16	47.34	-32.78	-32.75	46.90	-32.34	-32.31
MW-2-500	460186.918	3346593.844	502-512	10	14.61	11.51	3.10	515.10	507	-495.49	296	998.411	59.52	-44.91	-44.81	58.29	-43.68	-43.58	58.05	-43.44	-43.34	57.14	-42.53	-42.43
MW-2-700	460198.229	3346589.473	680-690	10	14.69	11.09	3.60	694.60	685	-674.91	594	998.624	59.47	-44.78	-44.51	59.30	-44.61	-44.34	58.02	-43.33	-43.06	57.13	-42.44	-42.17
MW-3-200	460555.076	3346638.627	228-238	10	14.74	12.04	2.70	242.69	233	-222.95	552	998.594	53.40	-38.66	-38.59	52.85	-38.11	-38.04	52.32	-37.58	-37.51	51.68	-36.94	-36.87
MW-3-500	460555.867	3346635.699	464-474	10	15.08	11.64	3.44	475.95	469	-455.87	2,220	999.786	58.62	-43.54	-42.88	57.42	-42.34	-41.68	57.18	-42.10	-41.44	56.45	-41.37	-40.71
MW-3-700	460557.858	3346628.300	680-690	10	14.41	11.53	2.88	695.38	685	-675.97	4,320	1,001.286	58.57	-44.16	-42.21	57.35	-42.94	-40.98	57.07	-42.66	-40.70	56.28	-41.87	-39.91

Well ID	UTM X	UTM Y	Screened Interval	Screen Length	Top of Casing Elevation	Ground Elevation	Stickup	Total Depth	Mid Screen	Mid Screen Elevation	TDS	Calcuated Density	6/19/2025			7/21/2025			8/19/2025			9/15/2025		
													DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH	DTW	Water Elevation	EFWH
	m	m	ft bgs	ft	ft	ft	ft	ft btoc	ft bgs	ft	mg/L	kg/m^3	ft btoc	ft	ft	ft btoc	ft	ft	ft btoc	ft	ft	ft btoc	ft	ft
MW-1-200	460257.857	3347201.961	162-172	10	12.75	9.22	3.53	175.81	167	-158.06	328	998.434	22.29	-9.54	-9.51	22.45	-9.70	-9.67	22.70	-9.95	-9.92	22.56	-9.81	-9.78
MW-1-500	460260.314	3347203.590	503-513	10	12.11	9.30	2.81	515.90	508	-498.79	296	998.411	54.47	-42.36	-42.26	56.24	-44.13	-44.03	55.65	-43.54	-43.44	55.90[a]	-43.79	-43.69
MW-1-700	460262.682	3347205.242	694-674	10	12.17	9.26	2.91	708.40	699	-691.23	494	998.553	53.91	-41.74	-41.51	55.56	-43.39	-43.16	55.00	-42.83	-42.60	54.97	-42.80	-42.57
MW-2-200	460190.048	3346592.350	230-240	10	14.56	11.40	3.16	243.06	235	-223.50	260	998.386	47.04	-32.48	-32.45	47.45	-32.89	-32.86	47.45	-32.89	-32.86	47.70	-33.14	-33.11
MW-2-500	460186.918	3346593.844	502-512	10	14.61	11.51	3.10	515.10	507	-495.49	296	998.411	58.76	-44.15	-44.05	60.60	-45.99	-45.89	59.65	-45.04	-44.94	59.66	-45.05	-44.95
MW-2-700	460198.229	3346589.473	680-690	10	14.69	11.09	3.60	694.60	685	-674.91	594	998.624	58.74	-44.05	-43.78	60.50	-45.81	-45.54	59.71	-45.02	-44.75	59.64	-44.95	-44.68
MW-3-200	460555.076	3346638.627	228-238	10	14.74	12.04	2.70	242.69	233	-222.95	552	998.594	52.20	-37.46	-37.39	52.91	-38.17	-38.10	53.25	-38.51	-38.44	55.42	-40.68	-40.61
MW-3-500	460555.867	3346635.699	464-474	10	15.08	11.64	3.44	475.95	469	-455.87	2,220	999.786	58.13	-43.05	-42.39	59.90	-44.82	-44.17	59.19	-44.11	-43.46	59.15	-44.07	-43.42
MW-3-700	460557.858	3346628.300	680-690	10	14.41	11.53	2.88	695.38	685	-675.97	4,320	1,001.286	57.83	-43.42	-41.46	59.53	-45.12	-43.17	58.71	-44.30	-42.35	58.69	-44.28	-42.33

Notes:
Coordinates, Top of Casing Elevation, and Ground elevation data from Mayeux Surveying.
All elevation data are referenced to NAVD '88 datum.
Depth to water (DTW) measurements are shown as depth below top of casing (btoc).
Density is calculated using Langevin, et al., 2003.
ft bgs = feet below ground surface
EFWH = Equivalent fresh water head (corrected for density based on TDS), based on Post, et al., 2007.
[a] - Water level collected prior to sampling

ATTACHMENT 1 LABORATORY REPORTS

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070861-001A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-26
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 18:29:37 by EKK

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 08:00
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	9.457	14.927	
Methane	88.197	79.723	
Carbon Dioxide	1.414	3.506	
Ethane	0.754	1.277	0.202
Propane	0.064	0.159	0.018
Iso-butane	0.083	0.272	0.027
n-Butane	0.003	0.010	0.001
Iso-pentane	0.018	0.073	0.007
n-Pentane	NIL	NIL	NIL
Hexanes Plus	0.010	0.053	0.004
	100.000	100.000	0.259

GPM TOTAL C2+	0.259
GPM TOTAL C3+	0.057
GPM TOTAL iC5+	0.011

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6137	3.2176
Calculated Molecular Weight	17.75	93.19
Compressibility Factor	0.9982	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	911	5129
Water Sat. Gas Base BTU	896	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-001A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

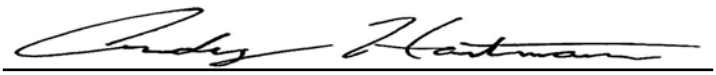
Station Name: LDNR-26
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 08:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	0.2	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070861-002A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: MS-LDNR-26
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 18:52:44 by EKK

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 08:00
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	9.421	14.846	
Methane	88.113	79.516	
Carbon Dioxide	1.528	3.783	
Ethane	0.758	1.282	0.203
Propane	0.064	0.159	0.018
Iso-butane	0.083	0.271	0.027
n-Butane	0.003	0.010	0.001
Iso-pentane	0.020	0.081	0.007
n-Pentane	NIL	NIL	NIL
Hexanes Plus	0.010	0.052	0.004
	100.000	100.000	0.260

GPM TOTAL C2+	0.260
GPM TOTAL C3+	0.057
GPM TOTAL iC5+	0.011

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6147	3.2176
Calculated Molecular Weight	17.78	93.19
Compressibility Factor	0.9982	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	911	5129
Water Sat. Gas Base BTU	895	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Certificate of Analysis

Number: 1030-25070861-002A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

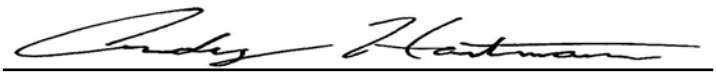
Station Name: MS-LDNR-26
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 08:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	0.1	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070861-003A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: MSD-LDNR-26
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 19:45:06 by EKK

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 08:00
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	7.940	12.638	
Methane	89.586	81.658	
Carbon Dioxide	1.520	3.801	
Ethane	0.771	1.317	0.206
Propane	0.067	0.168	0.018
Iso-butane	0.084	0.277	0.027
n-Butane	0.003	0.010	0.001
Iso-pentane	0.019	0.078	0.007
n-Pentane	NIL	NIL	NIL
Hexanes Plus	0.010	0.053	0.004
	100.000	100.000	0.263

GPM TOTAL C2+	0.263
GPM TOTAL C3+	0.057
GPM TOTAL iC5+	0.011

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6086	3.2176
Calculated Molecular Weight	17.60	93.19
Compressibility Factor	0.9981	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	926	5129
Water Sat. Gas Base BTU	910	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Certificate of Analysis

Number: 1030-25070861-003A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

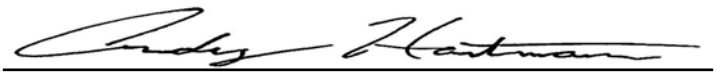
Station Name: MSD-LDNR-26
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 08:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	0.1	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070861-004A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name:	Gas- DUP-01	Report Date:	08/10/2025
Login Date:	07/25/2025	Sampled By:	
Method:	GPA-2261M	Sample Of:	Gas Spot
Instrument:	HGC 16 A + 16B, Rear TCD #16B	Sample Date:	07/22/2025
Analyzed:	07/28/2025 20:08:17 by EKK	Sample Conditions:	
		Received Date:	07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	3.589	5.762		GPM TOTAL C2+	0.321
Methane	92.886	85.400		GPM TOTAL C3+	0.153
Carbon Dioxide	2.434	6.139		GPM TOTAL iC5+	0.061
Ethane	0.627	1.080	0.168		
Propane	0.184	0.465	0.051		
Iso-butane	0.071	0.237	0.023		
n-Butane	0.058	0.193	0.018		
Iso-pentane	0.038	0.157	0.014		
n-Pentane	0.030	0.124	0.011		
Hexanes Plus	0.083	0.443	0.036		
	100.000	100.000	0.321		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6035	3.2176
Calculated Molecular Weight	17.45	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	967	5129
Water Sat. Gas Base BTU	950	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-004A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: Gas- DUP-01
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	186.6	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Sample diluted 2 to 1 prior to analysis. Final results corrected for dilution.
- Results calculated using molecular weight 17.45 g/mol.

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-005A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-03
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 20:31:35 by EKK

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	3.627	5.823		GPM TOTAL C2+	0.317
Methane	92.860	85.375		GPM TOTAL C3+	0.151
Carbon Dioxide	2.436	6.144		GPM TOTAL iC5+	0.060
Ethane	0.622	1.072	0.166		
Propane	0.182	0.460	0.050		
Iso-butane	0.069	0.230	0.023		
n-Butane	0.057	0.190	0.018		
Iso-pentane	0.037	0.153	0.014		
n-Pentane	0.029	0.120	0.011		
Hexanes Plus	0.081	0.433	0.035		
	100.000	100.000	0.317		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6035	3.2176
Calculated Molecular Weight	17.45	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	966	5129
Water Sat. Gas Base BTU	950	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-005A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-03
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	180.1	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Sample diluted 2 to 1 prior to analysis. Final results corrected for dilution.
- Results calculated using molecular weight 17.45 g/mol.

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

No Results Available

Number: 1030-25070861-006A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name:	LDNR-06	Report Date:	08/10/2025
Received Date:	07/25/2025	Sampled By:	
Login Date:	07/25/2025	Sample Of:	Gas Spot
Method:	GPA-2261M	Sample Date:	07/22/2025 12:35
		Sample Conditions:	

The above-mentioned sample could not be analyzed properly by our laboratory personnel due to:

Insufficient sample for analysis. Sample bag is empty

We regret that an analysis could not be performed and recommend that another sample be collected, if appropriate. Please contact us if we can be of any assistance in this matter.

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Certificate of Analysis

Number: 1030-25070861-006A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-06
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 12:35

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	NA				

Comments:
AS-D-5504-H2S: NA = No Results Available: Insufficient sample for analysis. Sample bag is empty.

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-007A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: Gas- DUP-02
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 20:56:38 by EKK

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	3.302	5.251		GPM TOTAL C2+	0.407
Methane	92.337	84.093		GPM TOTAL C3+	0.174
Carbon Dioxide	2.952	7.375		GPM TOTAL iC5+	0.059
Ethane	0.870	1.485	0.233		
Propane	0.243	0.608	0.067		
Iso-butane	0.078	0.257	0.026		
n-Butane	0.071	0.234	0.022		
Iso-pentane	0.037	0.152	0.014		
n-Pentane	0.031	0.127	0.011		
Hexanes Plus	0.079	0.418	0.034		
	100.000	100.000	0.407		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6093	3.2176
Calculated Molecular Weight	17.62	93.19
Compressibility Factor	0.9979	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	968	5129
Water Sat. Gas Base BTU	951	5040

Comments: Reran Sample Confirmed GC Analysis

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-007A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: Gas- DUP-02
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	148.4	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.62 g/mol.

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070861-008A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-24
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 21:50:00 by EKK

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 13:00
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	2.086	3.342	
Methane	93.484	85.761	
Carbon Dioxide	3.001	7.553	
Ethane	0.885	1.522	0.237
Propane	0.247	0.623	0.068
Iso-butane	0.079	0.263	0.026
n-Butane	0.073	0.243	0.023
Iso-pentane	0.037	0.153	0.014
n-Pentane	0.030	0.124	0.011
Hexanes Plus	0.078	0.416	0.034
	100.000	100.000	0.413

GPM TOTAL C2+	0.413
GPM TOTAL C3+	0.176
GPM TOTAL iC5+	0.059

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6048	3.2176
Calculated Molecular Weight	17.49	93.19
Compressibility Factor	0.9979	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	980	5129
Water Sat. Gas Base BTU	963	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Certificate of Analysis

Number: 1030-25070861-008A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

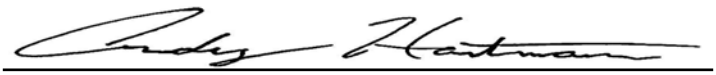
Station Name: LDNR-24
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 13:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	127.7	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.49 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-009A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-04
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 22:14:48 by EKK

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 14:15
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	4.320	6.883		GPM TOTAL C2+	0.490
Methane	91.628	83.609		GPM TOTAL C3+	0.158
Carbon Dioxide	2.310	5.782		GPM TOTAL iC5+	0.043
Ethane	1.241	2.122	0.332		
Propane	0.248	0.622	0.068		
Iso-butane	0.078	0.258	0.026		
n-Butane	0.067	0.221	0.021		
Iso-pentane	0.034	0.140	0.012		
n-Pentane	0.024	0.098	0.009		
Hexanes Plus	0.050	0.265	0.022		
	100.000	100.000	0.490		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6081	3.2176
Calculated Molecular Weight	17.58	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	965	5129
Water Sat. Gas Base BTU	949	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-009A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

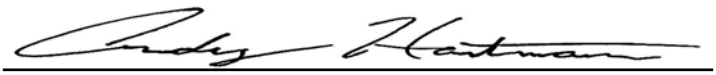
Station Name: LDNR-04
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 14:15

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	1292.6	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.58 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070861-010A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-17
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 06:08:13 by RMR

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 14:40
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	4.283	6.802	
Methane	91.212	82.949	
Carbon Dioxide	2.493	6.220	
Ethane	1.592	2.714	0.426
Propane	0.218	0.545	0.060
Iso-butane	0.073	0.241	0.024
n-Butane	0.051	0.168	0.016
Iso-pentane	0.026	0.106	0.010
n-Pentane	0.016	0.065	0.006
Hexanes Plus	0.036	0.190	0.016
	100.000	100.000	0.558

GPM TOTAL C2+	0.558
GPM TOTAL C3+	0.132
GPM TOTAL iC5+	0.032

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6101	3.2176
Calculated Molecular Weight	17.64	93.19
Compressibility Factor	0.9979	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	964	5129
Water Sat. Gas Base BTU	948	5040

Comments: Reran Sample Confirmed GC Analysis

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070861-010A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

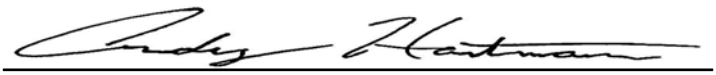
Station Name: LDNR-17
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By:
Sample Of: Gas Spot
Sample Date: 07/22/2025 14:40

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	224.9	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.64 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070861-011A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-05
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 06:33:16 by DKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/23/2025 09:00
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	8.496	13.368	
Methane	88.567	79.806	
Carbon Dioxide	1.524	3.767	
Ethane	0.926	1.564	0.247
Propane	0.255	0.632	0.070
Iso-butane	0.077	0.251	0.025
n-Butane	0.071	0.232	0.022
Iso-pentane	0.030	0.122	0.011
n-Pentane	0.021	0.085	0.008
Hexanes Plus	0.033	0.173	0.014
	100.000	100.000	0.397

GPM TOTAL C2+	0.397
GPM TOTAL C3+	0.150
GPM TOTAL iC5+	0.033

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6156	3.2176
Calculated Molecular Weight	17.80	93.19
Compressibility Factor	0.9981	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	928	5129
Water Sat. Gas Base BTU	912	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Certificate of Analysis

Number: 1030-25070861-011A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

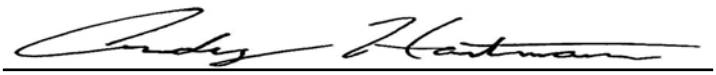
Station Name: LDNR-05
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/23/2025 09:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	281.4	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.8 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

SPL, Inc.

Analysis Request Chain of Custody Record

SPL

SPL Work Order No.:	Acct. Mate Code:	Dept. Code	Page	Pages
			1	1

Report To: (Company Name):	ERM	Project/Station Name:	Project/Station Number:	Project/Station Location:	Requested TAT*
Address:	840 W. Sam Houston Pkwy N. #600	West lake	0777906		
City/State/Zip:	Houston TX	Special Instructions:			
Contact/Email:	Scott.Hines@ERM.com	Indicate Billing Type: (Place "X", where appropriate)	Net 30 day Acct.	Check #	
Phone:	713-834-4361 Fax:		Credit Card	<<<Contact SPL, Inc for CC payment arrangements.	* Surcharges May Apply (See quote for details)

Invoice To: (Company Name):	
Address:	SAME
City/State/Zip:	
Contact/Email:	
Phone:	Fax:
Client PO# or Ref. No.:	
Contract/Proposal # (i.e. SPLQ####)	

† Terms: Cylinders will be rented for $10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost.

Requested Analysis (Place an "X" next to Sample ID below)

Sample ID (used to log/track sample)	Sample Date	Sample Time	Sample Type (Gas/Liq. /Solid)	Duplicate	Composite	Spot	Cylinder Tracking Info† Cylinder #	Date Out	Date In	AS-D-5504 - H2S	GPA-2201 - C6+	Comments
LDNR-26	7/22/25	0800	~~0800~~ G			X				/	/	
MS-LDNR-26		0800	~~0800~~			X				/	/	
MSD-LDNR-26		0800	~~0800~~			X				/	/	
Gas-Dup-01		00:00	~~00:00~~	X		X				/	/	
LDNR-03		1040	~~1040~~			X				/	/	
LDNR-06		1235	~~1235~~			X				/	/	
Gas-Dup-02		00:00	~~00:00~~	X		X				/	/	
LDNR-24		1300	~~1300~~			X				/	/	
LDNR-04		1415	~~1415~~			X				/	/	
LDNR-17	7/22/25	1440	~~1440~~ G			X				/	/	
LDNR-05	7/23/25	0900	G			X				/	/	

Sampled By-Print Name:	Marcus Smith	Received By-Company:			
Signature:	MS				
Relinquished By-Print Name:	Date:	Time:	Received By-Print Name:	Date: 7/25/25	Time: 10:14
Signature:			Signature:		
Relinquished By-Print Name:	Date:	Time:	Received By-Print Name:	Date:	Time:
Signature:			Signature:		
Relinquished By-Print Name:	Date:	Time:	Received By-Print Name:	Date:	Time:
Signature:			Signature:		

Choose SPL Facility>>>	Corporate HQ - Houston, TX	Ship to Address:	8820 Interchange Dr., Houston,TX 77054	Phone:	713.660.0901

Please contact one of our offices above for the form to be e-mailed to you.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070862-001A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: MS-LDNR-05
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 16:43:36 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/23/2025 09:00
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	3.721	6.035	
Methane	93.184	86.550	
Carbon Dioxide	1.612	4.107	
Ethane	0.971	1.690	0.260
Propane	0.268	0.684	0.074
Iso-butane	0.081	0.273	0.026
n-Butane	0.077	0.259	0.024
Iso-pentane	0.032	0.134	0.012
n-Pentane	0.019	0.079	0.007
Hexanes Plus	0.035	0.189	0.015
	100.000	100.000	0.418

GPM TOTAL C2+	0.418
GPM TOTAL C3+	0.158
GPM TOTAL iC5+	0.034

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.5973	3.2176
Calculated Molecular Weight	17.27	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	976	5129
Water Sat. Gas Base BTU	959	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-001A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

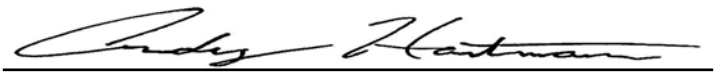
Station Name: MS-LDNR-05
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/23/2025 09:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	257.0	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.27 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-002A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: MSD-LDNR-05
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 17:07:52 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/23/2025 09:00
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	4.473	7.216		GPM TOTAL C2+	0.416
Methane	92.431	85.392		GPM TOTAL C3+	0.159
Carbon Dioxide	1.622	4.111		GPM TOTAL iC5+	0.036
Ethane	0.962	1.666	0.257		
Propane	0.267	0.678	0.074		
Iso-butane	0.080	0.268	0.026		
n-Butane	0.074	0.248	0.023		
Iso-pentane	0.033	0.137	0.012		
n-Pentane	0.022	0.091	0.008		
Hexanes Plus	0.036	0.193	0.016		
	100.000	100.000	0.416		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6005	3.2176
Calculated Molecular Weight	17.36	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	968	5129
Water Sat. Gas Base BTU	952	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-002A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

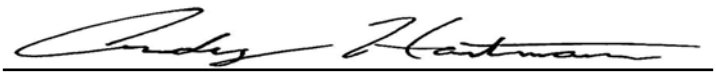
Station Name: MSD-LDNR-05
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/23/2025 09:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	248.4	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.36 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070862-003A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-18
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 17:32:27 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 08:25
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	7.096	11.185		GPM TOTAL C2+	0.380
Methane	89.567	80.848		GPM TOTAL C3+	0.154
Carbon Dioxide	2.009	4.975		GPM TOTAL iC5+	0.047
Ethane	0.846	1.431	0.226		
Propane	0.224	0.556	0.062		
Iso-butane	0.075	0.245	0.025		
n-Butane	0.065	0.213	0.020		
Iso-pentane	0.035	0.142	0.013		
n-Pentane	0.026	0.106	0.009		
Hexanes Plus	0.057	0.299	0.025		
	100.000	100.000	0.380		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6146	3.2176
Calculated Molecular Weight	17.77	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	937	5129
Water Sat. Gas Base BTU	921	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-003A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

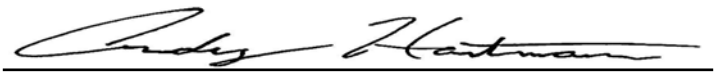
Station Name: LDNR-18
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 08:25

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	376.5	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.77 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070862-004A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-21
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 18:33:54 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 08:40
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	5.115	7.973	
Methane	89.879	80.231	
Carbon Dioxide	3.902	9.555	
Ethane	0.874	1.462	0.234
Propane	0.097	0.238	0.027
Iso-butane	0.058	0.188	0.019
n-Butane	0.002	0.006	0.001
Iso-pentane	0.027	0.108	0.010
n-Pentane	NIL	NIL	NIL
Hexanes Plus	0.046	0.239	0.020
	100.000	100.000	0.311

GPM TOTAL C2+	0.311
GPM TOTAL C3+	0.077
GPM TOTAL iC5+	0.030

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6215	3.2176
Calculated Molecular Weight	17.97	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	933	5129
Water Sat. Gas Base BTU	917	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-004A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

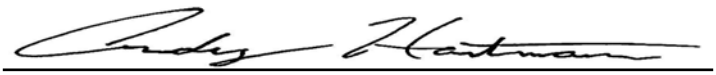
Station Name: LDNR-21
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 08:40

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	402.4	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw
- Results calculated using molecular weight 17.97 g/mol.



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Certificate of Analysis

Number: 1030-25070862-005A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-09
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 19:19:48 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 10:25
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	5.699	9.049		GPM TOTAL C2+	0.232
Methane	90.889	82.643		GPM TOTAL C3+	0.079
Carbon Dioxide	2.604	6.495		GPM TOTAL iC5+	0.033
Ethane	0.572	0.975	0.153		
Propane	0.098	0.245	0.027		
Iso-butane	0.045	0.148	0.015		
n-Butane	0.013	0.043	0.004		
Iso-pentane	0.013	0.053	0.005		
n-Pentane	0.004	0.016	0.001		
Hexanes Plus	0.063	0.333	0.027		
	100.000	100.000	0.232		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6101	3.2176
Calculated Molecular Weight	17.64	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	938	5129
Water Sat. Gas Base BTU	922	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-005A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-09
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 10:25

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	0.6	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070862-006A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name:	LDNR-19	Report Date:	08/10/2025
Login Date:	07/25/2025	Sampled By:	MS
Method:	GPA-2261M	Sample Of:	Gas Spot
Instrument:	HGC 16 A + 16B, Rear TCD #16B	Sample Date:	07/24/2025 10:35
Analyzed:	07/29/2025 20:22:26 by EKK	Sample Conditions:	
		Received Date:	07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	7.228	10.861		GPM TOTAL C2+	0.216
Methane	86.423	74.369		GPM TOTAL C3+	0.058
Carbon Dioxide	5.595	13.208		GPM TOTAL iC5+	0.033
Ethane	0.592	0.955	0.158		
Propane	0.046	0.109	0.013		
Iso-butane	0.038	0.118	0.012		
n-Butane	NIL	NIL	NIL		
Iso-pentane	0.009	0.035	0.003		
n-Pentane	NIL	NIL	NIL		
Hexanes Plus	0.069	0.345	0.030		
	100.000	100.000	0.216		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6447	3.2176
Calculated Molecular Weight	18.64	93.19
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	891	5129
Water Sat. Gas Base BTU	876	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-006A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-19
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 10:35

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	16.9	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070862-007A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-01
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 20:45:19 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 10:50
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	5.994	9.342		GPM TOTAL C2+	0.634
Methane	89.440	79.831		GPM TOTAL C3+	0.270
Carbon Dioxide	2.369	5.801		GPM TOTAL iC5+	0.096
Ethane	1.363	2.280	0.364		
Propane	0.400	0.981	0.110		
Iso-butane	0.098	0.317	0.032		
n-Butane	0.103	0.333	0.032		
Iso-pentane	0.046	0.185	0.017		
n-Pentane	0.033	0.132	0.012		
Hexanes Plus	0.154	0.798	0.067		
	100.000	100.000	0.634		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6216	3.2176
Calculated Molecular Weight	17.97	93.19
Compressibility Factor	0.9979	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	957	5129
Water Sat. Gas Base BTU	941	5040

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-007A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-01
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 10:50

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	28.4	ppmw		MG	08/06/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070862-008A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-10
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 21:08:50 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:20
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	99.378	99.537	
Methane	0.516	0.296	
Carbon Dioxide	0.106	0.167	
Ethane	NIL	NIL	NIL
Propane	NIL	NIL	NIL
Iso-butane	NIL	NIL	NIL
n-Butane	NIL	NIL	NIL
Iso-pentane	NIL	NIL	NIL
n-Pentane	NIL	NIL	NIL
Hexanes Plus	NIL	NIL	NIL
	100.000	100.000	0.000

GPM TOTAL C2+	0.000
GPM TOTAL C3+	0.000
GPM TOTAL iC5+	0.000

Calculated Physical Properties	**Total**
Relative Density Real Gas	0.9656
Calculated Molecular Weight	27.97
Compressibility Factor	0.9997

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	5
Water Sat. Gas Base BTU	5

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-008A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-10
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:20

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	0.1	ppmw		MG	08/07/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-009A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-27
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 21:32:15 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:30
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	99.906	99.852	
Methane	NIL	NIL	
Carbon Dioxide	0.094	0.148	
Ethane	NIL	NIL	NIL
Propane	NIL	NIL	NIL
Iso-butane	NIL	NIL	NIL
n-Butane	NIL	NIL	NIL
Iso-pentane	NIL	NIL	NIL
n-Pentane	NIL	NIL	NIL
Hexanes Plus	NIL	NIL	NIL
	100.000	100.000	0.000

GPM TOTAL C2+	0.000
GPM TOTAL C3+	0.000
GPM TOTAL iC5+	0.000

Calculated Physical Properties	**Total**
Relative Density Real Gas	0.9676
Calculated Molecular Weight	28.03
Compressibility Factor	0.9997

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	NIL
Water Sat. Gas Base BTU	NIL

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-009A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

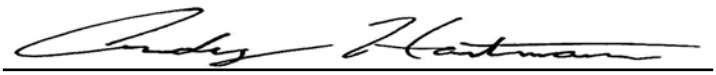
Station Name: LDNR-27
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:30

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	<0.1	ppmw		MG	08/07/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-010A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: LDNR-28
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 21:55:10 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:10
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	99.825	99.725	
Methane	NIL	NIL	
Carbon Dioxide	0.175	0.275	
Ethane	NIL	NIL	NIL
Propane	NIL	NIL	NIL
Iso-butane	NIL	NIL	NIL
n-Butane	NIL	NIL	NIL
Iso-pentane	NIL	NIL	NIL
n-Pentane	NIL	NIL	NIL
Hexanes Plus	NIL	NIL	NIL
	100.000	100.000	0.000

GPM TOTAL C2+	0.000
GPM TOTAL C3+	0.000
GPM TOTAL iC5+	0.000

Calculated Physical Properties	**Total**
Relative Density Real Gas	0.9681
Calculated Molecular Weight	28.04
Compressibility Factor	0.9997

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	NIL
Water Sat. Gas Base BTU	NIL

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-010A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

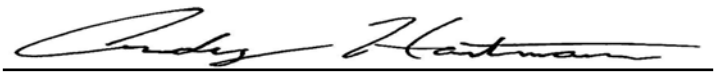
Station Name: LDNR-28
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:10

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	<0.1	ppmw		MG	08/07/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Certificate of Analysis

Number: 1030-25070862-011A

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: PPG-07A-BS
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/29/2025 22:18:18 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 12:55
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	99.331	99.551	
Methane	0.604	0.347	
Carbon Dioxide	0.065	0.102	
Ethane	NIL	NIL	NIL
Propane	NIL	NIL	NIL
Iso-butane	NIL	NIL	NIL
n-Butane	NIL	NIL	NIL
Iso-pentane	NIL	NIL	NIL
n-Pentane	NIL	NIL	NIL
Hexanes Plus	NIL	NIL	NIL
	100.000	100.000	0.000

GPM TOTAL C2+	0.000
GPM TOTAL C3+	0.000
GPM TOTAL iC5+	0.000

Calculated Physical Properties	Total
Relative Density Real Gas	0.9650
Calculated Molecular Weight	27.95
Compressibility Factor	0.9997

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	6
Water Sat. Gas Base BTU	6

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070862-011A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: PPG-07A-BS
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 12:55

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	0.4	ppmw		MG	08/07/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

SPL, Inc.

Analysis Request Chain of Custody Record

SPL

SPL Work Order No.:	Acct. Mate Code:	Dept. Code	Page	Pages
			1	1

Report To: (Company Name): ERM
Address: 840 W. Sam Houston PKWY N. #600
City/State/Zip: Houston TX
Contact/Email: Scott.Hines@ERM.com
Phone: 713-834-4361 Fax:

Project/Station Name: Westlake 0777906
Special Instructions:

Requested TAT*: 10 Business Day

Indicate Billing Type: (Place "X", where appropriate) Net 30 day Acct. [ ] Check # Credit Card [ ] <<<Contact SPL, Inc for CC payment arrangements.

* Surcharges May Apply (See quote for details)

Invoice To: (Company Name): ERM
Address: Same
City/State/Zip:
Contact/Email:
Phone: Fax:
Client PO# or Ref. No.:
Contract/Proposal #: (i.e. SPLQ####)

† Terms: Cylinders will be rented for $10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost.

Requested Analysis (Place an "X" next to Sample ID below)

Sample ID (used to log/track sample)	Sample Date	Sample Time	Sample Type (Gas/Liq./Solid)	Duplicate	Composite	Spot	Cylinder Tracking Info† Cylinder #	Date Out	Date In	AS-D-5504 - H2S	GPA-2201 - C6+	Comments
MS-LDNR-05	7/23/25	0900	G			/				/	/	
MSD-LDNR-05	7/23/25	0900	G			/				/	/	
LDNR-18	7/24/25	0825				/				/	/	
LDNR-21		0840				/				/	/	
LDNR-09		1025				/				/	/	
LDNR-19		1035				/				/	/	
LDNR-01		1050				/				/	/	
LDNR-10		1320				/				/	/	
LDNR-27		1330				/				/	/	
LDNR-28		1310				/				/	/	
RPG-7A-BS	7/24/25	1255	G			/				/	/	

Sampled By-Print Name: Marcus Smith
Signature: MS

Received By-Company:

Relinquished By-Print Name: / Signature:	Date:	Time:	Received By-Print Name: / Signature:	Date: 7/25/25	Time: 10:14
Relinquished By-Print Name: / Signature:	Date:	Time:	Received By-Print Name: / Signature:	Date:	Time:
Relinquished By-Print Name: / Signature:	Date:	Time:	Received By-Print Name: / Signature:	Date:	Time:

Note - As a convenience to our clients, this form is available in an electronic format. Please contact one of our offices above for the form to be e-mailed to you.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070864-001A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

Station Name: BKRD-ATM
Login Date: 07/25/2025
Method: GPA-2261M
Instrument: HGC 16 A + 16B, Rear TCD #16B
Analyzed: 07/28/2025 18:06:11 by EKK

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:40
Sample Conditions:
Received Date: 07/25/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	99.925	99.882		GPM TOTAL C2+	0.000
Methane	NIL	NIL		GPM TOTAL C3+	0.000
Carbon Dioxide	0.075	0.118		GPM TOTAL iC5+	0.000
Ethane	NIL	NIL	NIL		
Propane	NIL	NIL	NIL		
Iso-butane	NIL	NIL	NIL		
n-Butane	NIL	NIL	NIL		
Iso-pentane	NIL	NIL	NIL		
n-Pentane	NIL	NIL	NIL		
Hexanes Plus	NIL	NIL	NIL		
	100.000	100.000	0.000		

Calculated Physical Properties	Total
Relative Density Real Gas	0.9675
Calculated Molecular Weight	28.03
Compressibility Factor	0.9997

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	NIL
Water Sat. Gas Base BTU	NIL

Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

Certificate of Analysis

Number: 1030-25070864-001A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Scott Himes
ERM
840 W. Sam Houston Parkway North
Houston, TX 77024-4613

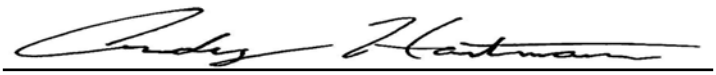
Station Name: BKRD-ATM
Sample Conditions:
Received Date: 07/25/2025
Login Date: 07/25/2025

Report Date: 08/10/2025
Sampled By: MS
Sample Of: Gas Spot
Sample Date: 07/24/2025 13:40

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-5504	<0.1	ppmw		MG	08/01/2025

Comments:
AS-D-5504-H2S: Detection limit = 0.1 ppmw



Andy Hartman, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Powered By SURECHEM

SPL, Inc.

Analysis Request Chain of Custody Record

SPL

SPL Work Order No.:		Acct. Mate Code:		Dept. Code	Page 1 / Pages 1

Report To: (Company Name):	ERM	Project/Station Name:	West lake	0777906
Address:	840 W. Sam Houston PKWY N. #600	Special Instructions:		
City/State/Zip:	Houston TX			
Contact/Email:	scott.hines@ERM.com	Indicate Billing Type: (Place "X", where appropriate)	Net 30 day Acct.	Check #
Phone:	713-834-4361 Fax:		Credit Card	<<<Contact SPL, Inc for CC payment arrangements.
Invoice To: (Company Name):	Same			
Address:				
City/State/Zip:				
Contact/Email:				
Phone:	Fax:			
Client PO# or Ref. No.:				
Contract/Proposal #: (i.e. SPLQ####)				

Requested TAT*: 10 Business Day

* Surcharges May Apply (See quote for details)

† Terms: Cylinders will be rented for $10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost.

Requested Analysis (Place an "X" next to Sample ID below)

Sample ID (used to log/track sample)	Sample Date	Sample Time	Sample Type (Gas/Liq./Solid)	Duplicate	Composite	Spot	Cylinder Tracking Info† Cylinder #	Date Out	Date In	ASD-5504-H_2S	TO-PA-2201-C6+	Comments
BKGRD-ATM	7/24/25	1340	G			✓				✓	✓	

Sampled By-Print Name:	Marcus Smith		Received By-Company:			
Signature:	MS					
Relinquished By-Print Name:		Date:	Time:	Received By-Print Name:	Date: 7/25/25	Time: 10:14
Signature:				Signature:		
Relinquished By-Print Name:		Date:	Time:	Received By-Print Name:	Date:	Time:
Signature:				Signature:		
Relinquished By-Print Name:		Date:	Time:	Received By-Print Name:	Date:	Time:
Signature:				Signature:		

Note - As a convenience to our clients, this form is available in an electronic format. Please contact one of our offices above for the form to be e-mailed to you.

Powered By SURECHEM

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 30, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25071234**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 38 sample(s) on Jul 23, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25071234

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25071234-01	MW-1-200	Water		21-Jul-2025 13:50	23-Jul-2025 12:30	☐
HS25071234-02	MW-1-500	Water		21-Jul-2025 16:15	23-Jul-2025 12:30	☐
HS25071234-03	FB-072125	Water		21-Jul-2025 16:50	23-Jul-2025 12:30	☐
HS25071234-04	MW-1-700	Water		22-Jul-2025 09:00	23-Jul-2025 12:30	☐
HS25071234-05	MW-2-200	Water		22-Jul-2025 10:50	23-Jul-2025 12:30	☐
HS25071234-06	MW-2-700	Water		22-Jul-2025 13:00	23-Jul-2025 12:30	☐
HS25071234-07	019-995	Water		22-Jul-2025 16:05	23-Jul-2025 12:30	☐
HS25071234-08	FB-072225	Water		22-Jul-2025 16:15	23-Jul-2025 12:30	☐
HS25071234-09	019-582	Water		22-Jul-2025 16:40	23-Jul-2025 12:30	☐
HS25071234-10	LDNR-1B (Field Filtered)	Water		22-Jul-2025 15:40	23-Jul-2025 12:30	☐
HS25071234-11	SL-05 BOTT	Water		21-Jul-2025 12:35	23-Jul-2025 12:30	☐
HS25071234-12	SL-05 TOP	Water		21-Jul-2025 12:55	23-Jul-2025 12:30	☐
HS25071234-13	SL-04 BOTT	Water		21-Jul-2025 13:20	23-Jul-2025 12:30	☐
HS25071234-14	SL-04 TOP	Water		21-Jul-2025 13:35	23-Jul-2025 12:30	☐
HS25071234-15	SL-03 BOTT	Water		21-Jul-2025 15:25	23-Jul-2025 12:30	☐
HS25071234-16	SL-03 TOP	Water		21-Jul-2025 15:35	23-Jul-2025 12:30	☐
HS25071234-17	SL-02 BOTT	Water		21-Jul-2025 16:00	23-Jul-2025 12:30	☐
HS25071234-18	SL-02 TOP	Water		21-Jul-2025 16:15	23-Jul-2025 12:30	☐
HS25071234-19	SL-01 BOTT	Water		21-Jul-2025 16:30	23-Jul-2025 12:30	☐
HS25071234-20	SL-01 TOP	Water		21-Jul-2025 16:45	23-Jul-2025 12:30	☐
HS25071234-21	LDNR-26	Water		22-Jul-2025 08:00	23-Jul-2025 12:30	☐
HS25071234-22	SW-DUP-2	Water		22-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-23	LDNR-03 (FIELD FILTER)	Water		22-Jul-2025 10:40	23-Jul-2025 12:30	☐
HS25071234-24	LDNR-06	Water		22-Jul-2025 12:35	23-Jul-2025 12:30	☐
HS25071234-25	LDNR-24	Water		22-Jul-2025 13:00	23-Jul-2025 12:30	☐
HS25071234-26	LDNR-04	Water		22-Jul-2025 14:15	23-Jul-2025 12:30	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25071234

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25071234-27	LDNR-17	Water		22-Jul-2025 14:40	23-Jul-2025 12:30	☐
HS25071234-28	LDNR 14 (FIELD FILTER)	Water		22-Jul-2025 15:10	23-Jul-2025 12:30	☐
HS25071234-29	CG-061125-269	Water	CG-061125-269	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-30	CG-061125-265	Water	CG-061125-265	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-31	CG-061125-263	Water	CG-061125-263	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-32	CG-061125-256	Water	CG-061125-256	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-33	CG-061125-195	Water	CG-061125-195	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-34	CG-061125-268	Water	CG-061125-268	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-35	CG-061125-258	Water	CG-061125-258	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-36	CG-061125-270	Water	CG-061125-270	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-37	CG-061125-267	Water	CG-061125-267	21-Jul-2025 00:00	23-Jul-2025 12:30	☐
HS25071234-38	CG-061125-271	Water	CG-061125-271	21-Jul-2025 00:00	23-Jul-2025 12:30	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071234

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

• Log In Notes:

Received 2 sets of Trip Blank not listed on Chain of Custody, logged in but placed on hold CG-061125-267 and CG-061125-271. Did not receive Trip Blank CG-061125-287.

GC Semivolatiles by Method MA EPH

Batch ID: 230873,230946

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R518415,R518421,R518490,R518492

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R518465

Sample ID: LCS-250726

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Batch ID: R518364

Sample ID: LCS-250724

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Batch ID: R518348

Sample ID: LDNR-26(HS25071234-21MS)

• MS/MSD failed QC limit due to matrix interference

Batch ID: R518531

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 230997,231032,231033,231046

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071234

Metals by Method SW6020A

Batch ID: 230984

Sample ID: HS25071285-10MS

- MS and MSD are for an unrelated sample

Sample ID: HS25071285-10PDS

- PDS is for an unrelated sample

Batch ID: 231016

Sample ID: LDNR 14 (FIELD FILTER) (HS25071234-28MS)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Sodium, Strontium.

Sample ID: LDNR 14 (FIELD FILTER) (HS25071234-28PDS)

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Calcium, Manganese, Sodium, Strontium.

Batch ID: 230993

Sample ID: LDNR-26 (HS25071234-21MS)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Barium.

WetChemistry by Method E376.1

Batch ID: R518367,R518546,R518589

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R518451,R518452

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R518434,R518436

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: R518366,R518521,R518588

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R518277,R518279

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071234

WetChemistry by Method SM4500H+ B

Batch ID: R518270,R518271

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 21-Jul-2025 13:50

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 13:51
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 13:51
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 13:51
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 13:51
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 13:51
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 13:51
Surr: 1,2-Dichloroethane-d4	*98.4*			*70-126*	*%REC*	*1*	*26-Jul-2025 13:51*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 13:51*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*26-Jul-2025 13:51*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*26-Jul-2025 13:51*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 18:12
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 18:12
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 18:12
Surr: 2,5-Dibromotoluene (Aliphatic)	*106*			*70-130*	*%REC*	*1*	*24-Jul-2025 18:12*
Surr: 2,5-Dibromotoluene (Aromatic)	*100*			*70-130*	*%REC*	*1*	*24-Jul-2025 18:12*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 20:35
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 20:35
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 20:35
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 20:35
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 20:35
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	25-Jul-2025 20:35
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 20:35
Surr: 1-Chlorooctadecane	*64.6*			*40-140*	*%REC*	*1*	*25-Jul-2025 20:35*
Surr: 2-Bromonaphthalene	*82.1*			*40-140*	*%REC*	*1*	*25-Jul-2025 20:35*
Surr: 2-Fluorobiphenyl	*78.4*			*40-140*	*%REC*	*1*	*25-Jul-2025 20:35*
Surr: o-Terphenyl	*59.3*			*40-140*	*%REC*	*1*	*25-Jul-2025 20:35*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 21-Jul-2025 13:50

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00902**		**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 16:40
Barium	**0.290**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 16:40
Calcium	**21.9**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 16:40
Chromium	**0.00114**	J	**0.000400**	**0.00400**	**mg/L**	1	28-Jul-2025 16:40
Iron	**0.264**		**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 16:40
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:40
Magnesium	**10.7**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 16:40
Manganese	**0.0607**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 16:40
Nickel	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:40
Potassium	**2.32**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 16:40
Sodium	**107**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 16:40
Strontium	**0.300**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 16:40
Vanadium	U		0.000600	0.00500	mg/L	1	28-Jul-2025 16:40
Zinc	**0.00204**	J	**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 16:40
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:36
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**8.16**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**368**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**252**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:13
Alkalinity, Carbonate (As CaCO3)	**13.8**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:13
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**7.68**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.45**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:13
Temp Deg C @pH	**20.2**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:13
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 08:25
Chloride	**36.0**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 08:25
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 08:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 21-Jul-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 14:12
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 14:12
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 14:12
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 14:12
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 14:12
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 14:12
Surr: 1,2-Dichloroethane-d4	*99.7*			*70-126*	*%REC*	*1*	*26-Jul-2025 14:12*
Surr: 4-Bromofluorobenzene	*100*			*77-113*	*%REC*	*1*	*26-Jul-2025 14:12*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Jul-2025 14:12*
Surr: Toluene-d8	*99.1*			*82-127*	*%REC*	*1*	*26-Jul-2025 14:12*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 18:51
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 18:51
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 18:51
Surr: 2,5-Dibromotoluene (Aliphatic)	*96.1*			*70-130*	*%REC*	*1*	*24-Jul-2025 18:51*
Surr: 2,5-Dibromotoluene (Aromatic)	*91.0*			*70-130*	*%REC*	*1*	*24-Jul-2025 18:51*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:04
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:04
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:04
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:04
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:04
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:04
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:04
Surr: 1-Chlorooctadecane	*65.7*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:04*
Surr: 2-Bromonaphthalene	*74.4*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:04*
Surr: 2-Fluorobiphenyl	*85.0*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:04*
Surr: o-Terphenyl	*67.9*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:04*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 21-Jul-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	28-Jul-2025 16:42
Barium	**0.209**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 16:42
Calcium	**9.00**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 16:42
Chromium	U		0.000400	0.00400	mg/L	1	28-Jul-2025 16:42
Iron	**0.894**		**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 16:42
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:42
Magnesium	**5.08**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 16:42
Manganese	**0.0327**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 16:42
Nickel	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:42
Potassium	**8.63**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 16:42
Sodium	**51.0**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 16:42
Strontium	**0.237**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 16:42
Vanadium	U		0.000600	0.00500	mg/L	1	28-Jul-2025 16:42
Zinc	**0.0123**		**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 16:42
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:15
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**16.7**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**500**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**128**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:19
Alkalinity, Carbonate (As CaCO3)	**9.80**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:19
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**15.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.62**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:19
Temp Deg C @pH	**20.2**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:19
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 08:31
Chloride	**21.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 08:31
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 08:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072125
Collection Date: 21-Jul-2025 16:50

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 10:44
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 10:44
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 10:44
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 10:44
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 10:44
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 10:44
Surr: 1,2-Dichloroethane-d4	*98.2*			*70-126*	*%REC*	*1*	*26-Jul-2025 10:44*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*26-Jul-2025 10:44*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Jul-2025 10:44*
Surr: Toluene-d8	*99.6*			*82-127*	*%REC*	*1*	*26-Jul-2025 10:44*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 16:54
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 16:54
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 16:54
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.8*			*70-130*	*%REC*	*1*	*24-Jul-2025 16:54*
Surr: 2,5-Dibromotoluene (Aromatic)	*90.8*			*70-130*	*%REC*	*1*	*24-Jul-2025 16:54*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:32
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:32
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:32
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:32
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:32
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:32
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 21:32
Surr: 1-Chlorooctadecane	*62.2*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:32*
Surr: 2-Bromonaphthalene	*80.7*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:32*
Surr: 2-Fluorobiphenyl	*79.1*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:32*
Surr: o-Terphenyl	*70.9*			*40-140*	*%REC*	*1*	*25-Jul-2025 21:32*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072125
Collection Date: 21-Jul-2025 16:50

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	28-Jul-2025 16:44
Barium	U		0.00190	0.00400	mg/L	1	28-Jul-2025 16:44
Calcium	U		0.0340	0.500	mg/L	1	28-Jul-2025 16:44
Chromium	**0.000416**	J	**0.000400**	**0.00400**	**mg/L**	1	28-Jul-2025 16:44
Iron	U		0.0120	0.200	mg/L	1	28-Jul-2025 16:44
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:44
Magnesium	**0.0159**	J	**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 16:44
Manganese	U		0.000700	0.00500	mg/L	1	28-Jul-2025 16:44
Nickel	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:44
Potassium	**0.0212**	J	**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 16:44
Sodium	**0.202**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 16:44
Strontium	U		0.000200	0.00500	mg/L	1	28-Jul-2025 16:44
Vanadium	U		0.000600	0.00500	mg/L	1	28-Jul-2025 16:44
Zinc	**0.00232**	J	**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 16:44
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:17
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.722**	J	**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 21:23
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 21:23
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**6.18**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:23
Temp Deg C @pH	**20.4**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:23
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 08:37
Chloride	**0.218**	J	**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 08:37
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 08:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 22-Jul-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 14:33
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 14:33
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 14:33
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 14:33
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 14:33
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 14:33
Surr: 1,2-Dichloroethane-d4	*100*			*70-126*	*%REC*	*1*	*26-Jul-2025 14:33*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 14:33*
Surr: Dibromofluoromethane	*99.4*			*77-123*	*%REC*	*1*	*26-Jul-2025 14:33*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*26-Jul-2025 14:33*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 19:29
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 19:29
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 19:29
Surr: 2,5-Dibromotoluene (Aliphatic)	*91.8*			*70-130*	*%REC*	*1*	*24-Jul-2025 19:29*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.1*			*70-130*	*%REC*	*1*	*24-Jul-2025 19:29*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:01
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:01
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:01
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:01
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:01
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:01
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:01
Surr: 1-Chlorooctadecane	*67.8*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:01*
Surr: 2-Bromonaphthalene	*80.6*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:01*
Surr: 2-Fluorobiphenyl	*78.8*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:01*
Surr: o-Terphenyl	*66.7*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:01*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 22-Jul-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00114**	J	**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 16:46
Barium	**0.0549**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 16:46
Calcium	**2.23**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 16:46
Chromium	**0.000591**	J	**0.000400**	**0.00400**	**mg/L**	1	28-Jul-2025 16:46
Iron	**0.905**		**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 16:46
Lead	**0.00213**		**0.000600**	**0.00200**	**mg/L**	1	28-Jul-2025 16:46
Magnesium	**0.346**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 16:46
Manganese	**0.00896**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 16:46
Nickel	**0.000832**	J	**0.000600**	**0.00200**	**mg/L**	1	28-Jul-2025 16:46
Potassium	**2.35**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 16:46
Sodium	**177**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 16:46
Strontium	**0.0604**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 16:46
Vanadium	U		0.000600	0.00500	mg/L	1	28-Jul-2025 16:46
Zinc	**0.00560**		**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 16:46
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:19
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**16.7**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**508**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**203**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:28
Alkalinity, Carbonate (As CaCO3)	**85.4**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:28
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**15.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**9.54**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:28
Temp Deg C @pH	**20.4**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:28
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 08:43
Chloride	**99.8**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 08:43
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 08:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 22-Jul-2025 10:50

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 14:54
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 14:54
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 14:54
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 14:54
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 14:54
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 14:54
Surr: 1,2-Dichloroethane-d4	*98.5*			*70-126*	*%REC*	*1*	*26-Jul-2025 14:54*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*26-Jul-2025 14:54*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*26-Jul-2025 14:54*
Surr: Toluene-d8	*99.7*			*82-127*	*%REC*	*1*	*26-Jul-2025 14:54*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 20:08
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 20:08
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 20:08
Surr: 2,5-Dibromotoluene (Aliphatic)	*97.4*			*70-130*	*%REC*	*1*	*24-Jul-2025 20:08*
Surr: 2,5-Dibromotoluene (Aromatic)	*92.4*			*70-130*	*%REC*	*1*	*24-Jul-2025 20:08*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:30
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:30
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:30
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:30
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:30
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:30
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 22:30
Surr: 1-Chlorooctadecane	*61.3*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:30*
Surr: 2-Bromonaphthalene	*74.6*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:30*
Surr: 2-Fluorobiphenyl	*78.2*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:30*
Surr: o-Terphenyl	*59.6*			*40-140*	*%REC*	*1*	*25-Jul-2025 22:30*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 22-Jul-2025 10:50

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.000852**	J	**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 16:48
Barium	**0.107**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 16:48
Calcium	**8.68**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 16:48
Chromium	U		0.000400	0.00400	mg/L	1	28-Jul-2025 16:48
Iron	**0.796**		**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 16:48
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:48
Magnesium	**2.97**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 16:48
Manganese	**0.0150**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 16:48
Nickel	U		0.000600	0.00200	mg/L	1	28-Jul-2025 16:48
Potassium	**4.27**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 16:48
Sodium	**76.3**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 16:48
Strontium	**0.251**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 16:48
Vanadium	U		0.000600	0.00500	mg/L	1	28-Jul-2025 16:48
Zinc	**0.00706**		**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 16:48
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:21
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**3.91**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**222**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**174**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:34
Alkalinity, Carbonate (As CaCO3)	**18.8**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:34
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**3.68**	J	**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.84**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:34
Temp Deg C @pH	**20.5**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 08:49
Chloride	**22.3**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 08:49
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 22-Jul-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 15:14
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 15:14
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 15:14
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 15:14
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 15:14
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 15:14
Surr: 1,2-Dichloroethane-d4	*99.7*			*70-126*	*%REC*	*1*	*26-Jul-2025 15:14*
Surr: 4-Bromofluorobenzene	*99.9*			*77-113*	*%REC*	*1*	*26-Jul-2025 15:14*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*26-Jul-2025 15:14*
Surr: Toluene-d8	*98.0*			*82-127*	*%REC*	*1*	*26-Jul-2025 15:14*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 20:47
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 20:47
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 20:47
Surr: 2,5-Dibromotoluene (Aliphatic)	*99.1*			*70-130*	*%REC*	*1*	*24-Jul-2025 20:47*
Surr: 2,5-Dibromotoluene (Aromatic)	*93.8*			*70-130*	*%REC*	*1*	*24-Jul-2025 20:47*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 23:56
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 23:56
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 23:56
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 23:56
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 23:56
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	25-Jul-2025 23:56
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 23:56
Surr: 1-Chlorooctadecane	*64.2*			*40-140*	*%REC*	*1*	*25-Jul-2025 23:56*
Surr: 2-Bromonaphthalene	*75.2*			*40-140*	*%REC*	*1*	*25-Jul-2025 23:56*
Surr: 2-Fluorobiphenyl	*78.1*			*40-140*	*%REC*	*1*	*25-Jul-2025 23:56*
Surr: o-Terphenyl	*60.8*			*40-140*	*%REC*	*1*	*25-Jul-2025 23:56*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 22-Jul-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.000801**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:00
Barium	**0.00692**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:00
Calcium	**0.854**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:00
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:00
Iron	**0.287**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:00
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:00
Magnesium	**0.0271**	J	**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:00
Manganese	**0.00197**	J	**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:00
Nickel	**0.00121**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 11:00
Potassium	**4.94**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:00
Sodium	**176**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:00
Strontium	**0.0207**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:00
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 11:00
Zinc	**0.00425**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:00
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:22
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**8.16**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**436**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**54.3**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:40
Alkalinity, Carbonate (As CaCO3)	**162**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:40
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**7.68**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**10.4**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:40
Temp Deg C @pH	**21.0**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:40
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**0.166**		**0.0300**	**0.100**	**mg/L**	1	25-Jul-2025 08:55
Chloride	**115**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 09:01
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 08:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 22-Jul-2025 16:05

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 15:35
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 15:35
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 15:35
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 15:35
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 15:35
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 15:35
Surr: 1,2-Dichloroethane-d4	*98.9*			*70-126*	*%REC*	*1*	*26-Jul-2025 15:35*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*26-Jul-2025 15:35*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*26-Jul-2025 15:35*
Surr: Toluene-d8	*97.9*			*82-127*	*%REC*	*1*	*26-Jul-2025 15:35*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 22:43
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 22:43
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 22:43
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*24-Jul-2025 22:43*
Surr: 2,5-Dibromotoluene (Aromatic)	*95.7*			*70-130*	*%REC*	*1*	*24-Jul-2025 22:43*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:25
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:25
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:25
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:25
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:25
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:25
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:25
Surr: 1-Chlorooctadecane	*73.5*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:25*
Surr: 2-Bromonaphthalene	*80.8*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:25*
Surr: 2-Fluorobiphenyl	*78.1*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:25*
Surr: o-Terphenyl	*71.4*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:25*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 22-Jul-2025 16:05

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.000606**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:12
Barium	**0.202**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:12
Calcium	**23.3**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:12
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:12
Iron	**3.37**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:12
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:12
Magnesium	**7.22**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:12
Manganese	**0.338**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:12
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:12
Potassium	**2.41**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:12
Sodium	**23.8**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:12
Strontium	**0.202**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:12
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 11:12
Zinc	U		0.00200	0.00400	mg/L	1	29-Jul-2025 11:12
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:24
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**250**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**116**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:45
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 21:45
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.30**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:45
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:45
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 09:06
Chloride	**23.6**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:06
Sulfate	**3.29**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072225
Collection Date: 22-Jul-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 11:04
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 11:04
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 11:04
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 11:04
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 11:04
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 11:04
Surr: 1,2-Dichloroethane-d4	*98.1*			*70-126*	*%REC*	*1*	*26-Jul-2025 11:04*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 11:04*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Jul-2025 11:04*
Surr: Toluene-d8	*99.7*			*82-127*	*%REC*	*1*	*26-Jul-2025 11:04*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 17:33
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 17:33
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 17:33
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*24-Jul-2025 17:33*
Surr: 2,5-Dibromotoluene (Aromatic)	*95.5*			*70-130*	*%REC*	*1*	*24-Jul-2025 17:33*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:54
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:54
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:54
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:54
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:54
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:54
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 00:54
Surr: 1-Chlorooctadecane	*59.0*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:54*
Surr: 2-Bromonaphthalene	*84.3*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:54*
Surr: 2-Fluorobiphenyl	*80.8*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:54*
Surr: o-Terphenyl	*60.4*			*40-140*	*%REC*	*1*	*26-Jul-2025 00:54*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072225
Collection Date: 22-Jul-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2025 11:14
Barium	U		0.00190	0.00400	mg/L	1	29-Jul-2025 11:14
Calcium	**0.0380**	J	**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:14
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:14
Iron	U		0.0120	0.200	mg/L	1	29-Jul-2025 11:14
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:14
Magnesium	**0.0172**	J	**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:14
Manganese	U		0.000700	0.00500	mg/L	1	29-Jul-2025 11:14
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:14
Potassium	U		0.0180	0.200	mg/L	1	29-Jul-2025 11:14
Sodium	**0.0195**	J	**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:14
Strontium	U		0.000200	0.00500	mg/L	1	29-Jul-2025 11:14
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 11:14
Zinc	**0.00298**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:14
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:26
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**8.16**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 21:49
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 21:49
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**7.68**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**5.47**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:49
Temp Deg C @pH	**21.9**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:49
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 09:36
Chloride	**0.200**	J	**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:36
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 09:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 22-Jul-2025 16:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 15:56
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 15:56
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 15:56
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 15:56
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 15:56
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 15:56
Surr: 1,2-Dichloroethane-d4	*99.5*			*70-126*	*%REC*	*1*	*26-Jul-2025 15:56*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 15:56*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Jul-2025 15:56*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*26-Jul-2025 15:56*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Jul-2025 23:22
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Jul-2025 23:22
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Jul-2025 23:22
Surr: 2,5-Dibromotoluene (Aliphatic)	*104*			*70-130*	*%REC*	*1*	*24-Jul-2025 23:22*
Surr: 2,5-Dibromotoluene (Aromatic)	*98.4*			*70-130*	*%REC*	*1*	*24-Jul-2025 23:22*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 16:55
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 16:55
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 16:55
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 16:55
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 16:55
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 16:55
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 16:55
Surr: 1-Chlorooctadecane	*69.7*			*40-140*	*%REC*	*1*	*28-Jul-2025 16:55*
Surr: 2-Bromonaphthalene	*87.8*			*40-140*	*%REC*	*1*	*28-Jul-2025 16:55*
Surr: 2-Fluorobiphenyl	*89.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 16:55*
Surr: o-Terphenyl	*67.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 16:55*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 22-Jul-2025 16:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.000770**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:16
Barium	**0.199**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:16
Calcium	**22.6**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:16
Chromium	**0.00235**	J	**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 11:16
Iron	**3.33**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:16
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:16
Magnesium	**7.00**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:16
Manganese	**0.359**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:16
Nickel	**0.00170**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 11:16
Potassium	**2.54**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:16
Sodium	**25.0**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:16
Strontium	**0.203**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:16
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 11:16
Zinc	**0.00552**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:16
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:27
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.78**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**212**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**115**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 21:55
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 21:55
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.68**	J	**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.27**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 21:55
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	23-Jul-2025 21:55
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 09:41
Chloride	**26.0**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:41
Sulfate	**3.39**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-1B (Field Filtered)
Collection Date: 22-Jul-2025 15:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 00:30
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 00:30
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 00:30
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 00:30
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 00:30
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 00:30
Surr: 1,2-Dichloroethane-d4	*101*			*70-126*	*%REC*	*1*	*25-Jul-2025 00:30*
Surr: 4-Bromofluorobenzene	*93.6*			*77-113*	*%REC*	*1*	*25-Jul-2025 00:30*
Surr: Dibromofluoromethane	*99.5*			*77-123*	*%REC*	*1*	*25-Jul-2025 00:30*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*25-Jul-2025 00:30*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 00:01
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 00:01
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 00:01
Surr: 2,5-Dibromotoluene (Aliphatic)	*105*			*70-130*	*%REC*	*1*	*25-Jul-2025 00:01*
Surr: 2,5-Dibromotoluene (Aromatic)	*99.6*			*70-130*	*%REC*	*1*	*25-Jul-2025 00:01*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:24
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:24
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:24
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:24
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:24
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:24
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:24
Surr: 1-Chlorooctadecane	*66.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:24*
Surr: 2-Bromonaphthalene	*88.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:24*
Surr: 2-Fluorobiphenyl	*93.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:24*
Surr: o-Terphenyl	*67.8*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-1B (Field Filtered)
Collection Date: 22-Jul-2025 15:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	**Method:SW6020A (dissolved)**				Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00126**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 13:08
Barium	**0.231**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 13:08
Calcium	**63.4**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 13:08
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 13:08
Iron	**0.0800**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 13:08
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 13:08
Magnesium	**13.0**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 13:08
Manganese	**1.09**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 13:08
Nickel	**0.000727**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 13:08
Potassium	**1.65**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 13:08
Sodium	**211**		**0.280**	**4.00**	**mg/L**	20	29-Jul-2025 13:17
Strontium	**0.521**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 13:08
Vanadium	**0.00184**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 13:08
Zinc	**0.00522**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 13:08
DISSOLVED MERCURY BY SW7470A	**Method:SW7470A (dissolved)**				Prep:SW7470A / 28-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	28-Jul-2025 18:08
HYDROGEN SULFIDE BY E376.1	**Method:E376.1**						Analyst: CD
Hydrogen Sulfide	**12.4**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C	**Method:M2540C**						Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**848**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B	**Method:SM2320B**						Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**138**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 22:01
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 22:01
SULFIDE BY SM4500 S2-F	**Method:SM4500 S2-F**						Analyst: CD
Sulfide	**11.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: CD
pH	**7.41**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 22:01
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	23-Jul-2025 22:01
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 09:47
Chloride	**371**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 09:53
Sulfate	**79.8**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-05 BOTT
Collection Date: 21-Jul-2025 12:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 00:53
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 00:53
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 00:53
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 00:53
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 00:53
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 00:53
Surr: 1,2-Dichloroethane-d4	*98.5*			*70-126*	*%REC*	*1*	*25-Jul-2025 00:53*
Surr: 4-Bromofluorobenzene	*98.7*			*77-113*	*%REC*	*1*	*25-Jul-2025 00:53*
Surr: Dibromofluoromethane	*95.1*			*77-123*	*%REC*	*1*	*25-Jul-2025 00:53*
Surr: Toluene-d8	*103*			*82-127*	*%REC*	*1*	*25-Jul-2025 00:53*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 00:40
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 00:40
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 00:40
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*25-Jul-2025 00:40*
Surr: 2,5-Dibromotoluene (Aromatic)	*95.9*			*70-130*	*%REC*	*1*	*25-Jul-2025 00:40*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:53
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:53
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:53
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:53
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:53
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:53
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 17:53
Surr: 1-Chlorooctadecane	*73.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:53*
Surr: 2-Bromonaphthalene	*88.8*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:53*
Surr: 2-Fluorobiphenyl	*87.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:53*
Surr: o-Terphenyl	*75.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 17:53*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-05 BOTT
Collection Date: 21-Jul-2025 12:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00169**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:18
Barium	**0.411**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:18
Calcium	**9.68**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:18
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:18
Iron	**0.0599**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:18
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:18
Magnesium	**1.79**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:18
Manganese	**0.0129**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:18
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:18
Potassium	**1.40**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:18
Sodium	**34.0**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:18
Strontium	**0.141**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:18
Vanadium	**0.00126**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:18
Zinc	**0.00232**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:18
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:33
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**23.0**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**166**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.9**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 22:19
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 22:19
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**21.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.97**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 22:19
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	23-Jul-2025 22:19
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 09:59
Chloride	**33.8**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:59
Sulfate	**18.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 09:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-05 TOP
Collection Date: 21-Jul-2025 12:55

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 01:16
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 01:16
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 01:16
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 01:16
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 01:16
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 01:16
Surr: 1,2-Dichloroethane-d4	*98.1*			*70-126*	*%REC*	*1*	*25-Jul-2025 01:16*
Surr: 4-Bromofluorobenzene	*95.7*			*77-113*	*%REC*	*1*	*25-Jul-2025 01:16*
Surr: Dibromofluoromethane	*95.2*			*77-123*	*%REC*	*1*	*25-Jul-2025 01:16*
Surr: Toluene-d8	*98.8*			*82-127*	*%REC*	*1*	*25-Jul-2025 01:16*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 01:18
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 01:18
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 01:18
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.2*			*70-130*	*%REC*	*1*	*25-Jul-2025 01:18*
Surr: 2,5-Dibromotoluene (Aromatic)	*90.2*			*70-130*	*%REC*	*1*	*25-Jul-2025 01:18*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:22
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:22
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:22
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:22
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:22
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:22
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:22
Surr: 1-Chlorooctadecane	*67.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:22*
Surr: 2-Bromonaphthalene	*79.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:22*
Surr: 2-Fluorobiphenyl	*88.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:22*
Surr: o-Terphenyl	*73.2*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-05 TOP
Collection Date: 21-Jul-2025 12:55

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00160**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:20
Barium	**0.400**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:20
Calcium	**9.32**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:20
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:20
Iron	**0.0434**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:20
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:20
Magnesium	**1.75**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:20
Manganese	**0.0116**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:20
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:20
Potassium	**1.36**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:20
Sodium	**33.0**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:20
Strontium	**0.141**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:20
Vanadium	**0.00135**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:20
Zinc	**0.00308**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:20
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:34
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**28.1**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**148**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**41.1**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 22:24
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 22:24
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**26.5**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.05**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 22:24
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	23-Jul-2025 22:24
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 10:05
Chloride	**33.7**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:05
Sulfate	**18.5**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-04 BOTT
Collection Date: 21-Jul-2025 13:20

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 01:39
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 01:39
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 01:39
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 01:39
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 01:39
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 01:39
Surr: 1,2-Dichloroethane-d4	*92.9*			*70-126*	*%REC*	*1*	*25-Jul-2025 01:39*
Surr: 4-Bromofluorobenzene	*97.6*			*77-113*	*%REC*	*1*	*25-Jul-2025 01:39*
Surr: Dibromofluoromethane	*91.7*			*77-123*	*%REC*	*1*	*25-Jul-2025 01:39*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*1*	*25-Jul-2025 01:39*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 01:57
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 01:57
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 01:57
Surr: 2,5-Dibromotoluene (Aliphatic)	*102*			*70-130*	*%REC*	*1*	*25-Jul-2025 01:57*
Surr: 2,5-Dibromotoluene (Aromatic)	*96.7*			*70-130*	*%REC*	*1*	*25-Jul-2025 01:57*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:51
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:51
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:51
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:51
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:51
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:51
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 18:51
Surr: 1-Chlorooctadecane	*62.8*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:51*
Surr: 2-Bromonaphthalene	*91.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:51*
Surr: 2-Fluorobiphenyl	*89.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:51*
Surr: o-Terphenyl	*68.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 18:51*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-04 BOTT
Collection Date: 21-Jul-2025 13:20

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00165**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:22
Barium	**0.414**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:22
Calcium	**9.62**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:22
Chromium	**0.000590**	J	**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 11:22
Iron	**0.0523**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:22
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:22
Magnesium	**1.79**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:22
Manganese	**0.0124**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:22
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:22
Potassium	**1.41**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:22
Sodium	**33.8**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:22
Strontium	**0.140**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:22
Vanadium	**0.00128**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:22
Zinc	**0.00218**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:22
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:36
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**23.0**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**164**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.2**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 22:29
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 22:29
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**21.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.98**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 22:29
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	23-Jul-2025 22:29
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 10:11
Chloride	**33.7**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:11
Sulfate	**18.5**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-04 TOP
Collection Date: 21-Jul-2025 13:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 02:02
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 02:02
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 02:02
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 02:02
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 02:02
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 02:02
Surr: 1,2-Dichloroethane-d4	*97.0*			*70-126*	*%REC*	*1*	*25-Jul-2025 02:02*
Surr: 4-Bromofluorobenzene	*97.9*			*77-113*	*%REC*	*1*	*25-Jul-2025 02:02*
Surr: Dibromofluoromethane	*94.9*			*77-123*	*%REC*	*1*	*25-Jul-2025 02:02*
Surr: Toluene-d8	*103*			*82-127*	*%REC*	*1*	*25-Jul-2025 02:02*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 02:36
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 02:36
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 02:36
Surr: 2,5-Dibromotoluene (Aliphatic)	*102*			*70-130*	*%REC*	*1*	*25-Jul-2025 02:36*
Surr: 2,5-Dibromotoluene (Aromatic)	*96.0*			*70-130*	*%REC*	*1*	*25-Jul-2025 02:36*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:17
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:17
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:17
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:17
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:17
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:17
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:17
Surr: 1-Chlorooctadecane	*70.7*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:17*
Surr: 2-Bromonaphthalene	*88.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:17*
Surr: 2-Fluorobiphenyl	*86.7*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:17*
Surr: o-Terphenyl	*67.2*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:17*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-04 TOP
Collection Date: 21-Jul-2025 13:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00166**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:24
Barium	**0.395**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:24
Calcium	**9.49**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:24
Chromium	**0.000405**	J	**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 11:24
Iron	**0.0554**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:24
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:24
Magnesium	**1.76**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:24
Manganese	**0.0135**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:24
Nickel	**0.000620**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 11:24
Potassium	**1.39**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:24
Sodium	**33.9**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:24
Strontium	**0.136**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:24
Vanadium	**0.00123**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:24
Zinc	**0.00320**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:24
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:38
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**10.3**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**156**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.7**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 22:34
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 22:34
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**9.68**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.13**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 22:34
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	23-Jul-2025 22:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 10:16
Chloride	**33.7**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:16
Sulfate	**18.5**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-03 BOTT
Collection Date: 21-Jul-2025 15:25

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 02:25
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 02:25
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 02:25
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 02:25
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 02:25
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 02:25
Surr: 1,2-Dichloroethane-d4	*94.8*			*70-126*	*%REC*	*1*	*25-Jul-2025 02:25*
Surr: 4-Bromofluorobenzene	*95.9*			*77-113*	*%REC*	*1*	*25-Jul-2025 02:25*
Surr: Dibromofluoromethane	*94.3*			*77-123*	*%REC*	*1*	*25-Jul-2025 02:25*
Surr: Toluene-d8	*98.7*			*82-127*	*%REC*	*1*	*25-Jul-2025 02:25*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 03:14
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 03:14
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 03:14
Surr: 2,5-Dibromotoluene (Aliphatic)	*104*			*70-130*	*%REC*	*1*	*25-Jul-2025 03:14*
Surr: 2,5-Dibromotoluene (Aromatic)	*98.6*			*70-130*	*%REC*	*1*	*25-Jul-2025 03:14*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:46
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:46
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:46
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:46
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:46
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:46
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 20:46
Surr: 1-Chlorooctadecane	*73.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:46*
Surr: 2-Bromonaphthalene	*87.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:46*
Surr: 2-Fluorobiphenyl	*84.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:46*
Surr: o-Terphenyl	*67.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 20:46*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-03 BOTT
Collection Date: 21-Jul-2025 15:25

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00164**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:26
Barium	**0.405**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:26
Calcium	**9.31**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:26
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:26
Iron	**0.0457**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:26
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:26
Magnesium	**1.72**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:26
Manganese	**0.0119**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:26
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:26
Potassium	**1.36**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:26
Sodium	**32.8**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:26
Strontium	**0.137**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:26
Vanadium	**0.00125**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:26
Zinc	**0.00234**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:26
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:39
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**26.2**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**148**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**36.9**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 22:39
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 22:39
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**24.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.12**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 22:39
Temp Deg C @pH	**22.3**	H	**0**	**0**	**°C**	1	23-Jul-2025 22:39
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 10:22
Chloride	**33.6**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:22
Sulfate	**18.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-03 TOP
Collection Date: 21-Jul-2025 15:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 02:48
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 02:48
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 02:48
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 02:48
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 02:48
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 02:48
Surr: 1,2-Dichloroethane-d4	*94.6*			*70-126*	*%REC*	*1*	*25-Jul-2025 02:48*
Surr: 4-Bromofluorobenzene	*97.8*			*77-113*	*%REC*	*1*	*25-Jul-2025 02:48*
Surr: Dibromofluoromethane	*94.1*			*77-123*	*%REC*	*1*	*25-Jul-2025 02:48*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*1*	*25-Jul-2025 02:48*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 03:53
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 03:53
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 03:53
Surr: 2,5-Dibromotoluene (Aliphatic)	*110*			*70-130*	*%REC*	*1*	*25-Jul-2025 03:53*
Surr: 2,5-Dibromotoluene (Aromatic)	*104*			*70-130*	*%REC*	*1*	*25-Jul-2025 03:53*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:15
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:15
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:15
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:15
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:15
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:15
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:15
Surr: 1-Chlorooctadecane	*64.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:15*
Surr: 2-Bromonaphthalene	*86.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:15*
Surr: 2-Fluorobiphenyl	*85.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:15*
Surr: o-Terphenyl	*62.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:15*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-03 TOP
Collection Date: 21-Jul-2025 15:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00155**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:28
Barium	**0.385**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:28
Calcium	**8.83**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:28
Chromium	**0.00155**	J	**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 11:28
Iron	**0.0537**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:28
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:28
Magnesium	**1.65**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:28
Manganese	**0.0110**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:28
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:28
Potassium	**1.28**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:28
Sodium	**31.3**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:28
Strontium	**0.132**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:28
Vanadium	**0.00120**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:28
Zinc	**0.00264**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:28
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:41
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**160**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**38.2**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 23:21
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 23:21
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.09**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 23:21
Temp Deg C @pH	**22.8**	H	**0**	**0**	**°C**	1	23-Jul-2025 23:21
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 10:28
Chloride	**33.7**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:28
Sulfate	**18.6**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-02 BOTT
Collection Date: 21-Jul-2025 16:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-17
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 03:11
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 03:11
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 03:11
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 03:11
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 03:11
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 03:11
Surr: 1,2-Dichloroethane-d4	*97.6*			*70-126*	*%REC*	*1*	*25-Jul-2025 03:11*
Surr: 4-Bromofluorobenzene	*98.0*			*77-113*	*%REC*	*1*	*25-Jul-2025 03:11*
Surr: Dibromofluoromethane	*92.2*			*77-123*	*%REC*	*1*	*25-Jul-2025 03:11*
Surr: Toluene-d8	*97.7*			*82-127*	*%REC*	*1*	*25-Jul-2025 03:11*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 04:32
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 04:32
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 04:32
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.7*			*70-130*	*%REC*	*1*	*25-Jul-2025 04:32*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.8*			*70-130*	*%REC*	*1*	*25-Jul-2025 04:32*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:43
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:43
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:43
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:43
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:43
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:43
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 21:43
Surr: 1-Chlorooctadecane	*60.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:43*
Surr: 2-Bromonaphthalene	*82.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:43*
Surr: 2-Fluorobiphenyl	*80.7*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:43*
Surr: o-Terphenyl	*62.4*			*40-140*	*%REC*	*1*	*28-Jul-2025 21:43*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-02 BOTT
Collection Date: 21-Jul-2025 16:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-17
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00150**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:43
Barium	**0.407**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:43
Calcium	**9.55**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:43
Chromium	**0.00162**	J	**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 11:43
Iron	**0.0616**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:43
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:43
Magnesium	**1.77**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:43
Manganese	**0.0136**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:43
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:43
Potassium	**1.38**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:43
Sodium	**33.5**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:43
Strontium	**0.141**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:43
Vanadium	**0.00152**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:43
Zinc	**0.00252**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:43
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:43
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.78**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**144**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**38.0**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 23:26
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 23:26
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.68**	J	**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.09**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 23:26
Temp Deg C @pH	**22.5**	H	**0**	**0**	**°C**	1	23-Jul-2025 23:26
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 10:57
Chloride	**33.8**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:57
Sulfate	**18.8**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 10:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-02 TOP
Collection Date: 21-Jul-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 03:34
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 03:34
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 03:34
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 03:34
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 03:34
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 03:34
Surr: 1,2-Dichloroethane-d4	*94.4*			*70-126*	*%REC*	*1*	*25-Jul-2025 03:34*
Surr: 4-Bromofluorobenzene	*96.4*			*77-113*	*%REC*	*1*	*25-Jul-2025 03:34*
Surr: Dibromofluoromethane	*92.2*			*77-123*	*%REC*	*1*	*25-Jul-2025 03:34*
Surr: Toluene-d8	*98.5*			*82-127*	*%REC*	*1*	*25-Jul-2025 03:34*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 06:28
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 06:28
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 06:28
Surr: 2,5-Dibromotoluene (Aliphatic)	*105*			*70-130*	*%REC*	*1*	*25-Jul-2025 06:28*
Surr: 2,5-Dibromotoluene (Aromatic)	*99.6*			*70-130*	*%REC*	*1*	*25-Jul-2025 06:28*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:12
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:12
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:12
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:12
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:12
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:12
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:12
Surr: 1-Chlorooctadecane	*67.8*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:12*
Surr: 2-Bromonaphthalene	*82.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:12*
Surr: 2-Fluorobiphenyl	*84.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:12*
Surr: o-Terphenyl	*64.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-02 TOP
Collection Date: 21-Jul-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00154**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:45
Barium	**0.444**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:45
Calcium	**10.0**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:45
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:45
Iron	**0.0655**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:45
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:45
Magnesium	**1.83**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:45
Manganese	**0.0147**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:45
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:45
Potassium	**1.44**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:45
Sodium	**35.6**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:45
Strontium	**0.148**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:45
Vanadium	**0.00166**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:45
Zinc	**0.00352**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:45
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:44
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**18.8**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**296**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.6**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 23:31
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 23:31
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**17.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.93**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 23:31
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	23-Jul-2025 23:31
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 11:03
Chloride	**33.9**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 11:03
Sulfate	**18.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 11:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-01 BOTT
Collection Date: 21-Jul-2025 16:30

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-19
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 03:57
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 03:57
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 03:57
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 03:57
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 03:57
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 03:57
Surr: 1,2-Dichloroethane-d4	*102*			*70-126*	*%REC*	*1*	*25-Jul-2025 03:57*
Surr: 4-Bromofluorobenzene	*98.5*			*77-113*	*%REC*	*1*	*25-Jul-2025 03:57*
Surr: Dibromofluoromethane	*96.7*			*77-123*	*%REC*	*1*	*25-Jul-2025 03:57*
Surr: Toluene-d8	*103*			*82-127*	*%REC*	*1*	*25-Jul-2025 03:57*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 07:07
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 07:07
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 07:07
Surr: 2,5-Dibromotoluene (Aliphatic)	*94.4*			*70-130*	*%REC*	*1*	*25-Jul-2025 07:07*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.0*			*70-130*	*%REC*	*1*	*25-Jul-2025 07:07*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:41
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:41
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:41
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:41
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:41
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:41
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 22:41
Surr: 1-Chlorooctadecane	*59.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:41*
Surr: 2-Bromonaphthalene	*78.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:41*
Surr: 2-Fluorobiphenyl	*81.8*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:41*
Surr: o-Terphenyl	*60.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 22:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-01 BOTT
Collection Date: 21-Jul-2025 16:30

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-19
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00141**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:47
Barium	**0.408**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:47
Calcium	**8.90**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:47
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:47
Iron	**0.0650**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:47
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:47
Magnesium	**1.66**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:47
Manganese	**0.0141**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:47
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:47
Potassium	**1.29**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:47
Sodium	**31.9**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:47
Strontium	**0.132**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:47
Vanadium	**0.00153**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:47
Zinc	**0.00209**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:47
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:46
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.722**	J	**0.500**	**1.00**	**mg/L**	1	28-Jul-2025 14:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**174**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.7**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 23:36
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 23:36
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	28-Jul-2025 14:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.16**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 23:36
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	23-Jul-2025 23:36
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 11:09
Chloride	**33.9**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 11:09
Sulfate	**18.5**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 11:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-01 TOP
Collection Date: 21-Jul-2025 16:45

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 04:20
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 04:20
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 04:20
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 04:20
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 04:20
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 04:20
Surr: 1,2-Dichloroethane-d4	*97.0*			*70-126*	*%REC*	*1*	*25-Jul-2025 04:20*
Surr: 4-Bromofluorobenzene	*96.0*			*77-113*	*%REC*	*1*	*25-Jul-2025 04:20*
Surr: Dibromofluoromethane	*98.8*			*77-123*	*%REC*	*1*	*25-Jul-2025 04:20*
Surr: Toluene-d8	*99.7*			*82-127*	*%REC*	*1*	*25-Jul-2025 04:20*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 19:52
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 19:52
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 19:52
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.3*			*70-130*	*%REC*	*1*	*25-Jul-2025 19:52*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.8*			*70-130*	*%REC*	*1*	*25-Jul-2025 19:52*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:10
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:10
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:10
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:10
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:10
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:10
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:10
Surr: 1-Chlorooctadecane	*70.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:10*
Surr: 2-Bromonaphthalene	*79.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:10*
Surr: 2-Fluorobiphenyl	*84.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:10*
Surr: o-Terphenyl	*71.7*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:10*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SL-01 TOP
Collection Date: 21-Jul-2025 16:45

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00149**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 11:49
Barium	**0.403**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 11:49
Calcium	**9.25**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 11:49
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 11:49
Iron	**0.0529**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 11:49
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 11:49
Magnesium	**1.73**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 11:49
Manganese	**0.0134**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 11:49
Nickel	**0.000690**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 11:49
Potassium	**1.35**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 11:49
Sodium	**33.2**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 11:49
Strontium	**0.133**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 11:49
Vanadium	**0.00137**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 11:49
Zinc	**0.00319**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 11:49
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:48
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**3.91**		**0.500**	**1.00**	**mg/L**	1	28-Jul-2025 14:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**166**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.1**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 23:41
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 23:41
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**3.68**	J	**0.920**	**5.00**	**mg/L**	1	28-Jul-2025 14:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.15**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 23:41
Temp Deg C @pH	**22.3**	H	**0**	**0**	**°C**	1	23-Jul-2025 23:41
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 11:15
Chloride	**33.9**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 11:15
Sulfate	**18.5**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 11:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-26
Collection Date: 22-Jul-2025 08:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-21
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 23:21
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:21
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 23:21
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 23:21
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:21
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 23:21
Surr: 1,2-Dichloroethane-d4	*98.3*			*70-126*	*%REC*	*1*	*24-Jul-2025 23:21*
Surr: 4-Bromofluorobenzene	*94.4*			*77-113*	*%REC*	*1*	*24-Jul-2025 23:21*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*24-Jul-2025 23:21*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*24-Jul-2025 23:21*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 07:46
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 07:46
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 07:46
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.1*			*70-130*	*%REC*	*1*	*25-Jul-2025 07:46*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.9*			*70-130*	*%REC*	*1*	*25-Jul-2025 07:46*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 15:29
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 15:29
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 15:29
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 15:29
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 15:29
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 15:29
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 15:29
Surr: 1-Chlorooctadecane	*67.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 15:29*
Surr: 2-Bromonaphthalene	*89.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 15:29*
Surr: 2-Fluorobiphenyl	*88.2*			*40-140*	*%REC*	*1*	*28-Jul-2025 15:29*
Surr: o-Terphenyl	*65.2*			*40-140*	*%REC*	*1*	*28-Jul-2025 15:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-26
Collection Date: 22-Jul-2025 08:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-21
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00136**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 10:52
Barium	**0.391**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 10:52
Calcium	**8.75**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 10:52
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 10:52
Iron	**0.0602**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 10:52
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 10:52
Magnesium	**1.61**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 10:52
Manganese	**0.0126**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 10:52
Nickel	**0.00404**		**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 10:52
Potassium	**1.25**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 10:52
Sodium	**31.1**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 10:52
Strontium	**0.132**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 10:52
Vanadium	**0.00142**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 10:52
Zinc	**0.00232**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 10:52
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:57
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**148**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.9**		**1.20**	**5.00**	**mg/L**	1	23-Jul-2025 23:46
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	23-Jul-2025 23:46
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	29-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.94**	H	**0.100**	**1.00**	**pH Units**	1	23-Jul-2025 23:46
Temp Deg C @pH	**22.5**	H	**0**	**0**	**°C**	1	23-Jul-2025 23:46
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 16:07
Chloride	**34.0**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 16:07
Sulfate	**18.5**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 16:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SW-DUP-2
Collection Date: 22-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-22
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 04:43
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 04:43
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 04:43
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 04:43
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 04:43
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 04:43
Surr: 1,2-Dichloroethane-d4	*96.7*			*70-126*	*%REC*	*1*	*25-Jul-2025 04:43*
Surr: 4-Bromofluorobenzene	*95.0*			*77-113*	*%REC*	*1*	*25-Jul-2025 04:43*
Surr: Dibromofluoromethane	*95.0*			*77-123*	*%REC*	*1*	*25-Jul-2025 04:43*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*1*	*25-Jul-2025 04:43*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 20:31
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 20:31
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 20:31
Surr: 2,5-Dibromotoluene (Aliphatic)	*97.1*			*70-130*	*%REC*	*1*	*25-Jul-2025 20:31*
Surr: 2,5-Dibromotoluene (Aromatic)	*91.9*			*70-130*	*%REC*	*1*	*25-Jul-2025 20:31*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:38
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:38
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:38
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:38
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:38
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:38
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 23:38
Surr: 1-Chlorooctadecane	*66.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:38*
Surr: 2-Bromonaphthalene	*89.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:38*
Surr: 2-Fluorobiphenyl	*87.8*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:38*
Surr: o-Terphenyl	*67.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 23:38*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SW-DUP-2
Collection Date: 22-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-22
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00145**	J	**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 17:01
Barium	**0.439**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 17:01
Calcium	**8.76**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 17:01
Chromium	U		0.000400	0.00400	mg/L	1	28-Jul-2025 17:01
Iron	**0.0570**	J	**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 17:01
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 17:01
Magnesium	**1.64**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 17:01
Manganese	**0.0136**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 17:01
Nickel	U		0.000600	0.00200	mg/L	1	28-Jul-2025 17:01
Potassium	**1.29**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 17:01
Sodium	**31.4**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 17:01
Strontium	**0.150**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 17:01
Vanadium	**0.00151**	J	**0.000600**	**0.00500**	**mg/L**	1	28-Jul-2025 17:01
Zinc	**0.00312**	J	**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 17:01
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 15:04
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**166**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**37.4**		**1.20**	**5.00**	**mg/L**	1	24-Jul-2025 00:09
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	24-Jul-2025 00:09
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	29-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.84**	H	**0.100**	**1.00**	**pH Units**	1	24-Jul-2025 00:09
Temp Deg C @pH	**23.1**	H	**0**	**0**	**°C**	1	24-Jul-2025 00:09
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 16:25
Chloride	**34.0**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 16:25
Sulfate	**18.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 16:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-03 (FIELD FILTER)
Collection Date: 22-Jul-2025 10:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-23
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 05:06
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 05:06
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 05:06
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 05:06
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 05:06
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 05:06
Surr: 1,2-Dichloroethane-d4	*97.9*			*70-126*	*%REC*	*1*	*25-Jul-2025 05:06*
Surr: 4-Bromofluorobenzene	*95.3*			*77-113*	*%REC*	*1*	*25-Jul-2025 05:06*
Surr: Dibromofluoromethane	*94.5*			*77-123*	*%REC*	*1*	*25-Jul-2025 05:06*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*25-Jul-2025 05:06*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**0.0372**		**0.00180**	**0.00500**	**mg/L**	1	25-Jul-2025 21:10
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 21:10
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 21:10
Surr: 2,5-Dibromotoluene (Aliphatic)	*108*			*70-130*	*%REC*	*1*	*25-Jul-2025 21:10*
Surr: 2,5-Dibromotoluene (Aromatic)	*102*			*70-130*	*%REC*	*1*	*25-Jul-2025 21:10*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 08:58
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 08:58
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 08:58
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 08:58
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 08:58
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 08:58
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 08:58
Surr: 1-Chlorooctadecane	*62.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 08:58*
Surr: 2-Bromonaphthalene	*87.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 08:58*
Surr: 2-Fluorobiphenyl	*85.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 08:58*
Surr: o-Terphenyl	*61.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 08:58*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-03 (FIELD FILTER)
Collection Date: 22-Jul-2025 10:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-23
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	**Method:SW6020A (dissolved)**				Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00103**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 13:10
Barium	**0.198**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 13:10
Calcium	**73.6**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 13:10
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 13:10
Iron	**0.0827**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 13:10
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 13:10
Magnesium	**12.8**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 13:10
Manganese	**0.935**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 13:10
Nickel	**0.00128**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 13:10
Potassium	**2.73**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 13:10
Sodium	**131**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 13:10
Strontium	**0.522**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 13:10
Vanadium	**0.00201**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 13:10
Zinc	**0.00540**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 13:10
DISSOLVED MERCURY BY SW7470A	**Method:SW7470A (dissolved)**				Prep:SW7470A / 28-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	28-Jul-2025 18:13
HYDROGEN SULFIDE BY E376.1	**Method:E376.1**						Analyst: CD
Hydrogen Sulfide	**7.99**		**0.500**	**1.00**	**mg/L**	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C	**Method:M2540C**						Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**680**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B	**Method:SM2320B**						Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**156**		**1.20**	**5.00**	**mg/L**	1	24-Jul-2025 00:15
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	24-Jul-2025 00:15
SULFIDE BY SM4500 S2-F	**Method:SM4500 S2-F**						Analyst: CD
Sulfide	**7.52**		**0.920**	**5.00**	**mg/L**	1	29-Jul-2025 10:30
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: CD
pH	**7.51**	H	**0.100**	**1.00**	**pH Units**	1	24-Jul-2025 00:15
Temp Deg C @pH	**22.9**	H	**0**	**0**	**°C**	1	24-Jul-2025 00:15
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 16:31
Chloride	**206**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 16:37
Sulfate	**94.3**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 16:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-06
Collection Date: 22-Jul-2025 12:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-24
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 05:29
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 05:29
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 05:29
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 05:29
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 05:29
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 05:29
Surr: 1,2-Dichloroethane-d4	*97.8*			*70-126*	*%REC*	*1*	*25-Jul-2025 05:29*
Surr: 4-Bromofluorobenzene	*96.2*			*77-113*	*%REC*	*1*	*25-Jul-2025 05:29*
Surr: Dibromofluoromethane	*96.9*			*77-123*	*%REC*	*1*	*25-Jul-2025 05:29*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*1*	*25-Jul-2025 05:29*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 21:48
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 21:48
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 21:48
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*25-Jul-2025 21:48*
Surr: 2,5-Dibromotoluene (Aromatic)	*95.7*			*70-130*	*%REC*	*1*	*25-Jul-2025 21:48*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:27
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:27
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:27
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:27
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:27
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:27
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:27
Surr: 1-Chlorooctadecane	*74.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:27*
Surr: 2-Bromonaphthalene	*81.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:27*
Surr: 2-Fluorobiphenyl	*79.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:27*
Surr: o-Terphenyl	*64.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:27*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-06
Collection Date: 22-Jul-2025 12:35

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-24
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00103**	J	**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 17:03
Barium	**0.196**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 17:03
Calcium	**64.5**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 17:03
Chromium	U		0.000400	0.00400	mg/L	1	28-Jul-2025 17:03
Iron	**0.0713**	J	**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 17:03
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 17:03
Magnesium	**11.6**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 17:03
Manganese	**0.874**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 17:03
Nickel	**0.000820**	J	**0.000600**	**0.00200**	**mg/L**	1	28-Jul-2025 17:03
Potassium	**2.23**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 17:03
Sodium	**119**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 17:03
Strontium	**0.471**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 17:03
Vanadium	**0.00304**	J	**0.000600**	**0.00500**	**mg/L**	1	28-Jul-2025 17:03
Zinc	**0.00375**	J	**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 17:03
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 16:26
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.62**		**0.500**	**1.00**	**mg/L**	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**696**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**140**		**1.20**	**5.00**	**mg/L**	1	24-Jul-2025 00:21
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	24-Jul-2025 00:21
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.52**	J	**0.920**	**5.00**	**mg/L**	1	29-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.67**	H	**0.100**	**1.00**	**pH Units**	1	24-Jul-2025 00:21
Temp Deg C @pH	**22.7**	H	**0**	**0**	**°C**	1	24-Jul-2025 00:21
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 16:43
Chloride	**207**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 16:48
Sulfate	**89.1**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 16:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-24
Collection Date: 22-Jul-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-25
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 05:52
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 05:52
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 05:52
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 05:52
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 05:52
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 05:52
Surr: 1,2-Dichloroethane-d4	*99.3*			*70-126*	*%REC*	*1*	*25-Jul-2025 05:52*
Surr: 4-Bromofluorobenzene	*95.2*			*77-113*	*%REC*	*1*	*25-Jul-2025 05:52*
Surr: Dibromofluoromethane	*99.7*			*77-123*	*%REC*	*1*	*25-Jul-2025 05:52*
Surr: Toluene-d8	*97.5*			*82-127*	*%REC*	*1*	*25-Jul-2025 05:52*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**0.153**		**0.00180**	**0.00500**	**mg/L**	1	25-Jul-2025 22:27
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 22:27
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 22:27
Surr: 2,5-Dibromotoluene (Aliphatic)	*99.7*			*70-130*	*%REC*	*1*	*25-Jul-2025 22:27*
Surr: 2,5-Dibromotoluene (Aromatic)	*94.4*			*70-130*	*%REC*	*1*	*25-Jul-2025 22:27*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:56
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:56
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:56
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:56
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:56
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:56
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 09:56
Surr: 1-Chlorooctadecane	*56.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:56*
Surr: 2-Bromonaphthalene	*85.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:56*
Surr: 2-Fluorobiphenyl	*83.6*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:56*
Surr: o-Terphenyl	*58.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 09:56*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-24
Collection Date: 22-Jul-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-25
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00129**	J	**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 17:05
Barium	**0.261**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 17:05
Calcium	**74.3**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 17:05
Chromium	U		0.000400	0.00400	mg/L	1	28-Jul-2025 17:05
Iron	**0.0671**	J	**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 17:05
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 17:05
Magnesium	**13.4**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 17:05
Manganese	**0.512**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 17:05
Nickel	**0.000762**	J	**0.000600**	**0.00200**	**mg/L**	1	28-Jul-2025 17:05
Potassium	**2.59**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 17:05
Sodium	**136**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 17:05
Strontium	**0.531**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 17:05
Vanadium	**0.00242**	J	**0.000600**	**0.00500**	**mg/L**	1	28-Jul-2025 17:05
Zinc	**0.00348**	J	**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 17:05
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 16:31
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**656**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**163**		**1.20**	**5.00**	**mg/L**	1	24-Jul-2025 00:26
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	24-Jul-2025 00:26
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	29-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.49**	H	**0.100**	**1.00**	**pH Units**	1	24-Jul-2025 00:26
Temp Deg C @pH	**22.6**	H	**0**	**0**	**°C**	1	24-Jul-2025 00:26
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 17:18
Chloride	**209**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 17:41
Sulfate	**79.9**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 17:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-04
Collection Date: 22-Jul-2025 14:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-26
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 06:15
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 06:15
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 06:15
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 06:15
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 06:15
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 06:15
Surr: 1,2-Dichloroethane-d4	*96.7*			*70-126*	*%REC*	*1*	*25-Jul-2025 06:15*
Surr: 4-Bromofluorobenzene	*95.1*			*77-113*	*%REC*	*1*	*25-Jul-2025 06:15*
Surr: Dibromofluoromethane	*98.6*			*77-123*	*%REC*	*1*	*25-Jul-2025 06:15*
Surr: Toluene-d8	*98.0*			*82-127*	*%REC*	*1*	*25-Jul-2025 06:15*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 23:06
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 23:06
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 23:06
Surr: 2,5-Dibromotoluene (Aliphatic)	*109*			*70-130*	*%REC*	*1*	*25-Jul-2025 23:06*
Surr: 2,5-Dibromotoluene (Aromatic)	*103*			*70-130*	*%REC*	*1*	*25-Jul-2025 23:06*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:24
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:24
Aliphatics >C16 - C35	**0.0568**	J	**0.0250**	**0.100**	**mg/L**	1	29-Jul-2025 10:24
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:24
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:24
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:24
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:24
Surr: 1-Chlorooctadecane	*72.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:24*
Surr: 2-Bromonaphthalene	*88.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:24*
Surr: 2-Fluorobiphenyl	*86.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:24*
Surr: o-Terphenyl	*69.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-04
Collection Date: 22-Jul-2025 14:15

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-26
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.00134**	J	**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 17:07
Barium	**0.393**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 17:07
Calcium	**70.8**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 17:07
Chromium	U		0.000400	0.00400	mg/L	1	28-Jul-2025 17:07
Iron	**0.0528**	J	**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 17:07
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 17:07
Magnesium	**15.1**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 17:07
Manganese	**1.00**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 17:07
Nickel	**0.000792**	J	**0.000600**	**0.00200**	**mg/L**	1	28-Jul-2025 17:07
Potassium	**2.68**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 17:07
Sodium	**150**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 17:07
Strontium	**0.547**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 17:07
Vanadium	**0.00405**	J	**0.000600**	**0.00500**	**mg/L**	1	28-Jul-2025 17:07
Zinc	**0.00472**		**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 17:07
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 16:33
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.62**		**0.500**	**1.00**	**mg/L**	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**688**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**162**		**1.20**	**5.00**	**mg/L**	1	24-Jul-2025 00:32
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	24-Jul-2025 00:32
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.52**	J	**0.920**	**5.00**	**mg/L**	1	29-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.43**	H	**0.100**	**1.00**	**pH Units**	1	24-Jul-2025 00:32
Temp Deg C @pH	**22.6**	H	**0**	**0**	**°C**	1	24-Jul-2025 00:32
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 17:24
Chloride	**227**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 17:47
Sulfate	**66.2**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 17:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-17
Collection Date: 22-Jul-2025 14:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-27
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 06:38
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 06:38
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 06:38
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 06:38
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 06:38
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 06:38
Surr: 1,2-Dichloroethane-d4	*97.3*			*70-126*	*%REC*	*1*	*25-Jul-2025 06:38*
Surr: 4-Bromofluorobenzene	*96.4*			*77-113*	*%REC*	*1*	*25-Jul-2025 06:38*
Surr: Dibromofluoromethane	*96.4*			*77-123*	*%REC*	*1*	*25-Jul-2025 06:38*
Surr: Toluene-d8	*97.3*			*82-127*	*%REC*	*1*	*25-Jul-2025 06:38*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 01:02
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 01:02
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 01:02
Surr: 2,5-Dibromotoluene (Aliphatic)	*99.5*			*70-130*	*%REC*	*1*	*26-Jul-2025 01:02*
Surr: 2,5-Dibromotoluene (Aromatic)	*94.2*			*70-130*	*%REC*	*1*	*26-Jul-2025 01:02*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:53
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:53
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:53
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:53
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:53
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:53
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 10:53
Surr: 1-Chlorooctadecane	*71.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:53*
Surr: 2-Bromonaphthalene	*83.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:53*
Surr: 2-Fluorobiphenyl	*81.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:53*
Surr: o-Terphenyl	*64.6*			*40-140*	*%REC*	*1*	*29-Jul-2025 10:53*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-17
Collection Date: 22-Jul-2025 14:40

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-27
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 28-Jul-2025		Analyst: JC
Arsenic	**0.000997**	J	**0.000400**	**0.00200**	**mg/L**	1	28-Jul-2025 17:09
Barium	**0.173**		**0.00190**	**0.00400**	**mg/L**	1	28-Jul-2025 17:09
Calcium	**61.2**		**0.0340**	**0.500**	**mg/L**	1	28-Jul-2025 17:09
Chromium	**0.00158**	J	**0.000400**	**0.00400**	**mg/L**	1	28-Jul-2025 17:09
Iron	**0.0792**	J	**0.0120**	**0.200**	**mg/L**	1	28-Jul-2025 17:09
Lead	U		0.000600	0.00200	mg/L	1	28-Jul-2025 17:09
Magnesium	**12.6**		**0.0100**	**0.200**	**mg/L**	1	28-Jul-2025 17:09
Manganese	**0.706**		**0.000700**	**0.00500**	**mg/L**	1	28-Jul-2025 17:09
Nickel	**0.000761**	J	**0.000600**	**0.00200**	**mg/L**	1	28-Jul-2025 17:09
Potassium	**2.40**		**0.0180**	**0.200**	**mg/L**	1	28-Jul-2025 17:09
Sodium	**125**		**0.0140**	**0.200**	**mg/L**	1	28-Jul-2025 17:09
Strontium	**0.448**		**0.000200**	**0.00500**	**mg/L**	1	28-Jul-2025 17:09
Vanadium	**0.00274**	J	**0.000600**	**0.00500**	**mg/L**	1	28-Jul-2025 17:09
Zinc	**0.0105**		**0.00200**	**0.00400**	**mg/L**	1	28-Jul-2025 17:09
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 17:20
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.552**	J	**0.500**	**1.00**	**mg/L**	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**596**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**136**		**1.20**	**5.00**	**mg/L**	1	24-Jul-2025 00:38
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	24-Jul-2025 00:38
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	29-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.61**	H	**0.100**	**1.00**	**pH Units**	1	24-Jul-2025 00:38
Temp Deg C @pH	**22.7**	H	**0**	**0**	**°C**	1	24-Jul-2025 00:38
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 17:29
Chloride	**200**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 17:53
Sulfate	**69.6**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 17:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR 14 (FIELD FILTER)
Collection Date: 22-Jul-2025 15:10

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-28
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	28-Jul-2025 13:04
Ethylbenzene		U	0.00033	0.0020	mg/L	1	28-Jul-2025 13:04
m,p-Xylene		U	0.00061	0.0040	mg/L	1	28-Jul-2025 13:04
o-Xylene		U	0.00031	0.0020	mg/L	1	28-Jul-2025 13:04
Toluene		U	0.00033	0.0020	mg/L	1	28-Jul-2025 13:04
Xylenes, Total		U	0.00092	0.0060	mg/L	1	28-Jul-2025 13:04
Surr: 1,2-Dichloroethane-d4	*97.7*			*70-126*	*%REC*	*1*	*28-Jul-2025 13:04*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*28-Jul-2025 13:04*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*28-Jul-2025 13:04*
Surr: Toluene-d8	*98.8*			*82-127*	*%REC*	*1*	*28-Jul-2025 13:04*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 01:41
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 01:41
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 01:41
Surr: 2,5-Dibromotoluene (Aliphatic)	*104*			*70-130*	*%REC*	*1*	*26-Jul-2025 01:41*
Surr: 2,5-Dibromotoluene (Aromatic)	*98.2*			*70-130*	*%REC*	*1*	*26-Jul-2025 01:41*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 28-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 11:22
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 11:22
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 11:22
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 11:22
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 11:22
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 11:22
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 11:22
Surr: 1-Chlorooctadecane	*77.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 11:22*
Surr: 2-Bromonaphthalene	*94.0*			*40-140*	*%REC*	*1*	*29-Jul-2025 11:22*
Surr: 2-Fluorobiphenyl	*95.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 11:22*
Surr: o-Terphenyl	*73.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 11:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR 14 (FIELD FILTER)
Collection Date: 22-Jul-2025 15:10

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-28
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A	**Method:SW6020A (dissolved)**				Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00109**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 12:27
Barium	**0.183**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 12:27
Calcium	**60.4**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 12:27
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 12:27
Iron	**0.0248**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 12:27
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 12:27
Magnesium	**12.6**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 12:27
Manganese	**0.444**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 12:27
Nickel	**0.000618**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 12:27
Potassium	**1.70**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 12:27
Sodium	**176**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 12:27
Strontium	**0.503**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 12:27
Vanadium	**0.00126**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 12:27
Zinc	**0.00407**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 12:27
DISSOLVED MERCURY BY SW7470A	**Method:SW7470A (dissolved)**				Prep:SW7470A / 28-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	28-Jul-2025 18:15
HYDROGEN SULFIDE BY E376.1	**Method:E376.1**						Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	29-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C	**Method:M2540C**						Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**744**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 11:00
ALKALINITY BY SM2320B	**Method:SM2320B**						Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**112**		**1.20**	**5.00**	**mg/L**	1	24-Jul-2025 00:43
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	24-Jul-2025 00:43
SULFIDE BY SM4500 S2-F	**Method:SM4500 S2-F**						Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	29-Jul-2025 10:30
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: CD
pH	**8.03**	H	**0.100**	**1.00**	**pH Units**	1	24-Jul-2025 00:43
Temp Deg C @pH	**22.8**	H	**0**	**0**	**°C**	1	24-Jul-2025 00:43
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 17:35
Chloride	**300**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 17:59
Sulfate	**83.8**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 17:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-269
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-29
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 21:18
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 21:18
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 21:18
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 21:18
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 21:18
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 21:18
Surr: 1,2-Dichloroethane-d4	*98.2*			*70-126*	*%REC*	*1*	*24-Jul-2025 21:18*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*24-Jul-2025 21:18*
Surr: Dibromofluoromethane	*99.0*			*77-123*	*%REC*	*1*	*24-Jul-2025 21:18*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*24-Jul-2025 21:18*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-265
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 21:39
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 21:39
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 21:39
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 21:39
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 21:39
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 21:39
Surr: 1,2-Dichloroethane-d4	*99.1*			*70-126*	*%REC*	*1*	*24-Jul-2025 21:39*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*24-Jul-2025 21:39*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*24-Jul-2025 21:39*
Surr: Toluene-d8	*99.3*			*82-127*	*%REC*	*1*	*24-Jul-2025 21:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-263
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-31
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 22:00
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 22:00
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 22:00
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 22:00
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 22:00
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 22:00
Surr: 1,2-Dichloroethane-d4	*98.1*			*70-126*	*%REC*	*1*	*24-Jul-2025 22:00*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*24-Jul-2025 22:00*
Surr: Dibromofluoromethane	*99.4*			*77-123*	*%REC*	*1*	*24-Jul-2025 22:00*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*24-Jul-2025 22:00*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-256
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-32
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 22:20
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 22:20
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 22:20
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 22:20
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 22:20
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 22:20
Surr: 1,2-Dichloroethane-d4	*97.2*			*70-126*	*%REC*	*1*	*24-Jul-2025 22:20*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*24-Jul-2025 22:20*
Surr: Dibromofluoromethane	*99.8*			*77-123*	*%REC*	*1*	*24-Jul-2025 22:20*
Surr: Toluene-d8	*98.8*			*82-127*	*%REC*	*1*	*24-Jul-2025 22:20*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-195
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-33
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 22:41
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 22:41
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 22:41
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 22:41
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 22:41
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 22:41
Surr: 1,2-Dichloroethane-d4	*96.7*			*70-126*	*%REC*	*1*	*24-Jul-2025 22:41*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*24-Jul-2025 22:41*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*24-Jul-2025 22:41*
Surr: Toluene-d8	*97.9*			*82-127*	*%REC*	*1*	*24-Jul-2025 22:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-268
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-34
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 23:02
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:02
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 23:02
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 23:02
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:02
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 23:02
Surr: 1,2-Dichloroethane-d4	*99.1*			*70-126*	*%REC*	*1*	*24-Jul-2025 23:02*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*24-Jul-2025 23:02*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*24-Jul-2025 23:02*
Surr: Toluene-d8	*99.5*			*82-127*	*%REC*	*1*	*24-Jul-2025 23:02*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-258
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-35
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 23:23
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:23
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 23:23
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 23:23
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:23
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 23:23
Surr: 1,2-Dichloroethane-d4	*98.0*			*70-126*	*%REC*	*1*	*24-Jul-2025 23:23*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*24-Jul-2025 23:23*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*24-Jul-2025 23:23*
Surr: Toluene-d8	*99.4*			*82-127*	*%REC*	*1*	*24-Jul-2025 23:23*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-270
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-36
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	24-Jul-2025 23:44
Ethylbenzene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:44
m,p-Xylene		U	0.00061	0.0040	mg/L	1	24-Jul-2025 23:44
o-Xylene		U	0.00031	0.0020	mg/L	1	24-Jul-2025 23:44
Toluene		U	0.00033	0.0020	mg/L	1	24-Jul-2025 23:44
Xylenes, Total		U	0.00092	0.0060	mg/L	1	24-Jul-2025 23:44
Surr: 1,2-Dichloroethane-d4	*97.3*			*70-126*	*%REC*	*1*	*24-Jul-2025 23:44*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*24-Jul-2025 23:44*
Surr: Dibromofluoromethane	*98.4*			*77-123*	*%REC*	*1*	*24-Jul-2025 23:44*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*24-Jul-2025 23:44*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-267
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-37
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 00:05
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 00:05
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 00:05
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 00:05
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 00:05
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 00:05
Surr: 1,2-Dichloroethane-d4	*99.2*			*70-126*	*%REC*	*1*	*25-Jul-2025 00:05*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*25-Jul-2025 00:05*
Surr: Dibromofluoromethane	*99.5*			*77-123*	*%REC*	*1*	*25-Jul-2025 00:05*
Surr: Toluene-d8	*99.5*			*82-127*	*%REC*	*1*	*25-Jul-2025 00:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-271
Collection Date: 21-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071234
Lab ID:HS25071234-38
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	28-Jul-2025 12:02
Ethylbenzene		U	0.00033	0.0020	mg/L	1	28-Jul-2025 12:02
m,p-Xylene		U	0.00061	0.0040	mg/L	1	28-Jul-2025 12:02
o-Xylene		U	0.00031	0.0020	mg/L	1	28-Jul-2025 12:02
Toluene		U	0.00033	0.0020	mg/L	1	28-Jul-2025 12:02
Xylenes, Total		U	0.00092	0.0060	mg/L	1	28-Jul-2025 12:02
Surr: 1,2-Dichloroethane-d4	*96.5*			*70-126*	*%REC*	*1*	*28-Jul-2025 12:02*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*28-Jul-2025 12:02*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*28-Jul-2025 12:02*
Surr: Toluene-d8	*99.5*			*82-127*	*%REC*	*1*	*28-Jul-2025 12:02*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

Batch ID: 230873 **Start Date:** 25 Jul 2025 09:05 **End Date:** 25 Jul 2025 09:05
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-01	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-02	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-03	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-04	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-05	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-06	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-07	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-08	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 230946 **Start Date:** 28 Jul 2025 07:25 **End Date:** 28 Jul 2025 07:25
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-09	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-10	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-11	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-12	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-13	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-14	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-15	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-16	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-17	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-18	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-19	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-20	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-21	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-22	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-23	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-24	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-25	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-26	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-27	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071234-28	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 230984 **Start Date:** 28 Jul 2025 12:30 **End Date:** 28 Jul 2025 12:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-22		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-27		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

Batch ID: 230993 **Start Date:** 28 Jul 2025 13:30 **End Date:** 28 Jul 2025 13:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-18		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-20		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-21		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 230997 **Start Date:** 28 Jul 2025 09:30 **End Date:** 28 Jul 2025 09:30
Method: MERCURY PREP BY 7470A - DISSOLVED **Prep Code:** HG_W_DISSPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-28		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 231016 **Start Date:** 29 Jul 2025 09:00 **End Date:** 29 Jul 2025 09:00
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-28		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 231032 **Start Date:** 29 Jul 2025 09:00 **End Date:** 29 Jul 2025 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-01		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

Batch ID: 231033 **Start Date:** 29 Jul 2025 09:00 **End Date:** 29 Jul 2025 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-18		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-20		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-22		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 231046 **Start Date:** 29 Jul 2025 10:00 **End Date:** 29 Jul 2025 10:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071234-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071234-27		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 230873 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50		25 Jul 2025 09:05	25 Jul 2025 20:35	1
HS25071234-01	MW-1-200	21 Jul 2025 13:50		25 Jul 2025 09:05	25 Jul 2025 20:35	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15		25 Jul 2025 09:05	25 Jul 2025 21:04	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15		25 Jul 2025 09:05	25 Jul 2025 21:04	1
HS25071234-03	FB-072125	21 Jul 2025 16:50		25 Jul 2025 09:05	25 Jul 2025 21:32	1
HS25071234-03	FB-072125	21 Jul 2025 16:50		25 Jul 2025 09:05	25 Jul 2025 21:32	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00		25 Jul 2025 09:05	25 Jul 2025 22:01	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00		25 Jul 2025 09:05	25 Jul 2025 22:01	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50		25 Jul 2025 09:05	25 Jul 2025 22:30	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50		25 Jul 2025 09:05	25 Jul 2025 22:30	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00		25 Jul 2025 09:05	25 Jul 2025 23:56	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00		25 Jul 2025 09:05	25 Jul 2025 23:56	1
HS25071234-07	019-995	22 Jul 2025 16:05		25 Jul 2025 09:05	26 Jul 2025 00:25	1
HS25071234-07	019-995	22 Jul 2025 16:05		25 Jul 2025 09:05	26 Jul 2025 00:25	1
HS25071234-08	FB-072225	22 Jul 2025 16:15		25 Jul 2025 09:05	26 Jul 2025 00:54	1
HS25071234-08	FB-072225	22 Jul 2025 16:15		25 Jul 2025 09:05	26 Jul 2025 00:54	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 230946 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25071234-09	019-582	22 Jul 2025 16:40		28 Jul 2025 07:25	28 Jul 2025 16:55	1
HS25071234-09	019-582	22 Jul 2025 16:40		28 Jul 2025 07:25	28 Jul 2025 16:55	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40		28 Jul 2025 07:25	28 Jul 2025 17:24	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40		28 Jul 2025 07:25	28 Jul 2025 17:24	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35		28 Jul 2025 07:25	28 Jul 2025 17:53	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35		28 Jul 2025 07:25	28 Jul 2025 17:53	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55		28 Jul 2025 07:25	28 Jul 2025 18:22	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55		28 Jul 2025 07:25	28 Jul 2025 18:22	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20		28 Jul 2025 07:25	28 Jul 2025 18:51	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20		28 Jul 2025 07:25	28 Jul 2025 18:51	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35		28 Jul 2025 07:25	28 Jul 2025 20:17	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35		28 Jul 2025 07:25	28 Jul 2025 20:17	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25		28 Jul 2025 07:25	28 Jul 2025 20:46	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25		28 Jul 2025 07:25	28 Jul 2025 20:46	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35		28 Jul 2025 07:25	28 Jul 2025 21:15	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35		28 Jul 2025 07:25	28 Jul 2025 21:15	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00		28 Jul 2025 07:25	28 Jul 2025 21:43	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00		28 Jul 2025 07:25	28 Jul 2025 21:43	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15		28 Jul 2025 07:25	28 Jul 2025 22:12	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15		28 Jul 2025 07:25	28 Jul 2025 22:12	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30		28 Jul 2025 07:25	28 Jul 2025 22:41	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30		28 Jul 2025 07:25	28 Jul 2025 22:41	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45		28 Jul 2025 07:25	28 Jul 2025 23:10	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45		28 Jul 2025 07:25	28 Jul 2025 23:10	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00		28 Jul 2025 07:25	28 Jul 2025 15:29	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00		28 Jul 2025 07:25	28 Jul 2025 15:29	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00		28 Jul 2025 07:25	28 Jul 2025 23:38	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00		28 Jul 2025 07:25	28 Jul 2025 23:38	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40		28 Jul 2025 07:25	29 Jul 2025 08:58	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40		28 Jul 2025 07:25	29 Jul 2025 08:58	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35		28 Jul 2025 07:25	29 Jul 2025 09:27	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35		28 Jul 2025 07:25	29 Jul 2025 09:27	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00		28 Jul 2025 07:25	29 Jul 2025 09:56	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00		28 Jul 2025 07:25	29 Jul 2025 09:56	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15		28 Jul 2025 07:25	29 Jul 2025 10:24	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15		28 Jul 2025 07:25	29 Jul 2025 10:24	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40		28 Jul 2025 07:25	29 Jul 2025 10:53	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40		28 Jul 2025 07:25	29 Jul 2025 10:53	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10		28 Jul 2025 07:25	29 Jul 2025 11:22	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10		28 Jul 2025 07:25	29 Jul 2025 11:22	1
Batch ID: 230984 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50		28 Jul 2025 12:30	28 Jul 2025 16:40	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15		28 Jul 2025 12:30	28 Jul 2025 16:42	1
HS25071234-03	FB-072125	21 Jul 2025 16:50		28 Jul 2025 12:30	28 Jul 2025 16:44	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00		28 Jul 2025 12:30	28 Jul 2025 16:46	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50		28 Jul 2025 12:30	28 Jul 2025 16:48	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00		28 Jul 2025 12:30	28 Jul 2025 17:01	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35		28 Jul 2025 12:30	28 Jul 2025 17:03	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00		28 Jul 2025 12:30	28 Jul 2025 17:05	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15		28 Jul 2025 12:30	28 Jul 2025 17:07	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40		28 Jul 2025 12:30	28 Jul 2025 17:09	1
Batch ID: 230993 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25071234-06	MW-2-700	22 Jul 2025 13:00		28 Jul 2025 13:30	29 Jul 2025 11:00	1
HS25071234-07	019-995	22 Jul 2025 16:05		28 Jul 2025 13:30	29 Jul 2025 11:12	1
HS25071234-08	FB-072225	22 Jul 2025 16:15		28 Jul 2025 13:30	29 Jul 2025 11:14	1
HS25071234-09	019-582	22 Jul 2025 16:40		28 Jul 2025 13:30	29 Jul 2025 11:16	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35		28 Jul 2025 13:30	29 Jul 2025 11:18	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55		28 Jul 2025 13:30	29 Jul 2025 11:20	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20		28 Jul 2025 13:30	29 Jul 2025 11:22	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35		28 Jul 2025 13:30	29 Jul 2025 11:24	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25		28 Jul 2025 13:30	29 Jul 2025 11:26	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35		28 Jul 2025 13:30	29 Jul 2025 11:28	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00		28 Jul 2025 13:30	29 Jul 2025 11:43	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15		28 Jul 2025 13:30	29 Jul 2025 11:45	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30		28 Jul 2025 13:30	29 Jul 2025 11:47	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45		28 Jul 2025 13:30	29 Jul 2025 11:49	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00		28 Jul 2025 13:30	29 Jul 2025 10:52	1
Batch ID: 230997 (0)	**Test Name :** DISSOLVED MERCURY BY SW7470A				**Matrix:** Water	
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40		28 Jul 2025 09:30	28 Jul 2025 18:08	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40		28 Jul 2025 09:30	28 Jul 2025 18:13	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10		28 Jul 2025 09:30	28 Jul 2025 18:15	1
Batch ID: 231016 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40		29 Jul 2025 09:00	29 Jul 2025 13:17	20
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40		29 Jul 2025 09:00	29 Jul 2025 13:08	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40		29 Jul 2025 09:00	29 Jul 2025 13:10	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10		29 Jul 2025 09:00	29 Jul 2025 12:27	1
Batch ID: 231032 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50		29 Jul 2025 09:00	29 Jul 2025 13:36	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 231033 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25071234-02	MW-1-500	21 Jul 2025 16:15		29 Jul 2025 09:00	29 Jul 2025 14:15	1
HS25071234-03	FB-072125	21 Jul 2025 16:50		29 Jul 2025 09:00	29 Jul 2025 14:17	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00		29 Jul 2025 09:00	29 Jul 2025 14:19	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50		29 Jul 2025 09:00	29 Jul 2025 14:21	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00		29 Jul 2025 09:00	29 Jul 2025 14:22	1
HS25071234-07	019-995	22 Jul 2025 16:05		29 Jul 2025 09:00	29 Jul 2025 14:24	1
HS25071234-08	FB-072225	22 Jul 2025 16:15		29 Jul 2025 09:00	29 Jul 2025 14:26	1
HS25071234-09	019-582	22 Jul 2025 16:40		29 Jul 2025 09:00	29 Jul 2025 14:27	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35		29 Jul 2025 09:00	29 Jul 2025 14:33	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55		29 Jul 2025 09:00	29 Jul 2025 14:34	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20		29 Jul 2025 09:00	29 Jul 2025 14:36	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35		29 Jul 2025 09:00	29 Jul 2025 14:38	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25		29 Jul 2025 09:00	29 Jul 2025 14:39	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35		29 Jul 2025 09:00	29 Jul 2025 14:41	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00		29 Jul 2025 09:00	29 Jul 2025 14:43	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15		29 Jul 2025 09:00	29 Jul 2025 14:44	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30		29 Jul 2025 09:00	29 Jul 2025 14:46	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45		29 Jul 2025 09:00	29 Jul 2025 14:48	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00		29 Jul 2025 09:00	29 Jul 2025 14:57	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00		29 Jul 2025 09:00	29 Jul 2025 15:04	1
Batch ID: 231046 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25071234-24	LDNR-06	22 Jul 2025 12:35		29 Jul 2025 10:00	29 Jul 2025 16:26	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00		29 Jul 2025 10:00	29 Jul 2025 16:31	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15		29 Jul 2025 10:00	29 Jul 2025 16:33	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40		29 Jul 2025 10:00	29 Jul 2025 17:20	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518270 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			23 Jul 2025 21:13	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			23 Jul 2025 21:19	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			23 Jul 2025 21:23	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			23 Jul 2025 21:28	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			23 Jul 2025 21:34	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			23 Jul 2025 21:40	1
HS25071234-07	019-995	22 Jul 2025 16:05			23 Jul 2025 21:45	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			23 Jul 2025 21:49	1
HS25071234-09	019-582	22 Jul 2025 16:40			23 Jul 2025 21:55	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			23 Jul 2025 22:01	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			23 Jul 2025 22:19	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			23 Jul 2025 22:24	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			23 Jul 2025 22:29	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			23 Jul 2025 22:34	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			23 Jul 2025 22:39	1
Batch ID: R518271 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			23 Jul 2025 23:21	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			23 Jul 2025 23:26	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			23 Jul 2025 23:31	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			23 Jul 2025 23:36	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			23 Jul 2025 23:41	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00			23 Jul 2025 23:46	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			24 Jul 2025 00:09	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			24 Jul 2025 00:15	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			24 Jul 2025 00:21	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			24 Jul 2025 00:26	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			24 Jul 2025 00:32	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			24 Jul 2025 00:38	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			24 Jul 2025 00:43	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518277 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			23 Jul 2025 21:13	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			23 Jul 2025 21:19	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			23 Jul 2025 21:23	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			23 Jul 2025 21:28	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			23 Jul 2025 21:34	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			23 Jul 2025 21:40	1
HS25071234-07	019-995	22 Jul 2025 16:05			23 Jul 2025 21:45	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			23 Jul 2025 21:49	1
HS25071234-09	019-582	22 Jul 2025 16:40			23 Jul 2025 21:55	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			23 Jul 2025 22:01	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			23 Jul 2025 22:19	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			23 Jul 2025 22:24	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			23 Jul 2025 22:29	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			23 Jul 2025 22:34	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			23 Jul 2025 22:39	1
Batch ID: R518279 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			23 Jul 2025 23:21	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			23 Jul 2025 23:26	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			23 Jul 2025 23:31	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			23 Jul 2025 23:36	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			23 Jul 2025 23:41	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00			23 Jul 2025 23:46	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			24 Jul 2025 00:09	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			24 Jul 2025 00:15	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			24 Jul 2025 00:21	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			24 Jul 2025 00:26	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			24 Jul 2025 00:32	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			24 Jul 2025 00:38	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			24 Jul 2025 00:43	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518348 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			25 Jul 2025 00:30	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			25 Jul 2025 00:53	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			25 Jul 2025 01:16	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			25 Jul 2025 01:39	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			25 Jul 2025 02:02	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			25 Jul 2025 02:25	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			25 Jul 2025 02:48	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			25 Jul 2025 03:11	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			25 Jul 2025 03:34	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			25 Jul 2025 03:57	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			25 Jul 2025 04:20	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00			24 Jul 2025 23:21	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			25 Jul 2025 04:43	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			25 Jul 2025 05:06	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			25 Jul 2025 05:29	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			25 Jul 2025 05:52	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			25 Jul 2025 06:15	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			25 Jul 2025 06:38	1
Batch ID: R518364 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25071234-29	CG-061125-269	21 Jul 2025 00:00			24 Jul 2025 21:18	1
HS25071234-30	CG-061125-265	21 Jul 2025 00:00			24 Jul 2025 21:39	1
HS25071234-31	CG-061125-263	21 Jul 2025 00:00			24 Jul 2025 22:00	1
HS25071234-32	CG-061125-256	21 Jul 2025 00:00			24 Jul 2025 22:20	1
HS25071234-33	CG-061125-195	21 Jul 2025 00:00			24 Jul 2025 22:41	1
HS25071234-34	CG-061125-268	21 Jul 2025 00:00			24 Jul 2025 23:02	1
HS25071234-35	CG-061125-258	21 Jul 2025 00:00			24 Jul 2025 23:23	1
HS25071234-36	CG-061125-270	21 Jul 2025 00:00			24 Jul 2025 23:44	1
HS25071234-37	CG-061125-267	21 Jul 2025 00:00			25 Jul 2025 00:05	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518366 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			25 Jul 2025 11:00	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			25 Jul 2025 11:00	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			25 Jul 2025 11:00	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			25 Jul 2025 11:00	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			25 Jul 2025 11:00	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			25 Jul 2025 11:00	1
HS25071234-07	019-995	22 Jul 2025 16:05			25 Jul 2025 11:00	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			25 Jul 2025 11:00	1
HS25071234-09	019-582	22 Jul 2025 16:40			25 Jul 2025 11:00	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			25 Jul 2025 11:00	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			25 Jul 2025 11:00	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			25 Jul 2025 11:00	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			25 Jul 2025 11:00	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			25 Jul 2025 11:00	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			25 Jul 2025 11:00	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			25 Jul 2025 11:00	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			25 Jul 2025 11:00	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			25 Jul 2025 11:00	1
Batch ID: R518367 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			25 Jul 2025 11:00	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			25 Jul 2025 11:00	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			25 Jul 2025 11:00	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			25 Jul 2025 11:00	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			25 Jul 2025 11:00	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			25 Jul 2025 11:00	1
HS25071234-07	019-995	22 Jul 2025 16:05			25 Jul 2025 11:00	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			25 Jul 2025 11:00	1
HS25071234-09	019-582	22 Jul 2025 16:40			25 Jul 2025 11:00	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			25 Jul 2025 11:00	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			25 Jul 2025 11:00	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			25 Jul 2025 11:00	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			25 Jul 2025 11:00	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			25 Jul 2025 11:00	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			25 Jul 2025 11:00	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			25 Jul 2025 11:00	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			25 Jul 2025 11:00	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			25 Jul 2025 11:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518415 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			24 Jul 2025 18:12	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			24 Jul 2025 18:51	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			24 Jul 2025 16:54	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			24 Jul 2025 19:29	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			24 Jul 2025 20:08	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			24 Jul 2025 20:47	1
HS25071234-07	019-995	22 Jul 2025 16:05			24 Jul 2025 22:43	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			24 Jul 2025 17:33	1
HS25071234-09	019-582	22 Jul 2025 16:40			24 Jul 2025 23:22	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			25 Jul 2025 00:01	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			25 Jul 2025 00:40	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			25 Jul 2025 01:18	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			25 Jul 2025 01:57	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			25 Jul 2025 02:36	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			25 Jul 2025 03:14	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			25 Jul 2025 03:53	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			25 Jul 2025 04:32	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			25 Jul 2025 06:28	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			25 Jul 2025 07:07	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00			25 Jul 2025 07:46	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518421 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			24 Jul 2025 18:12	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			24 Jul 2025 18:51	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			24 Jul 2025 16:54	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			24 Jul 2025 19:29	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			24 Jul 2025 20:08	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			24 Jul 2025 20:47	1
HS25071234-07	019-995	22 Jul 2025 16:05			24 Jul 2025 22:43	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			24 Jul 2025 17:33	1
HS25071234-09	019-582	22 Jul 2025 16:40			24 Jul 2025 23:22	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			25 Jul 2025 00:01	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			25 Jul 2025 00:40	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			25 Jul 2025 01:18	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			25 Jul 2025 01:57	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			25 Jul 2025 02:36	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			25 Jul 2025 03:14	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			25 Jul 2025 03:53	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			25 Jul 2025 04:32	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			25 Jul 2025 06:28	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			25 Jul 2025 07:07	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00			25 Jul 2025 07:46	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518434 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			25 Jul 2025 08:25	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			25 Jul 2025 08:31	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			25 Jul 2025 08:37	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			25 Jul 2025 08:43	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			25 Jul 2025 08:49	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			25 Jul 2025 09:01	10
HS25071234-06	MW-2-700	22 Jul 2025 13:00			25 Jul 2025 08:55	1
HS25071234-07	019-995	22 Jul 2025 16:05			25 Jul 2025 09:06	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			25 Jul 2025 09:36	1
HS25071234-09	019-582	22 Jul 2025 16:40			25 Jul 2025 09:41	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			25 Jul 2025 09:53	10
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			25 Jul 2025 09:47	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			25 Jul 2025 09:59	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			25 Jul 2025 10:05	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			25 Jul 2025 10:11	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			25 Jul 2025 10:16	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			25 Jul 2025 10:22	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			25 Jul 2025 10:28	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			25 Jul 2025 10:57	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			25 Jul 2025 11:03	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			25 Jul 2025 11:09	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			25 Jul 2025 11:15	1
Batch ID: R518436 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25071234-21	LDNR-26	22 Jul 2025 08:00			25 Jul 2025 16:07	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			25 Jul 2025 16:25	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			25 Jul 2025 16:37	10
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			25 Jul 2025 16:31	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			25 Jul 2025 16:48	10
HS25071234-24	LDNR-06	22 Jul 2025 12:35			25 Jul 2025 16:43	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			25 Jul 2025 17:41	10
HS25071234-25	LDNR-24	22 Jul 2025 13:00			25 Jul 2025 17:18	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			25 Jul 2025 17:47	10
HS25071234-26	LDNR-04	22 Jul 2025 14:15			25 Jul 2025 17:24	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			25 Jul 2025 17:53	10
HS25071234-27	LDNR-17	22 Jul 2025 14:40			25 Jul 2025 17:29	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			25 Jul 2025 17:59	10
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			25 Jul 2025 17:35	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome **DATES REPORT**
WorkOrder: HS25071234

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518451 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			26 Jul 2025 10:00	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			26 Jul 2025 10:00	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			26 Jul 2025 10:00	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			26 Jul 2025 10:00	1
HS25071234-11	SL-05 BOTT	21 Jul 2025 12:35			26 Jul 2025 10:00	1
HS25071234-12	SL-05 TOP	21 Jul 2025 12:55			26 Jul 2025 10:00	1
HS25071234-13	SL-04 BOTT	21 Jul 2025 13:20			26 Jul 2025 10:00	1
HS25071234-14	SL-04 TOP	21 Jul 2025 13:35			26 Jul 2025 10:00	1
HS25071234-15	SL-03 BOTT	21 Jul 2025 15:25			26 Jul 2025 10:00	1
HS25071234-16	SL-03 TOP	21 Jul 2025 15:35			26 Jul 2025 10:00	1
HS25071234-17	SL-02 BOTT	21 Jul 2025 16:00			26 Jul 2025 10:00	1
HS25071234-18	SL-02 TOP	21 Jul 2025 16:15			26 Jul 2025 10:00	1
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			26 Jul 2025 10:00	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			26 Jul 2025 10:00	1
Batch ID: R518452 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25071234-05	MW-2-200	22 Jul 2025 10:50			26 Jul 2025 11:00	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			26 Jul 2025 11:00	1
HS25071234-07	019-995	22 Jul 2025 16:05			26 Jul 2025 11:00	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			26 Jul 2025 11:00	1
HS25071234-09	019-582	22 Jul 2025 16:40			26 Jul 2025 11:00	1
HS25071234-10	LDNR-1B (Field Filtered)	22 Jul 2025 15:40			26 Jul 2025 11:00	1
HS25071234-21	LDNR-26	22 Jul 2025 08:00			26 Jul 2025 11:00	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			26 Jul 2025 11:00	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			26 Jul 2025 11:00	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			26 Jul 2025 11:00	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			26 Jul 2025 11:00	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			26 Jul 2025 11:00	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			26 Jul 2025 11:00	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			26 Jul 2025 11:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518465 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25071234-01	MW-1-200	21 Jul 2025 13:50			26 Jul 2025 13:51	1
HS25071234-02	MW-1-500	21 Jul 2025 16:15			26 Jul 2025 14:12	1
HS25071234-03	FB-072125	21 Jul 2025 16:50			26 Jul 2025 10:44	1
HS25071234-04	MW-1-700	22 Jul 2025 09:00			26 Jul 2025 14:33	1
HS25071234-05	MW-2-200	22 Jul 2025 10:50			26 Jul 2025 14:54	1
HS25071234-06	MW-2-700	22 Jul 2025 13:00			26 Jul 2025 15:14	1
HS25071234-07	019-995	22 Jul 2025 16:05			26 Jul 2025 15:35	1
HS25071234-08	FB-072225	22 Jul 2025 16:15			26 Jul 2025 11:04	1
HS25071234-09	019-582	22 Jul 2025 16:40			26 Jul 2025 15:56	1
Batch ID: R518490 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			25 Jul 2025 19:52	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			25 Jul 2025 20:31	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			25 Jul 2025 21:10	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			25 Jul 2025 21:48	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			25 Jul 2025 22:27	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			25 Jul 2025 23:06	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			26 Jul 2025 01:02	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			26 Jul 2025 01:41	1
Batch ID: R518492 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			25 Jul 2025 19:52	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			25 Jul 2025 20:31	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			25 Jul 2025 21:10	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			25 Jul 2025 21:48	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			25 Jul 2025 22:27	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			25 Jul 2025 23:06	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			26 Jul 2025 01:02	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			26 Jul 2025 01:41	1
Batch ID: R518521 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			28 Jul 2025 14:00	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			28 Jul 2025 14:00	1
Batch ID: R518531 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			28 Jul 2025 13:04	1
HS25071234-38	CG-061125-271	21 Jul 2025 00:00			28 Jul 2025 12:02	1
Batch ID: R518546 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25071234-19	SL-01 BOTT	21 Jul 2025 16:30			28 Jul 2025 14:00	1
HS25071234-20	SL-01 TOP	21 Jul 2025 16:45			28 Jul 2025 14:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518588 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25071234-21	LDNR-26	22 Jul 2025 08:00			29 Jul 2025 10:30	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			29 Jul 2025 10:30	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			29 Jul 2025 10:30	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			29 Jul 2025 10:30	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			29 Jul 2025 10:30	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			29 Jul 2025 10:30	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			29 Jul 2025 10:30	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			29 Jul 2025 10:30	1
Batch ID: R518589 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25071234-21	LDNR-26	22 Jul 2025 08:00			29 Jul 2025 10:30	1
HS25071234-22	SW-DUP-2	22 Jul 2025 00:00			29 Jul 2025 10:30	1
HS25071234-23	LDNR-03 (FIELD FILTER)	22 Jul 2025 10:40			29 Jul 2025 10:30	1
HS25071234-24	LDNR-06	22 Jul 2025 12:35			29 Jul 2025 10:30	1
HS25071234-25	LDNR-24	22 Jul 2025 13:00			29 Jul 2025 10:30	1
HS25071234-26	LDNR-04	22 Jul 2025 14:15			29 Jul 2025 10:30	1
HS25071234-27	LDNR-17	22 Jul 2025 14:40			29 Jul 2025 10:30	1
HS25071234-28	LDNR 14 (FIELD FILTER)	22 Jul 2025 15:10			29 Jul 2025 10:30	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230873 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:11**
Client ID: Run ID: **FID23_518503** SeqNo: **8960198** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02504*	*0*	*0.04*	*0*	*62.6*	*40 - 140*				

MBLK Sample ID: **MBLK-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:11**
Client ID: Run ID: **FID-22_518504** SeqNo: **8960219** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03165*	*0*	*0.04*	*0*	*79.1*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03131*	*0*	*0.04*	*0*	*78.3*	*40 - 140*				
Surr: o-Terphenyl	*0.02366*	*0*	*0.04*	*0*	*59.1*	*40 - 140*				

LCS Sample ID: **LCS-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:40**
Client ID: Run ID: **FID23_518503** SeqNo: **8960199** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04063	0.100	0.05	0	81.3	40 - 140				J
Aliphatics >C12 - C16	0.08765	0.100	0.1	0	87.6	40 - 140				J
Aliphatics >C16 - C35	0.3421	0.100	0.4	0	85.5	40 - 140				
Surr: 1-Chlorooctadecane	*0.02469*	*0*	*0.04*	*0*	*61.7*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230873 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:40**
Client ID: Run ID: **FID-22_518504** SeqNo: **8960220** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.03962	0.100	0.05	0	79.2	40 - 140				J
Aromatics >C12 - C16	0.15	0.100	0.2	0	75.0	40 - 140				
Aromatics >C16 - C21	0.1197	0.100	0.15	0	79.8	40 - 140				
Aromatics >C21 - C35	0.3566	0.100	0.45	0	79.2	40 - 140				
Surr: 2-Bromonaphthalene	*0.03106*	*0*	*0.04*	*0*	*77.7*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03052*	*0*	*0.04*	*0*	*76.3*	*40 - 140*				
Surr: o-Terphenyl	*0.02261*	*0*	*0.04*	*0*	*56.5*	*40 - 140*				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 19:37**
Client ID: Run ID: **FID23_518503** SeqNo: **8960201** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04437	0.100	0.05	0	88.7	40 - 140				J
Aliphatics >C12 - C16	0.09851	0.100	0.1	0	98.5	40 - 140				J
Aliphatics >C16 - C35	0.3469	0.100	0.4	0	86.7	40 - 140				
Surr: 1-Chlorooctadecane	*0.02633*	*0*	*0.04*	*0*	*65.8*	*40 - 140*				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 19:37**
Client ID: Run ID: **FID-22_518504** SeqNo: **8960222** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04495	0.100	0.05	0	89.9	40 - 140				J
Aromatics >C12 - C16	0.1686	0.100	0.2	0	84.3	40 - 140				
Aromatics >C16 - C21	0.1378	0.100	0.15	0	91.8	40 - 140				
Aromatics >C21 - C35	0.4074	0.100	0.45	0.02686	84.6	40 - 140				
Surr: 2-Bromonaphthalene	*0.02831*	*0*	*0.04*	*0*	*70.8*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03367*	*0*	*0.04*	*0*	*84.2*	*40 - 140*				
Surr: o-Terphenyl	*0.0259*	*0*	*0.04*	*0*	*64.8*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230873 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 20:06**
Client ID: Run ID: **FID23_518503** SeqNo: **8960202** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.048	0.100	0.05	0	96.0	40 - 140	0.04437	0	50	J
Aliphatics >C12 - C16	0.1091	0.100	0.1	0	109	40 - 140	0.09851	10.2	50	
Aliphatics >C16 - C35	0.3898	0.100	0.4	0	97.5	40 - 140	0.3469	11.7	50	
Surr: 1-Chlorooctadecane	*0.02839*	*0*	*0.04*	*0*	*71.0*	*40 - 140*	*0.02633*	*7.54*	*50*	

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 20:06**
Client ID: Run ID: **FID-22_518504** SeqNo: **8960223** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04614	0.100	0.05	0	92.3	40 - 140	0.04495	0	50	J
Aromatics >C12 - C16	0.1688	0.100	0.2	0	84.4	40 - 140	0.1686	0.113	50	
Aromatics >C16 - C21	0.1348	0.100	0.15	0	89.9	40 - 140	0.1378	2.18	50	
Aromatics >C21 - C35	0.4055	0.100	0.45	0.02686	84.1	40 - 140	0.4074	0.448	50	
Surr: 2-Bromonaphthalene	*0.02683*	*0*	*0.04*	*0*	*67.1*	*40 - 140*	*0.02831*	*5.38*	*50*	
Surr: 2-Fluorobiphenyl	*0.03264*	*0*	*0.04*	*0*	*81.6*	*40 - 140*	*0.03367*	*3.11*	*50*	
Surr: o-Terphenyl	*0.02445*	*0*	*0.04*	*0*	*61.1*	*40 - 140*	*0.0259*	*5.77*	*50*	

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230946 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-230946** Units: **mg/L** Analysis Date: **28-Jul-2025 14:32**
Client ID: Run ID: **FID23_518570** SeqNo: **8961786** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02952*	*0*	*0.04*	*0*	*73.8*	*40 - 140*				

MBLK Sample ID: **MBLK-230946** Units: **mg/L** Analysis Date: **28-Jul-2025 14:32**
Client ID: Run ID: **FID-22_518571** SeqNo: **8961815** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03916*	*0*	*0.04*	*0*	*97.9*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03858*	*0*	*0.04*	*0*	*96.5*	*40 - 140*				
Surr: o-Terphenyl	*0.03027*	*0*	*0.04*	*0*	*75.7*	*40 - 140*				

LCS Sample ID: **LCS-230946** Units: **mg/L** Analysis Date: **28-Jul-2025 15:00**
Client ID: Run ID: **FID23_518570** SeqNo: **8961787** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04461	0.100	0.05	0	89.2	40 - 140				J
Aliphatics >C12 - C16	0.09756	0.100	0.1	0	97.6	40 - 140				J
Aliphatics >C16 - C35	0.3704	0.100	0.4	0	92.6	40 - 140				
Surr: 1-Chlorooctadecane	*0.027*	*0*	*0.04*	*0*	*67.5*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230946 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-230946** Units: **mg/L** Analysis Date: **28-Jul-2025 15:00**
Client ID: Run ID: **FID-22_518571** SeqNo: **8961816** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04576	0.100	0.05	0	91.5	40 - 140				J
Aromatics >C12 - C16	0.1757	0.100	0.2	0	87.9	40 - 140				
Aromatics >C16 - C21	0.1401	0.100	0.15	0	93.4	40 - 140				
Aromatics >C21 - C35	0.4028	0.100	0.45	0	89.5	40 - 140				
Surr: 2-Bromonaphthalene	*0.03711*	*0*	*0.04*	*0*	*92.8*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03649*	*0*	*0.04*	*0*	*91.2*	*40 - 140*				
Surr: o-Terphenyl	*0.02702*	*0*	*0.04*	*0*	*67.5*	*40 - 140*				

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **28-Jul-2025 15:58**
Client ID: **LDNR-26** Run ID: **FID23_518570** SeqNo: **8961789** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04656	0.100	0.05	0	93.1	40 - 140				J
Aliphatics >C12 - C16	0.1001	0.100	0.1	0	100	40 - 140				
Aliphatics >C16 - C35	0.3791	0.100	0.4	0	94.8	40 - 140				
Surr: 1-Chlorooctadecane	*0.02773*	*0*	*0.04*	*0*	*69.3*	*40 - 140*				

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **28-Jul-2025 15:58**
Client ID: **LDNR-26** Run ID: **FID-22_518571** SeqNo: **8961818** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05151	0.100	0.05	0	103	40 - 140				J
Aromatics >C12 - C16	0.1945	0.100	0.2	0	97.3	40 - 140				
Aromatics >C16 - C21	0.1523	0.100	0.15	0	102	40 - 140				
Aromatics >C21 - C35	0.4345	0.100	0.45	0	96.5	40 - 140				
Surr: 2-Bromonaphthalene	*0.03755*	*0*	*0.04*	*0*	*93.9*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.0372*	*0*	*0.04*	*0*	*93.0*	*40 - 140*				
Surr: o-Terphenyl	*0.02881*	*0*	*0.04*	*0*	*72.0*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230946 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **28-Jul-2025 16:27**
Client ID: **LDNR-26** Run ID: **FID23_518570** SeqNo: **8961790** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04644	0.100	0.05	0	92.9	40 - 140	0.04656	0	50	J
Aliphatics >C12 - C16	0.09827	0.100	0.1	0	98.3	40 - 140	0.1001	0	50	J
Aliphatics >C16 - C35	0.3647	0.100	0.4	0	91.2	40 - 140	0.3791	3.86	50	
Surr: 1-Chlorooctadecane	*0.02609*	*0*	*0.04*	*0*	*65.2*	*40 - 140*	*0.02773*	*6.1*	*50*	

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **28-Jul-2025 16:27**
Client ID: **LDNR-26** Run ID: **FID-22_518571** SeqNo: **8961819** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.0509	0.100	0.05	0	102	40 - 140	0.05151	0	50	J
Aromatics >C12 - C16	0.1903	0.100	0.2	0	95.1	40 - 140	0.1945	2.21	50	
Aromatics >C16 - C21	0.1464	0.100	0.15	0	97.6	40 - 140	0.1523	3.97	50	
Aromatics >C21 - C35	0.4186	0.100	0.45	0	93.0	40 - 140	0.4345	3.72	50	
Surr: 2-Bromonaphthalene	*0.04017*	*0*	*0.04*	*0*	*100*	*40 - 140*	*0.03755*	*6.74*	*50*	
Surr: 2-Fluorobiphenyl	*0.03932*	*0*	*0.04*	*0*	*98.3*	*40 - 140*	*0.0372*	*5.53*	*50*	
Surr: o-Terphenyl	*0.02769*	*0*	*0.04*	*0*	*69.2*	*40 - 140*	*0.02881*	*3.96*	*50*	

The following samples were analyzed in this batch:

HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	HS25071234-16
HS25071234-17	HS25071234-18	HS25071234-19	HS25071234-20
HS25071234-21	HS25071234-22	HS25071234-23	HS25071234-24
HS25071234-25	HS25071234-26	HS25071234-27	HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518415 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 16:16**
Client ID: Run ID: **FID-14_518415** SeqNo: **8957660** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2546*	*0.0100*	*0.25*	*0*	*102*	*70 - 130*				

LCS Sample ID: **LCS-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 14:58**
Client ID: Run ID: **FID-14_518415** SeqNo: **8957658** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.0275	0.00500	0.025	0	110	70 - 130				
Aliphatics >C8 - C10	0.02103	0.00500	0.025	0	84.1	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2473*	*0.0100*	*0.25*	*0*	*98.9*	*70 - 130*				

LCSD Sample ID: **LCSD-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 15:37**
Client ID: Run ID: **FID-14_518415** SeqNo: **8957659** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02525	0.00500	0.025	0	101	70 - 130	0.0275	8.54	25	
Aliphatics >C8 - C10	0.01881	0.00500	0.025	0	75.3	70 - 130	0.02103	11.1	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2643*	*0.0100*	*0.25*	*0*	*106*	*70 - 130*	*0.2473*	*6.61*	*25*	

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **25-Jul-2025 08:24**
Client ID: **LDNR-26** Run ID: **FID-14_518415** SeqNo: **8957683** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02651	0.00500	0.025	0	106	70 - 130				
Aliphatics >C8 - C10	0.02393	0.00500	0.025	0	95.7	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2707*	*0.0100*	*0.25*	*0*	*108*	*70 - 130*				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2707*	*0.0100*	*0.25*	*0*	*108*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: **R518415 (0)** **Instrument:** **FID-14** **Method:** **MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 09:03**
Client ID: **LDNR-26** Run ID: **FID-14_518415** SeqNo: **8957684** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02909	0.00500	0.025	0	116	70 - 130	0.02651	9.3	25	
Aliphatics >C8 - C10	0.01891	0.00500	0.025	0	75.6	70 - 130	0.02393	23.4	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2361*	*0.0100*	*0.25*	*0*	*94.4*	*70 - 130*	*0.2707*	*13.7*	*25*	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2361*	*0.0100*	*0.25*	*0*	*94.4*	*70 - 130*	*0.2707*	*13.7*	*25*	

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	HS25071234-16
HS25071234-17	HS25071234-18	HS25071234-19	HS25071234-21

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518421 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 16:16**
Client ID: Run ID: **FID-15_518421** SeqNo: **8957745** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2417*	*0.0100*	*0.25*	*0*	*96.7*	*70 - 130*				

LCS Sample ID: **LCS-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 14:58**
Client ID: Run ID: **FID-15_518421** SeqNo: **8957743** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08739	0.0200	0.1	0	87.4	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2344*	*0.0100*	*0.25*	*0*	*93.8*	*70 - 130*				

LCSD Sample ID: **LCSD-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 15:37**
Client ID: Run ID: **FID-15_518421** SeqNo: **8957744** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07747	0.0200	0.1	0	77.5	70 - 130	0.08739	12	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2509*	*0.0100*	*0.25*	*0*	*100*	*70 - 130*	*0.2344*	*6.78*	*25*	

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **25-Jul-2025 08:24**
Client ID: **LDNR-26** Run ID: **FID-15_518421** SeqNo: **8957768** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.079	0.0200	0.1	0	79.0	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2552*	*0.0100*	*0.25*	*0*	*102*	*70 - 130*				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2552*	*0.0100*	*0.25*	*0*	*102*	*70 - 130*				

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 09:03**
Client ID: **LDNR-26** Run ID: **FID-15_518421** SeqNo: **8957769** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07078	0.0200	0.1	0	70.8	70 - 130	0.079	11	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2223*	*0.0100*	*0.25*	*0*	*88.9*	*70 - 130*	*0.2552*	*13.8*	*25*	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2223*	*0.0100*	*0.25*	*0*	*88.9*	*70 - 130*	*0.2552*	*13.8*	*25*	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518421 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	HS25071234-16
HS25071234-17	HS25071234-18	HS25071234-19	HS25071234-21

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518490 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 18:35**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959911** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2396*	*0.0100*	*0.25*	*0*	*95.8*	*70 - 130*				

LCS Sample ID: **LCS-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:17**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959909** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.03018	0.00500	0.025	0	121	70 - 130				
Aliphatics >C8 - C10	0.02211	0.00500	0.025	0	88.4	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2186*	*0.0100*	*0.25*	*0*	*87.4*	*70 - 130*				

LCSD Sample ID: **LCSD-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:56**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959910** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02424	0.00500	0.025	0	97.0	70 - 130	0.03018	21.8	25	
Aliphatics >C8 - C10	0.0208	0.00500	0.025	0	83.2	70 - 130	0.02211	6.08	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2671*	*0.0100*	*0.25*	*0*	*107*	*70 - 130*	*0.2186*	*20*	*25*	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **26-Jul-2025 10:43**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959934** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02538	0.00500	0.025	0	102	70 - 130				
Aliphatics >C8 - C10	0.02328	0.00500	0.025	0	93.1	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2602*	*0.0100*	*0.25*	*0*	*104*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518490 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **26-Jul-2025 11:21**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959935** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02652	0.00500	0.025	0	106	70 - 130	0.02538	4.4	25	
Aliphatics >C8 - C10	0.0224	0.00500	0.025	0	89.6	70 - 130	0.02328	3.85	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2471*	*0.0100*	*0.25*	*0*	*98.8*	*70 - 130*	*0.2602*	*5.19*	*25*	

The following samples were analyzed in this batch: HS25071234-20 HS25071234-22 HS25071234-23 HS25071234-24 HS25071234-25 HS25071234-26 HS25071234-27 HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518492 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 18:35**
Client ID: Run ID: **FID-15_518492** SeqNo: **8959987** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2265*	*0.0100*	*0.25*	*0*	*90.6*	*70 - 130*				

LCS Sample ID: **LCS-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:17**
Client ID: Run ID: **FID-15_518492** SeqNo: **8959985** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0965	0.0200	0.1	0	96.5	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2059*	*0.0100*	*0.25*	*0*	*82.4*	*70 - 130*				

LCSD Sample ID: **LCSD-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:56**
Client ID: Run ID: **FID-15_518492** SeqNo: **8959986** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0814	0.0200	0.1	0	81.4	70 - 130	0.0965	17	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2506*	*0.0100*	*0.25*	*0*	*100*	*70 - 130*	*0.2059*	*19.6*	*25*	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **26-Jul-2025 10:43**
Client ID: Run ID: **FID-15_518492** SeqNo: **8960010** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08195	0.0200	0.1	0	82.0	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2462*	*0.0100*	*0.25*	*0*	*98.5*	*70 - 130*				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **26-Jul-2025 11:21**
Client ID: Run ID: **FID-15_518492** SeqNo: **8960011** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0785	0.0200	0.1	0	78.5	70 - 130	0.08195	4.3	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2343*	*0.0100*	*0.25*	*0*	*93.7*	*70 - 130*	*0.2462*	*4.94*	*25*	

The following samples were analyzed in this batch:

HS25071234-20	HS25071234-22	HS25071234-23	HS25071234-24
HS25071234-25	HS25071234-26	HS25071234-27	HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230984 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-230984** Units: **mg/L** Analysis Date: **28-Jul-2025 16:00**
Client ID: Run ID: **ICPMS06_518505** SeqNo: **8961129** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00400								
Calcium	U	0.500								
Chromium	U	0.00400								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00200								
Potassium	U	0.200								
Sodium	0.02022	0.200								J
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00400								

LCS Sample ID: **LCS-230984** Units: **mg/L** Analysis Date: **28-Jul-2025 16:02**
Client ID: Run ID: **ICPMS06_518505** SeqNo: **8961130** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04532	0.00200	0.05	0	90.6	80 - 120				
Barium	0.04488	0.00400	0.05	0	89.8	80 - 120				
Calcium	4.788	0.500	5	0	95.8	80 - 120				
Chromium	0.04562	0.00400	0.05	0	91.2	80 - 120				
Iron	4.757	0.200	5	0	95.1	80 - 120				
Lead	0.04318	0.00200	0.05	0	86.4	80 - 120				
Magnesium	4.785	0.200	5	0	95.7	80 - 120				
Manganese	0.04628	0.00500	0.05	0	92.6	80 - 120				
Nickel	0.04632	0.00200	0.05	0	92.6	80 - 120				
Potassium	4.788	0.200	5	0	95.8	80 - 120				
Sodium	4.775	0.200	5	0	95.5	80 - 120				
Strontium	0.09467	0.00500	0.1	0	94.7	80 - 120				
Vanadium	0.04547	0.00500	0.05	0	90.9	80 - 120				
Zinc	0.04751	0.00400	0.05	0	95.0	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230984 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25071285-10MS** Units: **mg/L** Analysis Date: **28-Jul-2025 16:12**
Client ID: Run ID: **ICPMS06_518505** SeqNo: **8961134** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04787	0.00200	0.05	0.001496	92.7	80 - 120				
Barium	0.1921	0.00400	0.05	0.1384	107	80 - 120				
Calcium	23.46	0.500	5	17.77	114	80 - 120				
Chromium	0.04751	0.00400	0.05	0.001712	91.6	80 - 120				
Iron	5.27	0.200	5	0.4495	96.4	80 - 120				
Lead	0.04381	0.00200	0.05	0.000155	87.3	80 - 120				
Magnesium	19.16	0.200	5	13.87	106	80 - 120				
Manganese	0.08601	0.00500	0.05	0.0388	94.4	80 - 120				
Nickel	0.04504	0.00200	0.05	0.000593	88.9	80 - 120				
Potassium	29.98	0.200	5	24.42	111	80 - 120				O
Sodium	100.8	0.200	5	93	156	80 - 120				SO
Strontium	0.7019	0.00500	0.1	0.601	101	80 - 120				O
Vanadium	0.04667	0.00500	0.05	0.000568	92.2	80 - 120				
Zinc	0.08302	0.00400	0.05	0.03573	94.6	80 - 120				

MSD Sample ID: **HS25071285-10MSD** Units: **mg/L** Analysis Date: **28-Jul-2025 16:14**
Client ID: Run ID: **ICPMS06_518505** SeqNo: **8961135** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.0476	0.00200	0.05	0.001496	92.2	80 - 120	0.04787	0.564	20	
Barium	0.1906	0.00400	0.05	0.1384	104	80 - 120	0.1921	0.782	20	
Calcium	23.15	0.500	5	17.77	108	80 - 120	23.46	1.34	20	
Chromium	0.04724	0.00400	0.05	0.001712	91.1	80 - 120	0.04751	0.572	20	
Iron	5.217	0.200	5	0.4495	95.3	80 - 120	5.27	1.01	20	
Lead	0.04376	0.00200	0.05	0.000155	87.2	80 - 120	0.04381	0.112	20	
Magnesium	18.94	0.200	5	13.87	101	80 - 120	19.16	1.19	20	
Manganese	0.08619	0.00500	0.05	0.0388	94.8	80 - 120	0.08601	0.211	20	
Nickel	0.04532	0.00200	0.05	0.000593	89.5	80 - 120	0.04504	0.622	20	
Potassium	29.81	0.200	5	24.42	108	80 - 120	29.98	0.565	20	O
Sodium	99.89	0.200	5	93	138	80 - 120	100.8	0.897	20	SO
Strontium	0.7102	0.00500	0.1	0.601	109	80 - 120	0.7019	1.17	20	O
Vanadium	0.04664	0.00500	0.05	0.000568	92.1	80 - 120	0.04667	0.0729	20	
Zinc	0.08312	0.00400	0.05	0.03573	94.8	80 - 120	0.08302	0.125	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230984 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25071285-10PDS** Units: **mg/L** Analysis Date: **28-Jul-2025 16:16**
Client ID: Run ID: **ICPMS06_518505** SeqNo: **8961136** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09619	0.00200	0.1	0.001496	94.7	75 - 125				
Barium	0.2359	0.00400	0.1	0.1384	97.5	75 - 125				
Calcium	27.25	0.500	10	17.77	94.8	75 - 125				
Chromium	0.09428	0.00400	0.1	0.001712	92.6	75 - 125				
Iron	10.11	0.200	10	0.4495	96.6	75 - 125				
Lead	0.0916	0.00200	0.1	0.000155	91.4	75 - 125				
Magnesium	23.39	0.200	10	13.87	95.2	75 - 125				
Manganese	0.1316	0.00500	0.1	0.0388	92.8	75 - 125				
Nickel	0.09061	0.00200	0.1	0.000593	90.0	75 - 125				
Potassium	33.82	0.200	10	24.42	94.0	75 - 125				
Sodium	100.3	0.200	10	93	73.1	75 - 125				SO
Strontium	0.698	0.00500	0.1	0.601	97.0	75 - 125				O
Vanadium	0.09365	0.00500	0.1	0.000568	93.1	75 - 125				
Zinc	0.1299	0.00400	0.1	0.03573	94.2	75 - 125				

SD Sample ID: **HS25071285-10SD** Units: **mg/L** Analysis Date: **28-Jul-2025 16:04**
Client ID: Run ID: **ICPMS06_518505** SeqNo: **8961131** PrepDate: **28-Jul-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.001496	0	10	
Barium	0.1388	0.0200					0.1384	0.254	10	
Calcium	17.58	2.50					17.77	1.08	10	
Chromium	U	0.0200					0.001712	0	10	
Iron	0.4811	1.00					0.4495	0	10	J
Lead	U	0.0100					0.000155	0	10	
Magnesium	14.24	1.00					13.87	2.63	10	
Manganese	0.04007	0.0250					0.0388	3.27	10	
Nickel	U	0.0100					0.000593	0	10	
Potassium	24.8	1.00					24.42	1.55	10	
Sodium	93.98	1.00					93	1.05	10	
Strontium	0.6124	0.0250					0.601	1.9	10	
Vanadium	U	0.0250					0.000568	0	10	
Zinc	0.03696	0.0200					0.03573	3.44	10	

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Environmental Resources Mgmt.
Project:	Sulphur Dome
WorkOrder:	HS25071234

QC BATCH REPORT

Batch ID: 230984 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-22	HS25071234-24	HS25071234-25
HS25071234-26	HS25071234-27		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230993 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-230993** Units: **mg/L** Analysis Date: **29-Jul-2025 10:41**
Client ID: Run ID: **ICPMS06_518593** SeqNo: **8962375** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00400								
Calcium	U	0.500								
Chromium	U	0.00400								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00200								
Potassium	U	0.200								
Sodium	U	0.200								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00400								

LCS Sample ID: **LCS-230993** Units: **mg/L** Analysis Date: **29-Jul-2025 10:43**
Client ID: Run ID: **ICPMS06_518593** SeqNo: **8962376** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04494	0.00200	0.05	0	89.9	80 - 120				
Barium	0.04485	0.00400	0.05	0	89.7	80 - 120				
Calcium	4.953	0.500	5	0	99.1	80 - 120				
Chromium	0.04462	0.00400	0.05	0	89.2	80 - 120				
Iron	4.65	0.200	5	0	93.0	80 - 120				
Lead	0.04161	0.00200	0.05	0	83.2	80 - 120				
Magnesium	4.784	0.200	5	0	95.7	80 - 120				
Manganese	0.04478	0.00500	0.05	0	89.6	80 - 120				
Nickel	0.04472	0.00200	0.05	0	89.4	80 - 120				
Potassium	4.77	0.200	5	0	95.4	80 - 120				
Sodium	4.701	0.200	5	0	94.0	80 - 120				
Strontium	0.09395	0.00500	0.1	0	94.0	80 - 120				
Vanadium	0.04482	0.00500	0.05	0	89.6	80 - 120				
Zinc	0.04634	0.00400	0.05	0	92.7	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230993 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **29-Jul-2025 10:54**
Client ID: **LDNR-26** Run ID: **ICPMS06_518593** SeqNo: **8962380** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04689	0.00200	0.05	0.001357	91.1	80 - 120				
Barium	0.4296	0.00400	0.05	0.3906	78.2	80 - 120				SO
Calcium	13.55	0.500	5	8.752	96.0	80 - 120				
Chromium	0.04645	0.00400	0.05	0.000354	92.2	80 - 120				
Iron	4.804	0.200	5	0.06017	94.9	80 - 120				
Lead	0.04232	0.00200	0.05	0.000118	84.4	80 - 120				
Magnesium	6.433	0.200	5	1.612	96.4	80 - 120				
Manganese	0.05833	0.00500	0.05	0.01263	91.4	80 - 120				
Nickel	0.04514	0.00200	0.05	0.00404	82.2	80 - 120				
Potassium	6.041	0.200	5	1.253	95.8	80 - 120				
Sodium	36.49	0.200	5	31.1	108	80 - 120				O
Strontium	0.2225	0.00500	0.1	0.1317	90.8	80 - 120				
Vanadium	0.04743	0.00500	0.05	0.001422	92.0	80 - 120				
Zinc	0.04826	0.00400	0.05	0.002317	91.9	80 - 120				

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 10:56**
Client ID: **LDNR-26** Run ID: **ICPMS06_518593** SeqNo: **8962381** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04681	0.00200	0.05	0.001357	90.9	80 - 120	0.04689	0.173	20	
Barium	0.4381	0.00400	0.05	0.3906	95.0	80 - 120	0.4296	1.94	20	O
Calcium	13.44	0.500	5	8.752	93.7	80 - 120	13.55	0.842	20	
Chromium	0.04622	0.00400	0.05	0.000354	91.7	80 - 120	0.04645	0.492	20	
Iron	4.741	0.200	5	0.06017	93.6	80 - 120	4.804	1.31	20	
Lead	0.04328	0.00200	0.05	0.000118	86.3	80 - 120	0.04232	2.25	20	
Magnesium	6.393	0.200	5	1.612	95.6	80 - 120	6.433	0.622	20	
Manganese	0.05821	0.00500	0.05	0.01263	91.2	80 - 120	0.05833	0.208	20	
Nickel	0.0454	0.00200	0.05	0.00404	82.7	80 - 120	0.04514	0.579	20	
Potassium	5.951	0.200	5	1.253	94.0	80 - 120	6.041	1.49	20	
Sodium	35.87	0.200	5	31.1	95.4	80 - 120	36.49	1.72	20	O
Strontium	0.2239	0.00500	0.1	0.1317	92.2	80 - 120	0.2225	0.648	20	
Vanadium	0.04693	0.00500	0.05	0.001422	91.0	80 - 120	0.04743	1.06	20	
Zinc	0.04824	0.00400	0.05	0.002317	91.8	80 - 120	0.04826	0.0477	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230993 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25071234-21PDS** Units: **mg/L** Analysis Date: **29-Jul-2025 10:58**
Client ID: **LDNR-26** Run ID: **ICPMS06_518593** SeqNo: **8962382** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0943	0.00200	0.1	0.001357	92.9	75 - 125				
Barium	0.4788	0.00400	0.1	0.3906	88.2	75 - 125				
Calcium	18.31	0.500	10	8.752	95.6	75 - 125				
Chromium	0.09355	0.00400	0.1	0.000354	93.2	75 - 125				
Iron	9.659	0.200	10	0.06017	96.0	75 - 125				
Lead	0.09034	0.00200	0.1	0.000118	90.2	75 - 125				
Magnesium	11.42	0.200	10	1.612	98.1	75 - 125				
Manganese	0.104	0.00500	0.1	0.01263	91.4	75 - 125				
Nickel	0.092	0.00200	0.1	0.00404	88.0	75 - 125				
Potassium	10.95	0.200	10	1.253	97.0	75 - 125				
Sodium	40.23	0.200	10	31.1	91.3	75 - 125				
Strontium	0.2356	0.00500	0.1	0.1317	104	75 - 125				
Vanadium	0.09416	0.00500	0.1	0.001422	92.7	75 - 125				
Zinc	0.09715	0.00400	0.1	0.002317	94.8	75 - 125				

SD Sample ID: **HS25071234-21SD** Units: **mg/L** Analysis Date: **29-Jul-2025 10:45**
Client ID: **LDNR-26** Run ID: **ICPMS06_518593** SeqNo: **8962377** PrepDate: **28-Jul-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Arsenic	U	0.0100					0.001357	0	10	
Barium	0.3764	0.0200					0.3906	3.62	10	
Calcium	8.914	2.50					8.752	1.85	10	
Chromium	U	0.0200					0.000354	0	10	
Iron	0.06669	1.00					0.06017	0	10	J
Lead	U	0.0100					0.000118	0	10	
Magnesium	1.741	1.00					1.612	8.03	10	
Manganese	0.01363	0.0250					0.01263	0	10	J
Nickel	0.004115	0.0100					0.00404	0	10	J
Potassium	1.318	1.00					1.253	5.2	10	
Sodium	31.13	1.00					31.1	0.103	10	
Strontium	0.1307	0.0250					0.1317	0.805	10	
Vanadium	U	0.0250					0.001422	0	10	
Zinc	U	0.0200					0.002317	0	10	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230993 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

The following samples were analyzed in this batch:

HS25071234-06	HS25071234-07	HS25071234-08	HS25071234-09
HS25071234-11	HS25071234-12	HS25071234-13	HS25071234-14
HS25071234-15	HS25071234-16	HS25071234-17	HS25071234-18
HS25071234-19	HS25071234-20	HS25071234-21	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 230997 (0) **Instrument: HG05** **Method: DISSOLVED MERCURY BY SW7470A (DISSOLVED)**

MBLK Sample ID: **MBLKF1-230812** Units: **mg/L** Analysis Date: **28-Jul-2025 18:04**
Client ID: Run ID: **HG05_518536** SeqNo: **8961240** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

MBLK Sample ID: **MBLK-230997** Units: **mg/L** Analysis Date: **28-Jul-2025 17:59**
Client ID: Run ID: **HG05_518536** SeqNo: **8961238** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-230997** Units: **mg/L** Analysis Date: **28-Jul-2025 18:03**
Client ID: Run ID: **HG05_518536** SeqNo: **8961239** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00521	0.000200	0.005	0	104	80 - 120				

MS Sample ID: **HS25071234-10MS** Units: **mg/L** Analysis Date: **28-Jul-2025 18:10**
Client ID: **LDNR-1B (Field Filtered)** Run ID: **HG05_518536** SeqNo: **8961243** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00535	0.000200	0.005	0.000008	107	80 - 120				

MSD Sample ID: **HS25071234-10MSD** Units: **mg/L** Analysis Date: **28-Jul-2025 18:11**
Client ID: **LDNR-1B (Field Filtered)** Run ID: **HG05_518536** SeqNo: **8961244** PrepDate: **28-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00544	0.000200	0.005	0.000008	109	80 - 120	0.00535	1.67	20	

The following samples were analyzed in this batch: HS25071234-10 HS25071234-23 HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 231016 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY SW6020A (DISSOLVED)**

MBLK Sample ID: **MBLK-231016** Units: **mg/L** Analysis Date: **29-Jul-2025 13:21**
Client ID: Run ID: **ICPMS06_518593** SeqNo: **8962598** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00400								
Calcium	U	0.500								
Chromium	U	0.00400								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00200								
Potassium	U	0.200								
Sodium	U	0.200								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00400								

LCS Sample ID: **LCS-231016** Units: **mg/L** Analysis Date: **29-Jul-2025 12:25**
Client ID: Run ID: **ICPMS06_518593** SeqNo: **8962545** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04424	0.00200	0.05	0	88.5	80 - 120				
Barium	0.04419	0.00400	0.05	0	88.4	80 - 120				
Calcium	4.915	0.500	5	0	98.3	80 - 120				
Chromium	0.04505	0.00400	0.05	0	90.1	80 - 120				
Iron	4.632	0.200	5	0	92.6	80 - 120				
Lead	0.04185	0.00200	0.05	0	83.7	80 - 120				
Magnesium	4.864	0.200	5	0	97.3	80 - 120				
Manganese	0.04541	0.00500	0.05	0	90.8	80 - 120				
Nickel	0.04495	0.00200	0.05	0	89.9	80 - 120				
Potassium	4.742	0.200	5	0	94.8	80 - 120				
Sodium	4.783	0.200	5	0	95.7	80 - 120				
Strontium	0.0953	0.00500	0.1	0	95.3	80 - 120				
Vanadium	0.04504	0.00500	0.05	0	90.1	80 - 120				
Zinc	0.04797	0.00400	0.05	0	95.9	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 231016 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY SW6020A (DISSOLVED)**

MS Sample ID: **HS25071234-28MS** Units: **mg/L** Analysis Date: **29-Jul-2025 12:31**
Client ID: **LDNR 14 (FIELD FILTER)** Run ID: **ICPMS06_518593** SeqNo: **8962548** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04777	0.00200	0.05	0.001086	93.4	75 - 125				
Barium	0.2228	0.00400	0.05	0.1827	80.1	75 - 125				
Calcium	66.59	0.500	5	60.4	124	75 - 125				O
Chromium	0.04637	0.00400	0.05	0	92.7	75 - 125				
Iron	4.809	0.200	5	0.02481	95.7	75 - 125				
Lead	0.04413	0.00200	0.05	0	88.3	75 - 125				
Magnesium	17.57	0.200	5	12.61	99.1	75 - 125				
Manganese	0.4908	0.00500	0.05	0.4439	93.8	75 - 125				O
Nickel	0.04529	0.00200	0.05	0.000618	89.4	75 - 125				
Potassium	6.687	0.200	5	1.7	99.7	75 - 125				
Sodium	182	0.200	5	175.6	129	75 - 125				SEO
Strontium	0.5766	0.00500	0.1	0.5031	73.5	75 - 125				SO
Vanadium	0.04814	0.00500	0.05	0.001265	93.7	75 - 125				
Zinc	0.04945	0.00400	0.05	0.004068	90.8	75 - 125				

MSD Sample ID: **HS25071234-28MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 12:33**
Client ID: **LDNR 14 (FIELD FILTER)** Run ID: **ICPMS06_518593** SeqNo: **8962549** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04777	0.00200	0.05	0.001086	93.4	75 - 125	0.04777	0.0126	20	
Barium	0.2257	0.00400	0.05	0.1827	86.0	75 - 125	0.2228	1.3	20	
Calcium	65.92	0.500	5	60.4	110	75 - 125	66.59	1.01	20	O
Chromium	0.04598	0.00400	0.05	0	92.0	75 - 125	0.04637	0.838	20	
Iron	4.817	0.200	5	0.02481	95.8	75 - 125	4.809	0.161	20	
Lead	0.04481	0.00200	0.05	0	89.6	75 - 125	0.04413	1.53	20	
Magnesium	17.53	0.200	5	12.61	98.4	75 - 125	17.57	0.198	20	
Manganese	0.4902	0.00500	0.05	0.4439	92.7	75 - 125	0.4908	0.114	20	O
Nickel	0.04537	0.00200	0.05	0.000618	89.5	75 - 125	0.04529	0.172	20	
Potassium	6.549	0.200	5	1.7	97.0	75 - 125	6.687	2.08	20	
Sodium	183.1	0.200	5	175.6	151	75 - 125	182	0.602	20	SEO
Strontium	0.5849	0.00500	0.1	0.5031	81.8	75 - 125	0.5766	1.44	20	O
Vanadium	0.0472	0.00500	0.05	0.001265	91.9	75 - 125	0.04814	1.96	20	
Zinc	0.04931	0.00400	0.05	0.004068	90.5	75 - 125	0.04945	0.284	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 231016 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY SW6020A (DISSOLVED)**

PDS Sample ID: **HS25071234-28PDS** Units: **mg/L** Analysis Date: **29-Jul-2025 12:35**
Client ID: **LDNR 14 (FIELD FILTER)** Run ID: **ICPMS06_518593** SeqNo: **8962550** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.09309	0.00200	0.1	0.001086	92.0	75 - 125				
Barium	0.2604	0.00400	0.1	0.1827	77.7	75 - 125				
Calcium	66.24	0.500	10	60.4	58.4	75 - 125				SO
Chromium	0.09211	0.00400	0.1	0.000127	92.0	75 - 125				
Iron	9.437	0.200	10	0.02481	94.1	75 - 125				
Lead	0.09037	0.00200	0.1	0.000066	90.3	75 - 125				
Magnesium	21.31	0.200	10	12.61	87.0	75 - 125				
Manganese	0.5071	0.00500	0.1	0.4439	63.2	75 - 125				SO
Nickel	0.08841	0.00200	0.1	0.000618	87.8	75 - 125				
Potassium	11.02	0.200	10	1.7	93.2	75 - 125				
Sodium	174.1	0.200	10	175.6	-14.8	75 - 125				SO
Strontium	0.5755	0.00500	0.1	0.5031	72.4	75 - 125				SO
Vanadium	0.09354	0.00500	0.1	0.001265	92.3	75 - 125				
Zinc	0.09443	0.00400	0.1	0.004068	90.4	75 - 125				

SD Sample ID: **HS25071234-28SD** Units: **mg/L** Analysis Date: **29-Jul-2025 12:29**
Client ID: **LDNR 14 (FIELD FILTER)** Run ID: **ICPMS06_518593** SeqNo: **8962547** PrepDate: **29-Jul-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.001086	0	10	
Barium	0.1755	0.0200					0.1827	3.95	10	
Calcium	63.13	2.50					60.4	4.51	10	
Chromium	U	0.0200					0.000127	0	10	
Iron	U	1.00					0.02481	0	10	
Lead	U	0.0100					0.000066	0	10	
Magnesium	12.82	1.00					12.61	1.59	10	
Manganese	0.4541	0.0250					0.4439	2.29	10	
Nickel	U	0.0100					0.000618	0	10	
Potassium	1.748	1.00					1.7	2.84	10	
Sodium	176.7	1.00					175.6	0.631	10	
Strontium	0.516	0.0250					0.5031	2.56	10	
Vanadium	U	0.0250					0.001265	0	10	
Zinc	U	0.0200					0.004068	0	10	

The following samples were analyzed in this batch: HS25071234-10 HS25071234-23 HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 231032 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-231032** Units: **mg/L** Analysis Date: **29-Jul-2025 13:29**
Client ID: Run ID: **HG05_518625** SeqNo: **8962999** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U		0.000200								

LCS Sample ID: **LCS-231032** Units: **mg/L** Analysis Date: **29-Jul-2025 13:31**
Client ID: Run ID: **HG05_518625** SeqNo: **8963000** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00531	0.000200	0.005	0	106	80 - 120				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **29-Jul-2025 13:40**
Client ID: Run ID: **HG05_518625** SeqNo: **8963055** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.000200	0.005	0.000001	101	75 - 125				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 13:41**
Client ID: Run ID: **HG05_518625** SeqNo: **8963056** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00538	0.000200	0.005	0.000001	108	75 - 125	0.00506	6.13	20	

The following samples were analyzed in this batch: HS25071234-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 231033 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-231033** Units: **mg/L** Analysis Date: **29-Jul-2025 14:12**
Client ID: Run ID: **HG05_518625** SeqNo: **8963023** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U		0.000200								

LCS Sample ID: **LCS-231033** Units: **mg/L** Analysis Date: **29-Jul-2025 14:14**
Client ID: Run ID: **HG05_518625** SeqNo: **8963024** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00526	0.000200	0.005	0	105	80 - 120				

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **29-Jul-2025 15:01**
Client ID: **LDNR-26** Run ID: **HG05_518625** SeqNo: **8963048** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0053	0.000200	0.005	-0.000001	106	75 - 125				

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 15:02**
Client ID: **LDNR-26** Run ID: **HG05_518625** SeqNo: **8963049** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00569	0.000200	0.005	-0.000001	114	75 - 125	0.0053	7.1	20	

The following samples were analyzed in this batch:

HS25071234-02	HS25071234-03	HS25071234-04	HS25071234-05
HS25071234-06	HS25071234-07	HS25071234-08	HS25071234-09
HS25071234-11	HS25071234-12	HS25071234-13	HS25071234-14
HS25071234-15	HS25071234-16	HS25071234-17	HS25071234-18
HS25071234-19	HS25071234-20	HS25071234-21	HS25071234-22

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: 231046 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-231046** Units: **mg/L** Analysis Date: **29-Jul-2025 16:18**
Client ID: Run ID: **HG05_518625** SeqNo: **8963204** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-231046** Units: **mg/L** Analysis Date: **29-Jul-2025 16:19**
Client ID: Run ID: **HG05_518625** SeqNo: **8963205** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0048	0.000200	0.005	0	96.0	80 - 120				

MS Sample ID: **HS25071234-24MS** Units: **mg/L** Analysis Date: **29-Jul-2025 16:28**
Client ID: **LDNR-06** Run ID: **HG05_518625** SeqNo: **8963210** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00488	0.000200	0.005	0.000009	97.4	75 - 125				

MSD Sample ID: **HS25071234-24MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 16:30**
Client ID: **LDNR-06** Run ID: **HG05_518625** SeqNo: **8963211** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00496	0.000200	0.005	0.000009	99.0	75 - 125	0.00488	1.63	20	

The following samples were analyzed in this batch: HS25071234-24 HS25071234-25 HS25071234-26 HS25071234-27

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518348 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 22:58**
Client ID: Run ID: **VOA13_518348** SeqNo: **8956389** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.048*	*0.0010*	*0.05*	*0*	*96.2*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.047*	*0.0010*	*0.05*	*0*	*94.3*	*77 - 113*				
Surr: Dibromofluoromethane	*0.049*	*0.0010*	*0.05*	*0*	*98.4*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*97.7*	*81 - 120*				

LCS Sample ID: **LCS-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 21:49**
Client ID: Run ID: **VOA13_518348** SeqNo: **8956394** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	93.8	74 - 120				
Ethylbenzene	0.022	0.0020	0.02	0	111	77 - 117				
m,p-Xylene	0.044	0.0040	0.04	0	111	77 - 122				
o-Xylene	0.022	0.0020	0.02	0	110	75 - 119				
Toluene	0.020	0.0020	0.02	0	100	77 - 118				
Xylenes, Total	0.067	0.0060	0.06	0	111	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*98.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.046*	*0.0010*	*0.05*	*0*	*91.4*	*77 - 113*				
Surr: Dibromofluoromethane	*0.049*	*0.0010*	*0.05*	*0*	*98.7*	*73 - 126*				
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518348 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 22:12**
Client ID: Run ID: **VOA13_518348** SeqNo: **8956388** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	96.2	74 - 120	0.01877	2.48	20	
Ethylbenzene	0.021	0.0020	0.02	0	106	77 - 117	0.02217	4.08	20	
m,p-Xylene	0.044	0.0040	0.04	0	109	77 - 122	0.04445	1.73	20	
o-Xylene	0.021	0.0020	0.02	0	107	75 - 119	0.02210	3.64	20	
Toluene	0.020	0.0020	0.02	0	99.4	77 - 118	0.02001	0.677	20	
Xylenes, Total	0.065	0.0060	0.06	0	108	75 - 122	0.06654	2.36	20	
Surr: 1,2-Dichloroethane-d4	*0.052*	*0.0010*	*0.05*	*0*	*103*	*70 - 123*	*0.04942*	*4.31*	*20*	
Surr: 4-Bromofluorobenzene	*0.046*	*0.0010*	*0.05*	*0*	*92.5*	*77 - 113*	*0.04572*	*1.09*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*100*	*73 - 126*	*0.04936*	*1.37*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.6*	*81 - 120*	*0.05090*	*2.16*	*20*	

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **24-Jul-2025 23:44**
Client ID: **LDNR-26** Run ID: **VOA13_518348** SeqNo: **8956391** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.022	0.0010	0.02	0	112	70 - 127				
Ethylbenzene	0.026	0.0020	0.02	0	132	70 - 124				S
m,p-Xylene	0.053	0.0040	0.04	0	133	70 - 130				S
o-Xylene	0.026	0.0020	0.02	0	132	70 - 124				S
Toluene	0.024	0.0020	0.02	0	121	70 - 123				
Xylenes, Total	0.080	0.0060	0.06	0	133	70 - 130				S
Surr: 1,2-Dichloroethane-d4	*0.050*	*0.0010*	*0.05*	*0*	*101*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*0.047*	*0.0010*	*0.05*	*0*	*94.4*	*77 - 113*				
Surr: Dibromofluoromethane	*0.048*	*0.0010*	*0.05*	*0*	*97.0*	*77 - 123*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*82 - 127*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518348 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 00:07**
Client ID: **LDNR-26** Run ID: **VOA13_518348** SeqNo: **8956397** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.023	0.0010	0.02	0	113	70 - 127	0.02239	1.36	20	
Ethylbenzene	0.028	0.0020	0.02	0	141	70 - 124	0.02648	6.14	20	S
m,p-Xylene	0.056	0.0040	0.04	0	140	70 - 130	0.05311	5.53	20	S
o-Xylene	0.028	0.0020	0.02	0	140	70 - 124	0.02642	5.54	20	S
Toluene	0.025	0.0020	0.02	0	124	70 - 123	0.02427	1.86	20	S
Xylenes, Total	0.084	0.0060	0.06	0	140	70 - 130	0.07953	5.54	20	S
Surr: 1,2-Dichloroethane-d4	*0.050*	*0.0010*	*0.05*	*0*	*99.1*	*70 - 126*	*0.05045*	*1.78*	*20*	
Surr: 4-Bromofluorobenzene	*0.047*	*0.0010*	*0.05*	*0*	*94.5*	*77 - 113*	*0.04719*	*0.176*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*99.7*	*77 - 123*	*0.04850*	*2.73*	*20*	
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*97.7*	*82 - 127*	*0.05038*	*3.1*	*20*	

The following samples were analyzed in this batch:

HS25071234-10	HS25071234-11	HS25071234-12	HS25071234-13
HS25071234-14	HS25071234-15	HS25071234-16	HS25071234-17
HS25071234-18	HS25071234-19	HS25071234-20	HS25071234-21
HS25071234-22	HS25071234-23	HS25071234-24	HS25071234-25
HS25071234-26	HS25071234-27		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518364 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 20:57**
Client ID: Run ID: **VOA4_518364** SeqNo: **8956672** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*98.0*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*98.9*	*81 - 120*				

LCS Sample ID: **LCS-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 19:54**
Client ID: Run ID: **VOA4_518364** SeqNo: **8956687** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	94.2	74 - 120				
Ethylbenzene	0.019	0.0020	0.02	0	94.1	77 - 117				
m,p-Xylene	0.039	0.0040	0.04	0	97.0	77 - 122				
o-Xylene	0.020	0.0020	0.02	0	97.7	75 - 119				
Toluene	0.019	0.0020	0.02	0	95.6	77 - 118				
Xylenes, Total	0.058	0.0060	0.06	0	97.2	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*97.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*99.5*	*77 - 113*				
Surr: Dibromofluoromethane	*0.049*	*0.0010*	*0.05*	*0*	*98.1*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.8*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518364 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250724** Units: **mg/L** Analysis Date: **24-Jul-2025 20:15**
Client ID: Run ID: **VOA4_518364** SeqNo: **8956688** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	98.6	74 - 120	0.01884	4.53	20	
Ethylbenzene	0.020	0.0020	0.02	0	101	77 - 117	0.01882	7.16	20	
m,p-Xylene	0.041	0.0040	0.04	0	102	77 - 122	0.03880	4.79	20	
o-Xylene	0.020	0.0020	0.02	0	102	75 - 119	0.01954	4.65	20	
Toluene	0.020	0.0020	0.02	0	101	77 - 118	0.01913	5.22	20	
Xylenes, Total	0.061	0.0060	0.06	0	102	75 - 122	0.05834	4.74	20	
Surr: 1,2-Dichloroethane-d4	*0.050*	*0.0010*	*0.05*	*0*	*101*	*70 - 123*	*0.04868*	*3.28*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*	*0.04974*	*1.07*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*99.7*	*73 - 126*	*0.04904*	*1.62*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100*	*81 - 120*	*0.04992*	*0.344*	*20*	

The following samples were analyzed in this batch: HS25071234-29 HS25071234-30 HS25071234-31 HS25071234-32 HS25071234-33 HS25071234-34 HS25071234-35 HS25071234-36 HS25071234-37

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518465 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250726** Units: **mg/L** Analysis Date: **26-Jul-2025 09:00**
Client ID: Run ID: **VOA4_518465** SeqNo: **8959386** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*97.6*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*99.4*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*				

LCS Sample ID: **LCS-250726** Units: **mg/L** Analysis Date: **26-Jul-2025 07:57**
Client ID: Run ID: **VOA4_518465** SeqNo: **8959384** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.021	0.0010	0.02	0	107	74 - 120				
Ethylbenzene	0.021	0.0020	0.02	0	106	77 - 117				
m,p-Xylene	0.043	0.0040	0.04	0	106	77 - 122				
o-Xylene	0.021	0.0020	0.02	0	106	75 - 119				
Toluene	0.022	0.0020	0.02	0	108	77 - 118				
Xylenes, Total	0.064	0.0060	0.06	0	106	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*97.5*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*99.5*	*77 - 113*				
Surr: Dibromofluoromethane	*0.049*	*0.0010*	*0.05*	*0*	*97.9*	*73 - 126*				
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518465 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250726** Units: **mg/L** Analysis Date: **26-Jul-2025 08:18**
Client ID: Run ID: **VOA4_518465** SeqNo: **8959385** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.021	0.0010	0.02	0	106	74 - 120	0.02148	0.912	20	
Ethylbenzene	0.021	0.0020	0.02	0	103	77 - 117	0.02112	2.26	20	
m,p-Xylene	0.042	0.0040	0.04	0	105	77 - 122	0.04256	1.19	20	
o-Xylene	0.021	0.0020	0.02	0	104	75 - 119	0.02127	2.04	20	
Toluene	0.021	0.0020	0.02	0	105	77 - 118	0.02156	2.36	20	
Xylenes, Total	0.063	0.0060	0.06	0	105	75 - 122	0.06384	1.47	20	
Surr: 1,2-Dichloroethane-d4	*0.050*	*0.0010*	*0.05*	*0*	*99.0*	*70 - 123*	*0.04873*	*1.55*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*99.9*	*77 - 113*	*0.04977*	*0.363*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*99.8*	*73 - 126*	*0.04896*	*1.95*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.0*	*81 - 120*	*0.05094*	*2.86*	*20*	

The following samples were analyzed in this batch: HS25071234-01 HS25071234-02 HS25071234-03 HS25071234-04 HS25071234-05 HS25071234-06 HS25071234-07 HS25071234-08 HS25071234-09

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518531 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 11:20**
Client ID: Run ID: **VOA4_518531** SeqNo: **8960774** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*98.6*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*104*	*77 - 113*				
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*102*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.5*	*81 - 120*				

LCS Sample ID: **LCS-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 10:18**
Client ID: Run ID: **VOA4_518531** SeqNo: **8960772** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	102	74 - 120				
Ethylbenzene	0.020	0.0020	0.02	0	100	77 - 117				
m,p-Xylene	0.041	0.0040	0.04	0	102	77 - 122				
o-Xylene	0.020	0.0020	0.02	0	101	75 - 119				
Toluene	0.020	0.0020	0.02	0	101	77 - 118				
Xylenes, Total	0.061	0.0060	0.06	0	102	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*102*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.049*	*0.0010*	*0.05*	*0*	*98.2*	*77 - 113*				
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*102*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518531 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 10:39**
Client ID: Run ID: **VOA4_518531** SeqNo: **8960773** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	102	74 - 120	0.02037	0.0245	20	
Ethylbenzene	0.020	0.0020	0.02	0	99.0	77 - 117	0.02003	1.19	20	
m,p-Xylene	0.040	0.0040	0.04	0	101	77 - 122	0.04090	1.13	20	
o-Xylene	0.020	0.0020	0.02	0	98.4	75 - 119	0.02014	2.31	20	
Toluene	0.020	0.0020	0.02	0	101	77 - 118	0.02026	0.153	20	
Xylenes, Total	0.060	0.0060	0.06	0	100	75 - 122	0.06104	1.52	20	
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*98.2*	*70 - 123*	*0.05092*	*3.6*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*	*0.04910*	*2.34*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*100*	*73 - 126*	*0.05076*	*1.36*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*	*0.05045*	*0.173*	*20*	

MS Sample ID: **HS25071360-01MS** Units: **mg/L** Analysis Date: **28-Jul-2025 14:49**
Client ID: Run ID: **VOA4_518531** SeqNo: **8960781** PrepDate: DF: **50000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	1200	50	1000	0	121	70 - 127				
Ethylbenzene	1200	100	1000	0	116	70 - 124				
m,p-Xylene	2400	200	2000	0	118	70 - 130				
o-Xylene	1200	100	1000	0	117	70 - 124				
Toluene	1200	100	1000	0	120	70 - 123				
Xylenes, Total	3500	300	3000	0	118	70 - 130				
Surr: 1,2-Dichloroethane-d4	*2500*	*50*	*2500*	*0*	*101*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*2500*	*50*	*2500*	*0*	*99.0*	*77 - 113*				
Surr: Dibromofluoromethane	*2500*	*50*	*2500*	*0*	*102*	*77 - 123*				
Surr: Toluene-d8	*2500*	*50*	*2500*	*0*	*100*	*82 - 127*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518531 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MSD Sample ID: **HS25071360-01MSD** Units: **mg/L** Analysis Date: **28-Jul-2025 15:10**
Client ID: Run ID: **VOA4_518531** SeqNo: **8960840** PrepDate: DF: **50000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	1100	50	1000	0	112	70 - 127	1207	7.4	20	
Ethylbenzene	1100	100	1000	0	108	70 - 124	1162	7.2	20	
m,p-Xylene	2200	200	2000	0	109	70 - 130	2367	8.04	20	
o-Xylene	1100	100	1000	0	107	70 - 124	1171	9.27	20	
Toluene	1100	100	1000	0	109	70 - 123	1202	10.1	20	
Xylenes, Total	3300	300	3000	0	108	70 - 130	3538	8.44	20	
Surr: 1,2-Dichloroethane-d4	*2600*	*50*	*2500*	*0*	*103*	*70 - 126*	*2521*	*1.67*	*20*	
Surr: 4-Bromofluorobenzene	*2500*	*50*	*2500*	*0*	*99.0*	*77 - 113*	*2474*	*0.0768*	*20*	
Surr: Dibromofluoromethane	*2600*	*50*	*2500*	*0*	*102*	*77 - 123*	*2545*	*0.22*	*20*	
Surr: Toluene-d8	*2500*	*50*	*2500*	*0*	*98.8*	*82 - 127*	*2510*	*1.57*	*20*	

The following samples were analyzed in this batch: HS25071234-28 HS25071234-38

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518270 (0) **Instrument: Skalar 03** **Method: PH BY SM4500H+ B**

DUP Sample ID: **HS25071042-01DUP** Units: **pH Units** Analysis Date: **23-Jul-2025 18:55**
Client ID: Run ID: **Skalar 03_518270** SeqNo: **8954947** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.94	1.00					7.92	0.252	10	
Temp Deg C @pH	21.9	0					21.7	0.917	10	

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: **R518271 (0)** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25071234-21DUP** Units: **pH Units** Analysis Date: **23-Jul-2025 23:51**
Client ID: **LDNR-26** Run ID: **Skalar 03_518271** SeqNo: **8954965** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.94	1.00					7.94	0	10	
Temp Deg C @pH	22.6	0					22.5	0.443	10	

The following samples were analyzed in this batch:

HS25071234-16	HS25071234-17	HS25071234-18	HS25071234-19
HS25071234-20	HS25071234-21	HS25071234-22	HS25071234-23
HS25071234-24	HS25071234-25	HS25071234-26	HS25071234-27
HS25071234-28			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518277 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-07.23.2025** Units: **mg/L** Analysis Date: **23-Jul-2025 18:27**
Client ID: Run ID: **Skalar 03_518277** SeqNo: **8955030** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-07.23.2025** Units: **mg/L** Analysis Date: **23-Jul-2025 18:33**
Client ID: Run ID: **Skalar 03_518277** SeqNo: **8955031** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	981.8	5.00	1000	0	98.2	85 - 115				

LCSD Sample ID: **LCSD-07.23.2025** Units: **mg/L** Analysis Date: **23-Jul-2025 18:39**
Client ID: Run ID: **Skalar 03_518277** SeqNo: **8955032** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	985.6	5.00	1000	0	98.6	85 - 115	981.8	0.386	20	

DUP Sample ID: **HS25071042-01DUP** Units: **mg/L** Analysis Date: **23-Jul-2025 18:55**
Client ID: Run ID: **Skalar 03_518277** SeqNo: **8955035** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	188	5.00					189.5	0.795	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518279 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-07.23.2025** Units: **mg/L** Analysis Date: **23-Jul-2025 23:03**
Client ID: Run ID: **Skalar 03_518279** SeqNo: **8955054** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-07.23.2025** Units: **mg/L** Analysis Date: **23-Jul-2025 23:09**
Client ID: Run ID: **Skalar 03_518279** SeqNo: **8955055** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	1001	5.00	1000	0	100	85 - 115				

LCSD Sample ID: **LCSD-07.23.2025** Units: **mg/L** Analysis Date: **23-Jul-2025 23:15**
Client ID: Run ID: **Skalar 03_518279** SeqNo: **8955056** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	1001	5.00	1000	0	100	85 - 115	1001	0.0799	20	

DUP Sample ID: **HS25071234-21DUP** Units: **mg/L** Analysis Date: **23-Jul-2025 23:51**
Client ID: **LDNR-26** Run ID: **Skalar 03_518279** SeqNo: **8955063** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	37.5	5.00					37.9	1.06	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	

The following samples were analyzed in this batch:

HS25071234-16	HS25071234-17	HS25071234-18	HS25071234-19
HS25071234-20	HS25071234-21	HS25071234-22	HS25071234-23
HS25071234-24	HS25071234-25	HS25071234-26	HS25071234-27
HS25071234-28			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518366 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R518366** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518366** SeqNo: **8956738** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R518366** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518366** SeqNo: **8956737** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.88	5.00	25	0	91.5	85 - 115				

LCSD Sample ID: **LCSD-R518366** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518366** SeqNo: **8956736** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.68	5.00	25	0	90.7	85 - 115	22.88	0.878	20	

MS Sample ID: **HS25071234-16MS** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: **SL-03 TOP** Run ID: **WetChem_HS_518366** SeqNo: **8956739** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.08	5.00	25	-0.32	89.6	80 - 120				

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	HS25071234-16
HS25071234-17	HS25071234-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518367 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R518367** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518367** SeqNo: **8956760** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R518367** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518367** SeqNo: **8956759** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.31	1.00	26.56	0	91.5	80 - 120				

LCSD Sample ID: **LCSD-R518367** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518367** SeqNo: **8956758** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.1	1.00	26.56	0	90.7	80 - 120	24.31	0.878	20	

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	HS25071234-16
HS25071234-17	HS25071234-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518434 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **25-Jul-2025 08:08**
Client ID: Run ID: **ICS-Integrion_518434** SeqNo: **8958125** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **25-Jul-2025 08:20**
Client ID: Run ID: **ICS-Integrion_518434** SeqNo: **8958126** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.84	0.100	4	0	96.0	80 - 120				
Chloride	19.61	0.500	20	0	98.0	80 - 120				
Sulfate	19.66	0.500	20	0	98.3	80 - 120				

MS Sample ID: **HS25071234-09MS** Units: **mg/L** Analysis Date: **25-Jul-2025 11:21**
Client ID: **019-582** Run ID: **ICS-Integrion_518434** SeqNo: **8958153** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.86	0.100	2	0	93.0	80 - 120				
Chloride	35.72	0.500	10	25.96	97.7	80 - 120				
Sulfate	13.48	0.500	10	3.389	101	80 - 120				

MSD Sample ID: **HS25071234-09MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 11:27**
Client ID: **019-582** Run ID: **ICS-Integrion_518434** SeqNo: **8958154** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.845	0.100	2	0	92.2	80 - 120	1.86	0.794	20	
Chloride	35.22	0.500	10	25.96	92.6	80 - 120	35.72	1.42	20	
Sulfate	13.26	0.500	10	3.389	98.7	80 - 120	13.48	1.64	20	

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-11	HS25071234-12
HS25071234-13	HS25071234-14	HS25071234-15	HS25071234-16
HS25071234-17	HS25071234-18	HS25071234-19	HS25071234-20

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518436 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **25-Jul-2025 15:50**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958181** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **25-Jul-2025 16:02**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958182** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.913	0.100	4	0	97.8	80 - 120				
Chloride	19.66	0.500	20	0	98.3	80 - 120				
Sulfate	19.71	0.500	20	0	98.6	80 - 120				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 18:39**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958205** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	17.44	1.00	20	0	87.2	80 - 120				
Chloride	304.1	5.00	100	201.5	103	80 - 120				
Sulfate	166	5.00	100	67.5	98.5	80 - 120				

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **25-Jul-2025 16:13**
Client ID: **LDNR-26** Run ID: **ICS-Integrion_518436** SeqNo: **8958184** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.746	0.100	2	0	87.3	80 - 120				
Chloride	43.26	0.500	10	33.98	92.8	80 - 120				
Sulfate	27.82	0.500	10	18.52	93.0	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518436 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 18:45**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958206** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	17.43	1.00	20	0	87.1	80 - 120	17.44	0.109	20	
Chloride	300	5.00	100	201.5	98.5	80 - 120	304.1	1.35	20	
Sulfate	163.9	5.00	100	67.5	96.4	80 - 120	166	1.22	20	

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 16:19**
Client ID: **LDNR-26** Run ID: **ICS-Integrion_518436** SeqNo: **8958185** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.772	0.100	2	0	88.6	80 - 120	1.746	1.47	20	
Chloride	43.35	0.500	10	33.98	93.7	80 - 120	43.26	0.203	20	
Sulfate	27.83	0.500	10	18.52	93.1	80 - 120	27.82	0.0539	20	

The following samples were analyzed in this batch:

HS25071234-21	HS25071234-22	HS25071234-23	HS25071234-24
HS25071234-25	HS25071234-26	HS25071234-27	HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518451 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: Run ID: **Balance1_518451** SeqNo: **8958739** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: Run ID: **Balance1_518451** SeqNo: **8958738** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	974	10.0	1000	0	97.4	85 - 115				

DUP Sample ID: **HS25071343-10DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: Run ID: **Balance1_518451** SeqNo: **8958735** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	2260	10.0					2320	2.62	20	

DUP Sample ID: **HS25071096-01DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: Run ID: **Balance1_518451** SeqNo: **8958717** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1680	10.0					1600	4.88	20	

The following samples were analyzed in this batch:

HS25071234-01	HS25071234-02	HS25071234-03	HS25071234-04
HS25071234-11	HS25071234-12	HS25071234-13	HS25071234-14
HS25071234-15	HS25071234-16	HS25071234-17	HS25071234-18
HS25071234-19	HS25071234-20		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518452 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 11:00**
Client ID: Run ID: **Balance1_518452** SeqNo: **8958771** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 11:00**
Client ID: Run ID: **Balance1_518452** SeqNo: **8958770** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1032	10.0	1000	0	103	85 - 115				

DUP Sample ID: **HS25071333-02DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 11:00**
Client ID: Run ID: **Balance1_518452** SeqNo: **8958767** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	4340	10.0					4260	1.86	20	

DUP Sample ID: **HS25071234-21DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 11:00**
Client ID: **LDNR-26** Run ID: **Balance1_518452** SeqNo: **8958755** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	158	10.0					148	6.54	20	

The following samples were analyzed in this batch:

HS25071234-05	HS25071234-06	HS25071234-07	HS25071234-08
HS25071234-09	HS25071234-10	HS25071234-21	HS25071234-22
HS25071234-23	HS25071234-24	HS25071234-25	HS25071234-26
HS25071234-27	HS25071234-28		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518521 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R518521** Units: **mg/L** Analysis Date: **28-Jul-2025 14:00**
Client ID: Run ID: **WetChem_HS_518521** SeqNo: **8960614** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R518521** Units: **mg/L** Analysis Date: **28-Jul-2025 14:00**
Client ID: Run ID: **WetChem_HS_518521** SeqNo: **8960613** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	23.08	5.00	25	0	92.3	85 - 115				

LCSD Sample ID: **LCSD-R518521** Units: **mg/L** Analysis Date: **28-Jul-2025 14:00**
Client ID: Run ID: **WetChem_HS_518521** SeqNo: **8960612** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.88	5.00	25	0	91.5	85 - 115	23.08	0.87	20	

MS Sample ID: **HS25071099-02MS** Units: **mg/L** Analysis Date: **28-Jul-2025 14:00**
Client ID: Run ID: **WetChem_HS_518521** SeqNo: **8960615** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.28	5.00	25	-0.72	92.0	80 - 120				

The following samples were analyzed in this batch: HS25071234-19 HS25071234-20

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518546 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R518546** Units: **mg/L** Analysis Date: **28-Jul-2025 14:00**
Client ID: Run ID: **WetChem_HS_518546** SeqNo: **8961158** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R518546** Units: **mg/L** Analysis Date: **28-Jul-2025 14:00**
Client ID: Run ID: **WetChem_HS_518546** SeqNo: **8961157** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.52	1.00	26.56	0	92.3	80 - 120				

LCSD Sample ID: **LCSD-R518546** Units: **mg/L** Analysis Date: **28-Jul-2025 14:00**
Client ID: Run ID: **WetChem_HS_518546** SeqNo: **8961156** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.31	1.00	26.56	0	91.5	80 - 120	24.52	0.87	20	

The following samples were analyzed in this batch: HS25071234-19 HS25071234-20

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518588 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F

MBLK Sample ID: **MBLK-R518588** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518588** SeqNo: **8962161** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R518588** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518588** SeqNo: **8962160** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.52	5.00	25	0	90.1	85 - 115				

LCSD Sample ID: **LCSD-R518588** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518588** SeqNo: **8962159** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.32	5.00	25	0	89.3	85 - 115	22.52	0.892	20	

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: **LDNR-26** Run ID: **WetChem_HS_518588** SeqNo: **8962163** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.12	5.00	25	-0.48	90.4	80 - 120				

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: **LDNR-26** Run ID: **WetChem_HS_518588** SeqNo: **8962162** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.32	5.00	25	-0.48	91.2	80 - 120	22.12	0.9	20	

The following samples were analyzed in this batch:

HS25071234-21	HS25071234-22	HS25071234-23	HS25071234-24
HS25071234-25	HS25071234-26	HS25071234-27	HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071234

QC BATCH REPORT

Batch ID: R518589 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R518589** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518589** SeqNo: **8962179** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R518589** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518589** SeqNo: **8962178** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.93	1.00	26.56	0	90.1	80 - 120				

LCSD Sample ID: **LCSD-R518589** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518589** SeqNo: **8962177** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.72	1.00	26.56	0	89.3	80 - 120	23.93	0.892	20	

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: **LDNR-26** Run ID: **WetChem_HS_518589** SeqNo: **8962181** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.5	1.00	26.56	-0.51	90.4	80 - 120				

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 10:30**
Client ID: **LDNR-26** Run ID: **WetChem_HS_518589** SeqNo: **8962180** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.72	1.00	26.56	-0.51	91.2	80 - 120	23.5	0.9	20	

The following samples were analyzed in this batch:

HS25071234-21	HS25071234-22	HS25071234-23	HS25071234-24
HS25071234-25	HS25071234-26	HS25071234-27	HS25071234-28

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25071234**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C24-00224 / 2024	31-Jul-2025
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oklahoma	2023-140	31-Aug-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	T104704231 TX-C24-00130	30-Apr-2026
Utah	TX026932023-14	31-Jul-2025

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25071234 **Date/Time Received:** **23-Jul-2025 12:30**

Client Name: ERMSW-HOU **Received by:** **Kaycee Rogers**

Completed By: */S/ Kaycee Rogers* 23-Jul-2025 18:56 **Reviewed by:** */S/ Rochelle Davis* 24-Jul-2025 09:44

eSignature Date/Time eSignature Date/Time

Matrices: **W** Carrier name: **ALS Courier**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	4 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:345399, 345390, 345295, 345400
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	4.1UC/4.1C, 4.9UC/4.9C, 3.5UC/3.5C, 4.2UC/4.2C, 1.8UC/1.8C, 2.1UC/2.1C	IR 34
Cooler(s)/Kit(s):	53353, 54098, 54112, 54107, 54980, 50129, 54101, BLUE,54099,54100	
Date/Time sample(s) sent to storage:	07/23/2025 18:56	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Received 2 sets of Trip Blank not on Chain of Custody, logged in but placed on hold CG-061125-267 and CG-061125-271. Did not receive Trip Blank CG-061125-287. Remaining cooler temps, 3.7UC/3.7C, 4.9UC/4.9C, 3.1UC/3.1C, 2.7UC/2.7C

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 4

COC ID: 345399

HS25071234

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	
Work Order		Project Number	
Company Name		Bill To Company	
Send Report To		Invoice Attn	
Address		Address	
City/State/Zip		City/State/Zip	
Phone		Phone	
Fax		Fax	
e-Mail Address		e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1-200	07/21/25	13:50	W	1,2,4,8	11	X	X	X	X	X	X	X	X	X	X	
2	MW-1-800	07/21/25	16:15	W	1,2,4,8	11	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3	FB-072125	07/21/25	16:50	W	1,2,4,8	11	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4	MW-1-700	7/22/25	9:00	W			X	X	X	X	X	X	X	X	X	X	
5	MW-2-200	↓	10:50	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6	MW-2-700		13:00														
7	019-995		16:05														
8	FB-072225		16:15														
9	019-582		16:40														
10	LONR-13 (Field 0.45 um filtered)		15:40														

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☒

Results Due Date:

Relinquished by: Amy Donaldson — Date: 72325 — Time: 730 — Received by:

Relinquished by: — Date: 7.23.25 — Time: 1230 — Received by (Laboratory):

Logged by (Laboratory): — Date: — Time: — Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 4

COC ID: 345390

HS25071234

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name		A	
Work Order		Project Number		B	
Company Name		Bill To Company		C	
Send Report To		Invoice Attn		D	
Address		Address		E	
				F	
City/State/Zip		City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SL-05 batt	7/21/25	1235	GW	1,2,4,8	11											
2	SL-05 Top		1255														
3	SL-04 batt		1320														
4	SL-04 Top		1335														
5	SL-03 batt		1525														
6	SL-03 Top		1535														
7	SL-02 batt		1600														
8	SL-02 Top		1615														
9	SL-01 batt		1630														
10	SL-01 Top	7/21/25	1645	GW	1,2,4,8	11											

Sampler(s) Please Print & Sign: Marcus Smith MS

Shipment Method:

Required Turnaround Time: (Check Box) ☐ 5D ☐ ☐ ☐

Results Due Date:

Relinquished by:	Date: 72325	Time: 930	Received by:	
Relinquished by: DL	Date: 7-23-25	Time: 1230	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

COC ID: 345395

HS25071234

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	[illegible]	Project Name	[illegible]	A	[illegible]
Work Order		Project Number		B	[illegible]
Company Name	Environmental Resources Mgmt	Bill To Company	Environmental Resources Mgmt	C	[illegible]
Send Report To	Scott Hines	Invoice Attn	Accounts Payable	D	[illegible]
Address	CityCentre Four 840 W. Sam Houston Pkwy. Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy. Suite 3	E	[illegible]
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	F	[illegible]
Phone	(281) 600-1000	Phone	(281) 600-1000	G	[illegible]
Fax	(281) 600-1001	Fax	(281) 600-1001	H	[illegible]
e-Mail Address	scott.hines@erm.com	e-Mail Address	AccountsPayable@erm.com	I	[illegible]
				J	[illegible]

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LDNR-26	7/22/25	0800	GW	1,2,4,8	11											
2	MS-LDNR-26		0800														
3	MSD-LDNR-26		0800														
4	SW-DUP-2		00.00														
5	LDNR-03 (field filter)		1040														
6	LDNR-06		1235														
7	LDNR-24		1300														
8	LDNR-04		1415														
9	LDNR-17		1440														
10	LDNR-14 (field filter)	7/22/25	1510	GW	1,2,4,8	11											

Sampler(s) Please Print & Sign: Marcus Smith

Shipment Method:

Required Turnaround Time: (Check Box)

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[illegible]	7/23/25	930	
Relinquished by:	Date:	Time:	Received by (Laboratory):
DS	7.23.25	1230	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 4 of 4

COC ID: 345400

HS25071234

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information		
Purchase Order		Project Name		A
Work Order		Project Number		B
Company Name		Bill To Company		C
Send Report To		Invoice Attn		D
Address		Address		E / F
City/State/Zip		City/State/Zip		G
Phone		Phone		H
Fax		Fax		I
e-Mail Address		e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CG-061125-269	X	X	W	1	2	X										
2	CG-061125-265																
3	CG-061125-263																
4	CG-061125-256																
5	CG-061125-195																
6	CG-061125-268																
7	CG-061125-258																
8	CG-061125-270																
9	CG-061125-287																
10																	

Sampler(s) Please Print & Sign: Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box)

Results Due Date:

Relinquished by: Amy Donastorg — Date: 7/25/25 — Time: 930 — Received by:

Relinquished by: D.S — Date: 7-23-25 — Time: 1230 — Received by (Laboratory):

Logged by (Laboratory): — Date: — Time: — Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 28, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25071296**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 5 sample(s) on Jul 24, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: DAYNA.FISHER
Alexis Dorenbosch

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25071296

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25071296-01	MW-3-500 (75)	Water		23-Jul-2025 15:50	24-Jul-2025 08:40	☐
HS25071296-02	MW-3-500 (90)	Water		23-Jul-2025 16:40	24-Jul-2025 08:40	☐
HS25071296-03	MW-3-500 (90 DUP)	Water		23-Jul-2025 16:40	24-Jul-2025 08:40	☐
HS25071296-04	MW-3-500 (106)	Water		23-Jul-2025 17:30	24-Jul-2025 08:40	☐
HS25071296-05	Trip Blank	Water	CG-061125-330	23-Jul-2025 00:00	24-Jul-2025 08:40	☑

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071296

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

• Log In Notes:

Trip Blanks not on Chain of Custody, placed on hold.

WetChemistry by Method SW9056

Batch ID: R518484

Sample ID: MW-3-500 (75) (HS25071296-01MS)

• The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride)

• The recovery of the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) associated with this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS/MSD may be due to sample matrix interference. (Sulfate)

WetChemistry by Method E376.1

Batch ID: R518464

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: R518462

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R518433

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500 (75)
Collection Date: 23-Jul-2025 15:50

ANALYTICAL REPORT
WorkOrder:HS25071296
Lab ID:HS25071296-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**27.3**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**138**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 18:30
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 18:30
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**25.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Chloride	**2,010**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:22
Sulfate	**727**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500 (90)
Collection Date: 23-Jul-2025 16:40

ANALYTICAL REPORT
WorkOrder:HS25071296
Lab ID:HS25071296-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**18.8**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**136**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 18:35
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 18:35
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**17.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Chloride	**1,990**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:40
Sulfate	**659**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500 (90 DUP)
Collection Date: 23-Jul-2025 16:40

ANALYTICAL REPORT
WorkOrder:HS25071296
Lab ID:HS25071296-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**27.3**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**141**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 18:41
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 18:41
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**25.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Chloride	**1,830**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:45
Sulfate	**614**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500 (106)
Collection Date: 23-Jul-2025 17:30

ANALYTICAL REPORT
WorkOrder:HS25071296
Lab ID:HS25071296-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**31.5**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**142**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 18:47
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 18:47
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**29.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Chloride	**1,880**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:51
Sulfate	**637**		**10.0**	**25.0**	**mg/L**	50	26-Jul-2025 15:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071296

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518433 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25071296-01	MW-3-500 (75)	23 Jul 2025 15:50			25 Jul 2025 18:30	1
HS25071296-02	MW-3-500 (90)	23 Jul 2025 16:40			25 Jul 2025 18:35	1
HS25071296-03	MW-3-500 (90 DUP)	23 Jul 2025 16:40			25 Jul 2025 18:41	1
HS25071296-04	MW-3-500 (106)	23 Jul 2025 17:30			25 Jul 2025 18:47	1
Batch ID: R518462 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25071296-01	MW-3-500 (75)	23 Jul 2025 15:50			25 Jul 2025 11:00	1
HS25071296-02	MW-3-500 (90)	23 Jul 2025 16:40			25 Jul 2025 11:00	1
HS25071296-03	MW-3-500 (90 DUP)	23 Jul 2025 16:40			25 Jul 2025 11:00	1
HS25071296-04	MW-3-500 (106)	23 Jul 2025 17:30			25 Jul 2025 11:00	1
Batch ID: R518464 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25071296-01	MW-3-500 (75)	23 Jul 2025 15:50			25 Jul 2025 11:00	1
HS25071296-02	MW-3-500 (90)	23 Jul 2025 16:40			25 Jul 2025 11:00	1
HS25071296-03	MW-3-500 (90 DUP)	23 Jul 2025 16:40			25 Jul 2025 11:00	1
HS25071296-04	MW-3-500 (106)	23 Jul 2025 17:30			25 Jul 2025 11:00	1
Batch ID: R518484 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25071296-01	MW-3-500 (75)	23 Jul 2025 15:50			26 Jul 2025 15:22	50
HS25071296-02	MW-3-500 (90)	23 Jul 2025 16:40			26 Jul 2025 15:40	50
HS25071296-03	MW-3-500 (90 DUP)	23 Jul 2025 16:40			26 Jul 2025 15:45	50
HS25071296-04	MW-3-500 (106)	23 Jul 2025 17:30			26 Jul 2025 15:51	50

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071296

QC BATCH REPORT

Batch ID: R518433 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-07.25.2025** Units: **mg/L** Analysis Date: **25-Jul-2025 18:12**
Client ID: Run ID: **Skalar 03_518433** SeqNo: **8958099** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-07.25.2025** Units: **mg/L** Analysis Date: **25-Jul-2025 18:18**
Client ID: Run ID: **Skalar 03_518433** SeqNo: **8958100** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	968.6	5.00	1000	0	96.9	85 - 115				

LCSD Sample ID: **LCSD-07.25.2025** Units: **mg/L** Analysis Date: **25-Jul-2025 18:24**
Client ID: Run ID: **Skalar 03_518433** SeqNo: **8958101** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	966.2	5.00	1000	0	96.6	85 - 115	968.6	0.248	20	

DUP Sample ID: **HS25071343-01DUP** Units: **mg/L** Analysis Date: **25-Jul-2025 18:58**
Client ID: Run ID: **Skalar 03_518433** SeqNo: **8958107** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	149.4	5.00					148.8	0.402	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	

The following samples were analyzed in this batch: HS25071296-01 HS25071296-02 HS25071296-03 HS25071296-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071296

QC BATCH REPORT

Batch ID: R518462 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R518462** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959331** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R518462** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959330** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.88	5.00	25	0	91.5	85 - 115				

LCSD Sample ID: **LCSD-R518462** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959329** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.68	5.00	25	0	90.7	85 - 115	22.88	0.878	20	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959328** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.68	5.00	25	0.68	88.0	80 - 120				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959327** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.48	5.00	25	0.68	87.2	80 - 120	22.68	0.886	20	

The following samples were analyzed in this batch: HS25071296-01 HS25071296-02 HS25071296-03 HS25071296-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071296

QC BATCH REPORT

Batch ID: R518464 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R518464** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959407** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R518464** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959406** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.31	1.00	26.56	0	91.5	80 - 120				

LCSD Sample ID: **LCSD-R518464** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959405** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.1	1.00	26.56	0	90.7	80 - 120	24.31	0.878	20	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959409** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.1	1.00	26.56	0.7225	88.0	80 - 120				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959408** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.88	1.00	26.56	0.7225	87.2	80 - 120	24.1	0.886	20	

The following samples were analyzed in this batch: HS25071296-01 HS25071296-02 HS25071296-03 HS25071296-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071296

QC BATCH REPORT

Batch ID: R518484 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **26-Jul-2025 16:20**
Client ID: Run ID: **ICS-Integrion_518484** SeqNo: **8959812** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **26-Jul-2025 16:32**
Client ID: Run ID: **ICS-Integrion_518484** SeqNo: **8959813** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.67	0.500	20	0	98.4	80 - 120				
Sulfate	19.63	0.500	20	0	98.1	80 - 120				

MS Sample ID: **HS25071296-01MS** Units: **mg/L** Analysis Date: **26-Jul-2025 15:28**
Client ID: **MW-3-500 (75)** Run ID: **ICS-Integrion_518484** SeqNo: **8959805** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2236	25.0	500	2011	45.0	80 - 120				SO
Sulfate	1025	25.0	500	726.9	59.7	80 - 120				S

MSD Sample ID: **HS25071296-01MSD** Units: **mg/L** Analysis Date: **26-Jul-2025 15:34**
Client ID: **MW-3-500 (75)** Run ID: **ICS-Integrion_518484** SeqNo: **8959806** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2219	25.0	500	2011	41.6	80 - 120	2236	0.761	20	SO
Sulfate	1017	25.0	500	726.9	58.0	80 - 120	1025	0.806	20	S

The following samples were analyzed in this batch: HS25071296-01 HS25071296-02 HS25071296-03 HS25071296-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25071296**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C24-00224 / 2024	31-Jul-2025
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oklahoma	2023-140	31-Aug-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	T104704231 TX-C24-00130	30-Apr-2026
Utah	TX026932023-14	31-Jul-2025

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25071296 **Date/Time Received:** **24-Jul-2025 08:40**

Client Name: ERMSW-HOU **Received by:** **Chelsea Rogers**

Completed By:	/S/ Chelsea Rogers	24-Jul-2025 15:43	**Reviewed by:**	/S/ Beverly Mustafa	24-Jul-2025 16:51
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:345144
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.3UC/2.3C	IR 34
Cooler(s)/Kit(s):	24680	
Date/Time sample(s) sent to storage:	07/24/2025 15:43	

Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Trip Blanks not on Chain of Custody, placed on hold.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 345144

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order	07-7496	Project Name	Sulphur Dome	A 9056_anions_W (Cl SO4)
Work Order		Project Number		B ALK_W (CO3 HCO3)
Company Name	Environmental Resources Mgmt	Bill To Company	Environmental Resources Mgmt.	C H2S_W (H2S)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D SULFD_45605 F (Sulfide)
Address	CityCentre Four 840 W Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W Sam Houston Pkwy. Suite 6	E F
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G
Phone	(281) 600-1009	Phone	(281) 600-1009	H
Fax	(281) 600-1001	Fax	(281) 600-1001	I
e-Mail Address	scott.himes@erm.com	e-Mail Address	USMSAAccountsPayable@erm.com	J

HS25071296

Environmental Resources Mgmt.

Sulphur Dome

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Ho
1	MW-3-500 (75)	7/23/25	1550	W	7	2	X	X	X	X							
2	MW-3-500 (90)		1640				X	X	X	X							
3	MW-3-500 ~~(106)~~ (90 Dup)		1640				X	X	X	X							
4	MW-3-500 (106)		1730				X	X	X	X							
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Scott Himes

Shipment Method: Drop off

Required Turnaround Time: (Check Box) [X] 10 Business Days [ ] 5 Business [ ] 2 Day [ ] 1 Day

Results Due Date:

Relinquished by: | Date: 7/24/25 | Time: 1055

Relinquished by: | Date: | Time:

Received by:

Received by (Laboratory): 07/24/25 10:55

Checked by (Laboratory):

Logged by (Laboratory): | Date: | Time:

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.
24680	2.3

QC Package: (Check One Box Below) [X]

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

tn77 1F0.0

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environn

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 29, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25071343**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 16 sample(s) on Jul 24, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25071343

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25071343-01	LDNR-05	GW		23-Jul-2025 09:00	24-Jul-2025 10:54	☐
HS25071343-02	LDNR-12	GW		23-Jul-2025 12:35	24-Jul-2025 10:54	☐
HS25071343-03	LDNR-07	GW		23-Jul-2025 13:00	24-Jul-2025 10:54	☐
HS25071343-04	LDNR-08	GW		23-Jul-2025 13:20	24-Jul-2025 10:54	☐
HS25071343-05	LDNR-25	GW		23-Jul-2025 14:20	24-Jul-2025 10:54	☐
HS25071343-06	LDNR-09	GW		23-Jul-2025 15:30	24-Jul-2025 10:54	☐
HS25071343-07	LDNR-19	GW		23-Jul-2025 15:55	24-Jul-2025 10:54	☐
HS25071343-08	SW-DUP-01	Water		23-Jul-2025 00:00	24-Jul-2025 10:54	☐
HS25071343-09	FB-072325	Water		23-Jul-2025 16:00	24-Jul-2025 10:54	☐
HS25071343-10	MW-3-500	GW		23-Jul-2025 10:30	24-Jul-2025 10:54	☐
HS25071343-11	MW-3-200	GW		23-Jul-2025 12:30	24-Jul-2025 10:54	☐
HS25071343-12	019-1603	GW		23-Jul-2025 08:10	24-Jul-2025 10:54	☐
HS25071343-13	CG-061125-236	Water	CG-061125-236	23-Jul-2025 00:00	24-Jul-2025 10:54	☐
HS25071343-14	CG-061125-266	Water	CG-061125-266	23-Jul-2025 00:00	24-Jul-2025 10:54	☐
HS25071343-15	CG-061125-215	Water	CG-061125-215	23-Jul-2025 00:00	24-Jul-2025 10:54	☐
HS25071343-16	CG-061125-272	Water	CG-061125-272	23-Jul-2025 00:00	24-Jul-2025 10:54	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071343

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

• Log In Notes:

FB-072325- chains states qty 11 received qty 10

GC Semivolatiles by Method MA EPH

Batch ID: 230873

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R518490,R518492,R518601

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R518463

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 231032

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 230923

Sample ID: LDNR-05 (HS25071343-01MS)

• The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Calcium, Manganese, Sodium.

WetChemistry by Method SM4500 S2-F

Batch ID: R518462

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R518491

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071343

WetChemistry by Method E376.1

Batch ID: R518464

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R518450,R518451

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R518436

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R518433

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-05
Collection Date: 23-Jul-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-01
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 00:39
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 00:39
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 00:39
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 00:39
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 00:39
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 00:39
Surr: 1,2-Dichloroethane-d4	*97.9*			*70-126*	*%REC*	*1*	*26-Jul-2025 00:39*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 00:39*
Surr: Dibromofluoromethane	*99.6*			*77-123*	*%REC*	*1*	*26-Jul-2025 00:39*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*26-Jul-2025 00:39*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 02:19
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 02:19
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 02:19
Surr: 2,5-Dibromotoluene (Aliphatic)	*99.3*			*70-130*	*%REC*	*1*	*26-Jul-2025 02:19*
Surr: 2,5-Dibromotoluene (Aromatic)	*93.8*			*70-130*	*%REC*	*1*	*26-Jul-2025 02:19*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 19:09
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 19:09
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	25-Jul-2025 19:09
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	25-Jul-2025 19:09
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	25-Jul-2025 19:09
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	25-Jul-2025 19:09
Aromatics >C21 - C35	**0.0269**	J	**0.0250**	**0.100**	**mg/L**	1	25-Jul-2025 19:09
Surr: 1-Chlorooctadecane	*71.3*			*40-140*	*%REC*	*1*	*25-Jul-2025 19:09*
Surr: 2-Bromonaphthalene	*73.4*			*40-140*	*%REC*	*1*	*25-Jul-2025 19:09*
Surr: 2-Fluorobiphenyl	*81.5*			*40-140*	*%REC*	*1*	*25-Jul-2025 19:09*
Surr: o-Terphenyl	*67.7*			*40-140*	*%REC*	*1*	*25-Jul-2025 19:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-05
Collection Date: 23-Jul-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-01
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.000957**	J	**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 11:41
Barium	**0.196**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 11:41
Calcium	**63.3**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 11:41
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 11:41
Iron	**0.122**	J	**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 11:41
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 11:41
Magnesium	**12.8**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 11:41
Manganese	**2.06**		**0.0140**	**0.100**	**mg/L**	20	27-Jul-2025 13:36
Nickel	**0.00156**	J	**0.000600**	**0.00200**	**mg/L**	1	27-Jul-2025 11:41
Potassium	**2.46**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 11:41
Sodium	**123**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 11:41
Strontium	**0.481**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 11:41
Vanadium	**0.000805**	J	**0.000600**	**0.00500**	**mg/L**	1	27-Jul-2025 11:41
Zinc	**0.00410**		**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 11:41
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:38
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.722**	J	**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**728**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**149**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 18:52
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 18:52
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.76**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 18:28
Chloride	**201**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 18:34
Sulfate	**71.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 18:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-12
Collection Date: 23-Jul-2025 12:35

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-02
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 01:42
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 01:42
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 01:42
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 01:42
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 01:42
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 01:42
Surr: 1,2-Dichloroethane-d4	*99.1*			*70-126*	*%REC*	*1*	*26-Jul-2025 01:42*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 01:42*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*26-Jul-2025 01:42*
Surr: Toluene-d8	*99.7*			*82-127*	*%REC*	*1*	*26-Jul-2025 01:42*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 02:58
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 02:58
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 02:58
Surr: 2,5-Dibromotoluene (Aliphatic)	*93.7*			*70-130*	*%REC*	*1*	*26-Jul-2025 02:58*
Surr: 2,5-Dibromotoluene (Aromatic)	*88.7*			*70-130*	*%REC*	*1*	*26-Jul-2025 02:58*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:23
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:23
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:23
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:23
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:23
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:23
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:23
Surr: 1-Chlorooctadecane	*56.0*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:23*
Surr: 2-Bromonaphthalene	*83.4*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:23*
Surr: 2-Fluorobiphenyl	*81.6*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:23*
Surr: o-Terphenyl	*62.8*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:23*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-12
Collection Date: 23-Jul-2025 12:35

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-02
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.00122**	J	**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:04
Barium	**0.147**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:04
Calcium	**48.5**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:04
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:04
Iron	**0.0460**	J	**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:04
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:04
Magnesium	**10.9**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:04
Manganese	**0.298**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:04
Nickel	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:04
Potassium	**1.56**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:04
Sodium	**147**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:04
Strontium	**0.439**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:04
Vanadium	**0.00153**	J	**0.000600**	**0.00500**	**mg/L**	1	27-Jul-2025 12:04
Zinc	**0.00548**		**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:04
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:43
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.722**	J	**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**664**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**81.4**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:03
Alkalinity, Carbonate (As CaCO3)	**6.00**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:03
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.46**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**22.1**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 18:51
Chloride	**260**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 19:09
Sulfate	**87.3**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 18:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-07
Collection Date: 23-Jul-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-03
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 02:03
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 02:03
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 02:03
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 02:03
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 02:03
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 02:03
Surr: 1,2-Dichloroethane-d4	*97.9*			*70-126*	*%REC*	*1*	*26-Jul-2025 02:03*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 02:03*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*26-Jul-2025 02:03*
Surr: Toluene-d8	*99.4*			*82-127*	*%REC*	*1*	*26-Jul-2025 02:03*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 03:37
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 03:37
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 03:37
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.3*			*70-130*	*%REC*	*1*	*26-Jul-2025 03:37*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.5*			*70-130*	*%REC*	*1*	*26-Jul-2025 03:37*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:52
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:52
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:52
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:52
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:52
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:52
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 01:52
Surr: 1-Chlorooctadecane	*64.7*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:52*
Surr: 2-Bromonaphthalene	*80.5*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:52*
Surr: 2-Fluorobiphenyl	*80.3*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:52*
Surr: o-Terphenyl	*61.4*			*40-140*	*%REC*	*1*	*26-Jul-2025 01:52*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-07
Collection Date: 23-Jul-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-03
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.000970**	J	**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:06
Barium	**0.149**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:06
Calcium	**59.0**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:06
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:06
Iron	**0.0231**	J	**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:06
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:06
Magnesium	**12.5**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:06
Manganese	**1.03**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:06
Nickel	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:06
Potassium	**2.23**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:06
Sodium	**136**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:06
Strontium	**0.454**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:06
Vanadium	U		0.000600	0.00500	mg/L	1	27-Jul-2025 12:06
Zinc	**0.00231**	J	**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:06
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:45
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**728**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**121**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:21
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 19:21
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.19**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 18:57
Chloride	**222**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 19:15
Sulfate	**83.2**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 18:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-08
Collection Date: 23-Jul-2025 13:20

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-04
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 02:23
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 02:23
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 02:23
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 02:23
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 02:23
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 02:23
Surr: 1,2-Dichloroethane-d4	*98.4*			*70-126*	*%REC*	*1*	*26-Jul-2025 02:23*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*26-Jul-2025 02:23*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Jul-2025 02:23*
Surr: Toluene-d8	*97.2*			*82-127*	*%REC*	*1*	*26-Jul-2025 02:23*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 04:15
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 04:15
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 04:15
Surr: 2,5-Dibromotoluene (Aliphatic)	*94.0*			*70-130*	*%REC*	*1*	*26-Jul-2025 04:15*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.1*			*70-130*	*%REC*	*1*	*26-Jul-2025 04:15*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:20
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:20
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:20
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:20
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:20
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:20
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:20
Surr: 1-Chlorooctadecane	*66.3*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:20*
Surr: 2-Bromonaphthalene	*80.0*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:20*
Surr: 2-Fluorobiphenyl	*81.1*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:20*
Surr: o-Terphenyl	*61.7*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:20*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-08
Collection Date: 23-Jul-2025 13:20

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-04
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.00110**	J	**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:08
Barium	**0.115**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:08
Calcium	**51.0**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:08
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:08
Iron	**0.0326**	J	**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:08
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:08
Magnesium	**13.0**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:08
Manganese	**0.283**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:08
Nickel	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:08
Potassium	**1.58**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:08
Sodium	**173**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:08
Strontium	**0.453**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:08
Vanadium	**0.000694**	J	**0.000600**	**0.00500**	**mg/L**	1	27-Jul-2025 12:08
Zinc	**0.00201**	J	**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:08
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:50
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**12.4**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**836**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**87.2**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:27
Alkalinity, Carbonate (As CaCO3)	**18.2**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:27
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**11.7**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.95**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 19:03
Chloride	**302**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 19:20
Sulfate	**81.5**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 19:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-25
Collection Date: 23-Jul-2025 14:20

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-05
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 02:44
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 02:44
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 02:44
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 02:44
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 02:44
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 02:44
Surr: 1,2-Dichloroethane-d4	*98.6*			*70-126*	*%REC*	*1*	*26-Jul-2025 02:44*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*26-Jul-2025 02:44*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Jul-2025 02:44*
Surr: Toluene-d8	*97.5*			*82-127*	*%REC*	*1*	*26-Jul-2025 02:44*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 04:54
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 04:54
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 04:54
Surr: 2,5-Dibromotoluene (Aliphatic)	*106*			*70-130*	*%REC*	*1*	*26-Jul-2025 04:54*
Surr: 2,5-Dibromotoluene (Aromatic)	*101*			*70-130*	*%REC*	*1*	*26-Jul-2025 04:54*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:49
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:49
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:49
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:49
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:49
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:49
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 02:49
Surr: 1-Chlorooctadecane	*57.3*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:49*
Surr: 2-Bromonaphthalene	*75.8*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:49*
Surr: 2-Fluorobiphenyl	*75.0*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:49*
Surr: o-Terphenyl	*53.0*			*40-140*	*%REC*	*1*	*26-Jul-2025 02:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-25
Collection Date: 23-Jul-2025 14:20

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-05
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.00126**	J	**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:10
Barium	**0.241**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:10
Calcium	**62.4**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:10
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:10
Iron	**0.0272**	J	**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:10
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:10
Magnesium	**12.7**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:10
Manganese	**1.70**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:10
Nickel	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:10
Potassium	**1.74**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:10
Sodium	**175**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:10
Strontium	**0.524**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:10
Vanadium	**0.000850**	J	**0.000600**	**0.00500**	**mg/L**	1	27-Jul-2025 12:10
Zinc	**0.00240**	J	**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:10
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:51
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**852**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**125**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:32
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 19:32
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.71**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 19:50
Chloride	**307**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 20:19
Sulfate	**82.2**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 19:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-09
Collection Date: 23-Jul-2025 15:30

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-06
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 03:05
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 03:05
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 03:05
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 03:05
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 03:05
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 03:05
Surr: 1,2-Dichloroethane-d4	*97.2*			*70-126*	*%REC*	*1*	*26-Jul-2025 03:05*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 03:05*
Surr: Dibromofluoromethane	*98.5*			*77-123*	*%REC*	*1*	*26-Jul-2025 03:05*
Surr: Toluene-d8	*99.0*			*82-127*	*%REC*	*1*	*26-Jul-2025 03:05*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 05:33
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 05:33
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 05:33
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.3*			*70-130*	*%REC*	*1*	*26-Jul-2025 05:33*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.1*			*70-130*	*%REC*	*1*	*26-Jul-2025 05:33*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 03:18
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 03:18
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 03:18
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Jul-2025 03:18
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Jul-2025 03:18
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Jul-2025 03:18
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Jul-2025 03:18
Surr: 1-Chlorooctadecane	*63.7*			*40-140*	*%REC*	*1*	*26-Jul-2025 03:18*
Surr: 2-Bromonaphthalene	*81.3*			*40-140*	*%REC*	*1*	*26-Jul-2025 03:18*
Surr: 2-Fluorobiphenyl	*79.2*			*40-140*	*%REC*	*1*	*26-Jul-2025 03:18*
Surr: o-Terphenyl	*64.4*			*40-140*	*%REC*	*1*	*26-Jul-2025 03:18*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-09
Collection Date: 23-Jul-2025 15:30

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-06
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.00490**		**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:12
Barium	**0.154**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:12
Calcium	**47.8**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:12
Chromium	**0.000780**	J	**0.000400**	**0.00400**	**mg/L**	1	27-Jul-2025 12:12
Iron	**0.976**		**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:12
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:12
Magnesium	**6.62**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:12
Manganese	**0.246**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:12
Nickel	**0.00150**	J	**0.000600**	**0.00200**	**mg/L**	1	27-Jul-2025 12:12
Potassium	**2.50**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:12
Sodium	**85.2**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:12
Strontium	**0.381**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:12
Vanadium	**0.00576**		**0.000600**	**0.00500**	**mg/L**	1	27-Jul-2025 12:12
Zinc	**0.00861**		**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:12
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:53
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**3.91**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**372**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**163**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:38
Alkalinity, Carbonate (As CaCO3)	**12.2**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:38
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**3.68**	J	**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.57**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 19:55
Chloride	**99.1**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 20:25
Sulfate	**21.7**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 19:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-19
Collection Date: 23-Jul-2025 15:55

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-07
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 03:26
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 03:26
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 03:26
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 03:26
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 03:26
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 03:26
Surr: 1,2-Dichloroethane-d4	*98.0*			*70-126*	*%REC*	*1*	*26-Jul-2025 03:26*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*26-Jul-2025 03:26*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Jul-2025 03:26*
Surr: Toluene-d8	*99.2*			*82-127*	*%REC*	*1*	*26-Jul-2025 03:26*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 06:12
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 06:12
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 06:12
Surr: 2,5-Dibromotoluene (Aliphatic)	*109*			*70-130*	*%REC*	*1*	*26-Jul-2025 06:12*
Surr: 2,5-Dibromotoluene (Aromatic)	*103*			*70-130*	*%REC*	*1*	*26-Jul-2025 06:12*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 10:41
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 10:41
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 10:41
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 10:41
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 10:41
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 10:41
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 10:41
Surr: 1-Chlorooctadecane	*76.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 10:41*
Surr: 2-Bromonaphthalene	*88.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 10:41*
Surr: 2-Fluorobiphenyl	*96.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 10:41*
Surr: o-Terphenyl	*75.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 10:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-19
Collection Date: 23-Jul-2025 15:55

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-07
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.00517**		**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:14
Barium	**0.167**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:14
Calcium	**50.5**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:14
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:14
Iron	**1.13**		**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:14
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:14
Magnesium	**6.75**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:14
Manganese	**0.303**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:14
Nickel	**0.00139**	J	**0.000600**	**0.00200**	**mg/L**	1	27-Jul-2025 12:14
Potassium	**2.56**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:14
Sodium	**86.5**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:14
Strontium	**0.381**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:14
Vanadium	**0.00715**		**0.000600**	**0.00500**	**mg/L**	1	27-Jul-2025 12:14
Zinc	**0.00683**		**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:14
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:55
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.722**	J	**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**460**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**164**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:43
Alkalinity, Carbonate (As CaCO3)	**10.8**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:43
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.52**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**22.0**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 20:01
Chloride	**97.4**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 20:31
Sulfate	**22.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 20:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SW-DUP-01
Collection Date: 23-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 03:47
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 03:47
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 03:47
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 03:47
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 03:47
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 03:47
Surr: 1,2-Dichloroethane-d4	*97.7*			*70-126*	*%REC*	*1*	*26-Jul-2025 03:47*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 03:47*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*26-Jul-2025 03:47*
Surr: Toluene-d8	*98.9*			*82-127*	*%REC*	*1*	*26-Jul-2025 03:47*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 06:50
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 06:50
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 06:50
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.0*			*70-130*	*%REC*	*1*	*26-Jul-2025 06:50*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.3*			*70-130*	*%REC*	*1*	*26-Jul-2025 06:50*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:10
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:10
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:10
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:10
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:10
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:10
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:10
Surr: 1-Chlorooctadecane	*69.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:10*
Surr: 2-Bromonaphthalene	*87.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:10*
Surr: 2-Fluorobiphenyl	*95.4*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:10*
Surr: o-Terphenyl	*76.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:10*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: SW-DUP-01
Collection Date: 23-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.000977**	J	**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:50
Barium	**0.189**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:50
Calcium	**62.4**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:50
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:50
Iron	**0.0990**	J	**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:50
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:50
Magnesium	**12.8**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:50
Manganese	**2.11**		**0.0140**	**0.100**	**mg/L**	20	27-Jul-2025 13:32
Nickel	**0.000688**	J	**0.000600**	**0.00200**	**mg/L**	1	27-Jul-2025 12:50
Potassium	**2.45**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:50
Sodium	**123**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:50
Strontium	**0.469**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:50
Vanadium	**0.000788**	J	**0.000600**	**0.00500**	**mg/L**	1	27-Jul-2025 12:50
Zinc	**0.00269**	J	**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:50
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:57
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**3.91**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**744**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**144**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:49
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 19:49
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**3.68**	J	**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.61**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 20:07
Chloride	**203**		**2.00**	**5.00**	**mg/L**	10	25-Jul-2025 20:36
Sulfate	**71.4**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 20:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072325
Collection Date: 23-Jul-2025 16:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 04:08
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 04:08
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 04:08
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 04:08
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 04:08
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 04:08
Surr: 1,2-Dichloroethane-d4	*96.6*			*70-126*	*%REC*	*1*	*26-Jul-2025 04:08*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 04:08*
Surr: Dibromofluoromethane	*99.2*			*77-123*	*%REC*	*1*	*26-Jul-2025 04:08*
Surr: Toluene-d8	*99.2*			*82-127*	*%REC*	*1*	*26-Jul-2025 04:08*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Jul-2025 19:13
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Jul-2025 19:13
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Jul-2025 19:13
Surr: 2,5-Dibromotoluene (Aliphatic)	*96.1*			*70-130*	*%REC*	*1*	*25-Jul-2025 19:13*
Surr: 2,5-Dibromotoluene (Aromatic)	*91.2*			*70-130*	*%REC*	*1*	*25-Jul-2025 19:13*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:39
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:39
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:39
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:39
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:39
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:39
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 11:39
Surr: 1-Chlorooctadecane	*63.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:39*
Surr: 2-Bromonaphthalene	*91.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:39*
Surr: 2-Fluorobiphenyl	*89.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:39*
Surr: o-Terphenyl	*69.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 11:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072325
Collection Date: 23-Jul-2025 16:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	27-Jul-2025 12:52
Barium	U		0.00190	0.00400	mg/L	1	27-Jul-2025 12:52
Calcium	**0.0413**	J	**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:52
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:52
Iron	U		0.0120	0.200	mg/L	1	27-Jul-2025 12:52
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:52
Magnesium	**0.0197**	J	**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:52
Manganese	**0.00134**	J	**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:52
Nickel	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:52
Potassium	U		0.0180	0.200	mg/L	1	27-Jul-2025 12:52
Sodium	**0.102**	J	**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:52
Strontium	**0.000300**	J	**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:52
Vanadium	U		0.000600	0.00500	mg/L	1	27-Jul-2025 12:52
Zinc	**0.00203**	J	**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:52
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 13:58
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 19:53
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 19:53
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**5.49**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**22.1**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 21:12
Chloride	**0.207**	J	**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 21:12
Sulfate	U		0.200	0.500	mg/L	1	25-Jul-2025 21:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 23-Jul-2025 10:30

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-10
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene	**0.00089**	J	**0.00028**	**0.0010**	**mg/L**	1	26-Jul-2025 04:29
Ethylbenzene	U		0.00033	0.0020	mg/L	1	26-Jul-2025 04:29
m,p-Xylene	U		0.00061	0.0040	mg/L	1	26-Jul-2025 04:29
o-Xylene	U		0.00031	0.0020	mg/L	1	26-Jul-2025 04:29
Toluene	**0.0039**		**0.00033**	**0.0020**	**mg/L**	1	26-Jul-2025 04:29
Xylenes, Total	U		0.00092	0.0060	mg/L	1	26-Jul-2025 04:29
Surr: 1,2-Dichloroethane-d4	*101*			*70-126*	*%REC*	*1*	*26-Jul-2025 04:29*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*26-Jul-2025 04:29*
Surr: Dibromofluoromethane	*99.8*			*77-123*	*%REC*	*1*	*26-Jul-2025 04:29*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*26-Jul-2025 04:29*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**1.18**		**0.0180**	**0.0500**	**mg/L**	10	28-Jul-2025 15:52
Aliphatics >C8 - C10	**0.0657**		**0.00400**	**0.0500**	**mg/L**	10	28-Jul-2025 15:52
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	26-Jul-2025 08:46
Surr: 2,5-Dibromotoluene (Aliphatic)	*116*			*70-130*	*%REC*	*10*	*28-Jul-2025 15:52*
Surr: 2,5-Dibromotoluene (Aromatic)	*86.1*			*70-130*	*%REC*	*1*	*26-Jul-2025 08:46*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	28-Jul-2025 12:08
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	28-Jul-2025 12:08
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	28-Jul-2025 12:08
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	28-Jul-2025 12:08
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	28-Jul-2025 12:08
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	28-Jul-2025 12:08
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	28-Jul-2025 12:08
Surr: 1-Chlorooctadecane	*62.4*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:08*
Surr: 2-Bromonaphthalene	*78.9*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:08*
Surr: 2-Fluorobiphenyl	*92.2*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:08*
Surr: o-Terphenyl	*70.4*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 23-Jul-2025 10:30

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-10
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	27-Jul-2025 12:54
Barium	**0.162**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:54
Calcium	**93.1**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:54
Chromium	**0.00375**	J	**0.000400**	**0.00400**	**mg/L**	1	27-Jul-2025 12:54
Iron	**1.69**		**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:54
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:54
Magnesium	**11.7**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:54
Manganese	**0.0164**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:54
Nickel	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:54
Potassium	**55.3**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:54
Sodium	**715**		**0.700**	**10.0**	**mg/L**	50	27-Jul-2025 13:34
Strontium	**4.87**		**0.0100**	**0.250**	**mg/L**	50	27-Jul-2025 13:34
Vanadium	U		0.000600	0.00500	mg/L	1	27-Jul-2025 12:54
Zinc	**0.00843**		**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:54
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:00
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**8.16**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**2,320**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 19:59
Alkalinity, Carbonate (As CaCO3)	**14.8**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 19:59
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**7.68**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**10.0**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**22.0**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**0.451**		**0.0600**	**0.200**	**mg/L**	2	25-Jul-2025 20:13
Chloride	**1,200**		**8.00**	**20.0**	**mg/L**	40	25-Jul-2025 20:42
Sulfate	**260**		**8.00**	**20.0**	**mg/L**	40	25-Jul-2025 20:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 23-Jul-2025 12:30

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-11
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 04:49
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 04:49
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 04:49
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 04:49
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 04:49
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 04:49
Surr: 1,2-Dichloroethane-d4	*99.2*			*70-126*	*%REC*	*1*	*26-Jul-2025 04:49*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Jul-2025 04:49*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*26-Jul-2025 04:49*
Surr: Toluene-d8	*98.2*			*82-127*	*%REC*	*1*	*26-Jul-2025 04:49*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 09:25
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 09:25
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 09:25
Surr: 2,5-Dibromotoluene (Aliphatic)	*98.2*			*70-130*	*%REC*	*1*	*26-Jul-2025 09:25*
Surr: 2,5-Dibromotoluene (Aromatic)	*92.9*			*70-130*	*%REC*	*1*	*26-Jul-2025 09:25*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 12:37
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 12:37
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 12:37
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 12:37
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 12:37
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 12:37
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 12:37
Surr: 1-Chlorooctadecane	*67.4*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:37*
Surr: 2-Bromonaphthalene	*78.0*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:37*
Surr: 2-Fluorobiphenyl	*88.5*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:37*
Surr: o-Terphenyl	*73.6*			*40-140*	*%REC*	*1*	*28-Jul-2025 12:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 23-Jul-2025 12:30

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-11
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	**0.00183**	J	**0.000400**	**0.00200**	**mg/L**	1	27-Jul-2025 12:56
Barium	**0.144**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:56
Calcium	**11.2**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:56
Chromium	U		0.000400	0.00400	mg/L	1	27-Jul-2025 12:56
Iron	**1.17**		**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:56
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:56
Magnesium	**2.08**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:56
Manganese	**0.0136**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:56
Nickel	**0.00152**	J	**0.000600**	**0.00200**	**mg/L**	1	27-Jul-2025 12:56
Potassium	**33.0**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:56
Sodium	**104**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:56
Strontium	**0.227**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:56
Vanadium	U		0.000600	0.00500	mg/L	1	27-Jul-2025 12:56
Zinc	**0.00363**	J	**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:56
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:02
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**6.04**		**0.500**	**1.00**	**mg/L**	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**410**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**280**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 20:05
Alkalinity, Carbonate (As CaCO3)	**28.2**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 20:05
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**5.68**		**0.920**	**5.00**	**mg/L**	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.81**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**22.0**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Jul-2025 21:17
Chloride	**21.8**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 21:17
Sulfate	**0.458**	J	**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 21:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 23-Jul-2025 08:10

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-12
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 05:10
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 05:10
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 05:10
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 05:10
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 05:10
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 05:10
Surr: 1,2-Dichloroethane-d4	*98.3*			*70-126*	*%REC*	*1*	*26-Jul-2025 05:10*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*26-Jul-2025 05:10*
Surr: Dibromofluoromethane	*98.2*			*77-123*	*%REC*	*1*	*26-Jul-2025 05:10*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*26-Jul-2025 05:10*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Jul-2025 10:04
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Jul-2025 10:04
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Jul-2025 10:04
Surr: 2,5-Dibromotoluene (Aliphatic)	*105*			*70-130*	*%REC*	*1*	*26-Jul-2025 10:04*
Surr: 2,5-Dibromotoluene (Aromatic)	*99.8*			*70-130*	*%REC*	*1*	*26-Jul-2025 10:04*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 13:05
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 13:05
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 13:05
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	28-Jul-2025 13:05
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	28-Jul-2025 13:05
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	28-Jul-2025 13:05
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	28-Jul-2025 13:05
Surr: 1-Chlorooctadecane	*68.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 13:05*
Surr: 2-Bromonaphthalene	*71.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 13:05*
Surr: 2-Fluorobiphenyl	*84.3*			*40-140*	*%REC*	*1*	*28-Jul-2025 13:05*
Surr: o-Terphenyl	*70.1*			*40-140*	*%REC*	*1*	*28-Jul-2025 13:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 23-Jul-2025 08:10

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-12
Matrix:GW

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 26-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	27-Jul-2025 12:58
Barium	**0.236**		**0.00190**	**0.00400**	**mg/L**	1	27-Jul-2025 12:58
Calcium	**24.3**		**0.0340**	**0.500**	**mg/L**	1	27-Jul-2025 12:58
Chromium	**0.000570**	J	**0.000400**	**0.00400**	**mg/L**	1	27-Jul-2025 12:58
Iron	**3.61**		**0.0120**	**0.200**	**mg/L**	1	27-Jul-2025 12:58
Lead	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:58
Magnesium	**7.46**		**0.0100**	**0.200**	**mg/L**	1	27-Jul-2025 12:58
Manganese	**0.342**		**0.000700**	**0.00500**	**mg/L**	1	27-Jul-2025 12:58
Nickel	U		0.000600	0.00200	mg/L	1	27-Jul-2025 12:58
Potassium	**3.13**		**0.0180**	**0.200**	**mg/L**	1	27-Jul-2025 12:58
Sodium	**39.8**		**0.0140**	**0.200**	**mg/L**	1	27-Jul-2025 12:58
Strontium	**0.225**		**0.000200**	**0.00500**	**mg/L**	1	27-Jul-2025 12:58
Vanadium	U		0.000600	0.00500	mg/L	1	27-Jul-2025 12:58
Zinc	**0.0101**		**0.00200**	**0.00400**	**mg/L**	1	27-Jul-2025 12:58
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 29-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	29-Jul-2025 14:03
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Jul-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**296**		**3.00**	**10.0**	**mg/L**	1	26-Jul-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**122**		**1.20**	**5.00**	**mg/L**	1	25-Jul-2025 20:11
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	25-Jul-2025 20:11
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Jul-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.43**	H	**0.100**	**1.00**	**pH Units**	1	28-Jul-2025 10:00
Temp Deg C @pH	**22.0**	H	**0**	**0**	**°C**	1	28-Jul-2025 10:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**0.100**		**0.0300**	**0.100**	**mg/L**	1	25-Jul-2025 21:23
Chloride	**43.6**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 21:23
Sulfate	**2.63**		**0.200**	**0.500**	**mg/L**	1	25-Jul-2025 21:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-236
Collection Date: 23-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 23:16
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 23:16
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 23:16
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 23:16
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 23:16
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 23:16
Surr: 1,2-Dichloroethane-d4	*97.8*			*70-126*	*%REC*	*1*	*25-Jul-2025 23:16*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*25-Jul-2025 23:16*
Surr: Dibromofluoromethane	*99.5*			*77-123*	*%REC*	*1*	*25-Jul-2025 23:16*
Surr: Toluene-d8	*99.8*			*82-127*	*%REC*	*1*	*25-Jul-2025 23:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-266
Collection Date: 23-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 23:36
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 23:36
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 23:36
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 23:36
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 23:36
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 23:36
Surr: 1,2-Dichloroethane-d4	*96.6*			*70-126*	*%REC*	*1*	*25-Jul-2025 23:36*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*25-Jul-2025 23:36*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*25-Jul-2025 23:36*
Surr: Toluene-d8	*99.4*			*82-127*	*%REC*	*1*	*25-Jul-2025 23:36*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-215
Collection Date: 23-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	25-Jul-2025 23:57
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 23:57
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Jul-2025 23:57
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Jul-2025 23:57
Toluene		U	0.00033	0.0020	mg/L	1	25-Jul-2025 23:57
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Jul-2025 23:57
Surr: 1,2-Dichloroethane-d4	*97.2*			*70-126*	*%REC*	*1*	*25-Jul-2025 23:57*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*25-Jul-2025 23:57*
Surr: Dibromofluoromethane	*99.9*			*77-123*	*%REC*	*1*	*25-Jul-2025 23:57*
Surr: Toluene-d8	*98.3*			*82-127*	*%REC*	*1*	*25-Jul-2025 23:57*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-272
Collection Date: 23-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071343
Lab ID:HS25071343-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	26-Jul-2025 00:18
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 00:18
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Jul-2025 00:18
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Jul-2025 00:18
Toluene		U	0.00033	0.0020	mg/L	1	26-Jul-2025 00:18
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Jul-2025 00:18
Surr: 1,2-Dichloroethane-d4	*94.8*			*70-126*	*%REC*	*1*	*26-Jul-2025 00:18*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*26-Jul-2025 00:18*
Surr: Dibromofluoromethane	*99.1*			*77-123*	*%REC*	*1*	*26-Jul-2025 00:18*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*26-Jul-2025 00:18*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

Batch ID: 230873 **Start Date:** 25 Jul 2025 09:05 **End Date:** 25 Jul 2025 09:05
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071343-01	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-02	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-03	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-04	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-05	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-06	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-07	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-08	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-09	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-10	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-11	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071343-12	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 230923 **Start Date:** 26 Jul 2025 10:00 **End Date:** 26 Jul 2025 10:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071343-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 231032 **Start Date:** 29 Jul 2025 09:00 **End Date:** 29 Jul 2025 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071343-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071343-12		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 230873 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00		25 Jul 2025 09:05	28 Jul 2025 11:10	1
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00		25 Jul 2025 09:05	28 Jul 2025 11:10	1
HS25071343-09	FB-072325	23 Jul 2025 16:00		25 Jul 2025 09:05	28 Jul 2025 11:39	1
HS25071343-09	FB-072325	23 Jul 2025 16:00		25 Jul 2025 09:05	28 Jul 2025 11:39	1
Batch ID: 230873 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00		25 Jul 2025 09:05	25 Jul 2025 19:09	1
HS25071343-01	LDNR-05	23 Jul 2025 09:00		25 Jul 2025 09:05	25 Jul 2025 19:09	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35		25 Jul 2025 09:05	26 Jul 2025 01:23	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35		25 Jul 2025 09:05	26 Jul 2025 01:23	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00		25 Jul 2025 09:05	26 Jul 2025 01:52	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00		25 Jul 2025 09:05	26 Jul 2025 01:52	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20		25 Jul 2025 09:05	26 Jul 2025 02:20	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20		25 Jul 2025 09:05	26 Jul 2025 02:20	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20		25 Jul 2025 09:05	26 Jul 2025 02:49	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20		25 Jul 2025 09:05	26 Jul 2025 02:49	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30		25 Jul 2025 09:05	26 Jul 2025 03:18	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30		25 Jul 2025 09:05	26 Jul 2025 03:18	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55		25 Jul 2025 09:05	28 Jul 2025 10:41	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55		25 Jul 2025 09:05	28 Jul 2025 10:41	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30		25 Jul 2025 09:05	28 Jul 2025 12:08	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30		25 Jul 2025 09:05	28 Jul 2025 12:08	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30		25 Jul 2025 09:05	28 Jul 2025 12:37	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30		25 Jul 2025 09:05	28 Jul 2025 12:37	1
HS25071343-12	019-1603	23 Jul 2025 08:10		25 Jul 2025 09:05	28 Jul 2025 13:05	1
HS25071343-12	019-1603	23 Jul 2025 08:10		25 Jul 2025 09:05	28 Jul 2025 13:05	1
Batch ID: 230923 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00		26 Jul 2025 10:00	27 Jul 2025 13:32	20
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00		26 Jul 2025 10:00	27 Jul 2025 12:50	1
HS25071343-09	FB-072325	23 Jul 2025 16:00		26 Jul 2025 10:00	27 Jul 2025 12:52	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 230923 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00		26 Jul 2025 10:00	27 Jul 2025 13:36	20
HS25071343-01	LDNR-05	23 Jul 2025 09:00		26 Jul 2025 10:00	27 Jul 2025 11:41	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35		26 Jul 2025 10:00	27 Jul 2025 12:04	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00		26 Jul 2025 10:00	27 Jul 2025 12:06	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20		26 Jul 2025 10:00	27 Jul 2025 12:08	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20		26 Jul 2025 10:00	27 Jul 2025 12:10	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30		26 Jul 2025 10:00	27 Jul 2025 12:12	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55		26 Jul 2025 10:00	27 Jul 2025 12:14	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30		26 Jul 2025 10:00	27 Jul 2025 13:34	50
HS25071343-10	MW-3-500	23 Jul 2025 10:30		26 Jul 2025 10:00	27 Jul 2025 12:54	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30		26 Jul 2025 10:00	27 Jul 2025 12:56	1
HS25071343-12	019-1603	23 Jul 2025 08:10		26 Jul 2025 10:00	27 Jul 2025 12:58	1
Batch ID: 231032 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00		29 Jul 2025 09:00	29 Jul 2025 13:57	1
HS25071343-09	FB-072325	23 Jul 2025 16:00		29 Jul 2025 09:00	29 Jul 2025 13:58	1
Batch ID: 231032 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00		29 Jul 2025 09:00	29 Jul 2025 13:38	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35		29 Jul 2025 09:00	29 Jul 2025 13:43	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00		29 Jul 2025 09:00	29 Jul 2025 13:45	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20		29 Jul 2025 09:00	29 Jul 2025 13:50	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20		29 Jul 2025 09:00	29 Jul 2025 13:51	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30		29 Jul 2025 09:00	29 Jul 2025 13:53	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55		29 Jul 2025 09:00	29 Jul 2025 13:55	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30		29 Jul 2025 09:00	29 Jul 2025 14:00	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30		29 Jul 2025 09:00	29 Jul 2025 14:02	1
HS25071343-12	019-1603	23 Jul 2025 08:10		29 Jul 2025 09:00	29 Jul 2025 14:03	1
Batch ID: R518433 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			25 Jul 2025 19:49	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			25 Jul 2025 19:53	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518433 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			25 Jul 2025 18:52	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			25 Jul 2025 19:03	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			25 Jul 2025 19:21	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			25 Jul 2025 19:27	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			25 Jul 2025 19:32	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			25 Jul 2025 19:38	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			25 Jul 2025 19:43	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30			25 Jul 2025 19:59	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			25 Jul 2025 20:05	1
HS25071343-12	019-1603	23 Jul 2025 08:10			25 Jul 2025 20:11	1
Batch ID: R518436 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			25 Jul 2025 20:36	10
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			25 Jul 2025 20:07	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			25 Jul 2025 21:12	1
Batch ID: R518436 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			25 Jul 2025 18:34	10
HS25071343-01	LDNR-05	23 Jul 2025 09:00			25 Jul 2025 18:28	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			25 Jul 2025 19:09	10
HS25071343-02	LDNR-12	23 Jul 2025 12:35			25 Jul 2025 18:51	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			25 Jul 2025 19:15	10
HS25071343-03	LDNR-07	23 Jul 2025 13:00			25 Jul 2025 18:57	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			25 Jul 2025 19:20	10
HS25071343-04	LDNR-08	23 Jul 2025 13:20			25 Jul 2025 19:03	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			25 Jul 2025 20:19	10
HS25071343-05	LDNR-25	23 Jul 2025 14:20			25 Jul 2025 19:50	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			25 Jul 2025 20:25	10
HS25071343-06	LDNR-09	23 Jul 2025 15:30			25 Jul 2025 19:55	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			25 Jul 2025 20:31	10
HS25071343-07	LDNR-19	23 Jul 2025 15:55			25 Jul 2025 20:01	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30			25 Jul 2025 20:42	40
HS25071343-10	MW-3-500	23 Jul 2025 10:30			25 Jul 2025 20:13	2
HS25071343-11	MW-3-200	23 Jul 2025 12:30			25 Jul 2025 21:17	1
HS25071343-12	019-1603	23 Jul 2025 08:10			25 Jul 2025 21:23	1
Batch ID: R518450 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			26 Jul 2025 09:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518450 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			26 Jul 2025 09:00	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			26 Jul 2025 09:00	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			26 Jul 2025 09:00	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			26 Jul 2025 09:00	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			26 Jul 2025 09:00	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			26 Jul 2025 09:00	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			26 Jul 2025 09:00	1
Batch ID: R518451 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** GW	
HS25071343-10	MW-3-500	23 Jul 2025 10:30			26 Jul 2025 10:00	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			26 Jul 2025 10:00	1
HS25071343-12	019-1603	23 Jul 2025 08:10			26 Jul 2025 10:00	1
Batch ID: R518451 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25071343-09	FB-072325	23 Jul 2025 16:00			26 Jul 2025 10:00	1
Batch ID: R518462 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			25 Jul 2025 11:00	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			25 Jul 2025 11:00	1
Batch ID: R518462 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			25 Jul 2025 11:00	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			25 Jul 2025 11:00	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			25 Jul 2025 11:00	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			25 Jul 2025 11:00	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			25 Jul 2025 11:00	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			25 Jul 2025 11:00	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			25 Jul 2025 11:00	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30			25 Jul 2025 11:00	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			25 Jul 2025 11:00	1
HS25071343-12	019-1603	23 Jul 2025 08:10			25 Jul 2025 11:00	1
Batch ID: R518463 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			26 Jul 2025 03:47	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			26 Jul 2025 04:08	1
HS25071343-13	CG-061125-236	23 Jul 2025 00:00			25 Jul 2025 23:16	1
HS25071343-14	CG-061125-266	23 Jul 2025 00:00			25 Jul 2025 23:36	1
HS25071343-15	CG-061125-215	23 Jul 2025 00:00			25 Jul 2025 23:57	1
HS25071343-16	CG-061125-272	23 Jul 2025 00:00			26 Jul 2025 00:18	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518463 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			26 Jul 2025 00:39	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			26 Jul 2025 01:42	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			26 Jul 2025 02:03	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			26 Jul 2025 02:23	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			26 Jul 2025 02:44	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			26 Jul 2025 03:05	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			26 Jul 2025 03:26	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30			26 Jul 2025 04:29	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			26 Jul 2025 04:49	1
HS25071343-12	019-1603	23 Jul 2025 08:10			26 Jul 2025 05:10	1
Batch ID: R518464 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			25 Jul 2025 11:00	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			25 Jul 2025 11:00	1
Batch ID: R518464 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			25 Jul 2025 11:00	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			25 Jul 2025 11:00	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			25 Jul 2025 11:00	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			25 Jul 2025 11:00	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			25 Jul 2025 11:00	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			25 Jul 2025 11:00	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			25 Jul 2025 11:00	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30			25 Jul 2025 11:00	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			25 Jul 2025 11:00	1
HS25071343-12	019-1603	23 Jul 2025 08:10			25 Jul 2025 11:00	1
Batch ID: R518490 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			26 Jul 2025 06:50	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			25 Jul 2025 19:13	1
Batch ID: R518490 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			26 Jul 2025 02:19	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			26 Jul 2025 02:58	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			26 Jul 2025 03:37	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			26 Jul 2025 04:15	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			26 Jul 2025 04:54	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			26 Jul 2025 05:33	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			26 Jul 2025 06:12	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			26 Jul 2025 09:25	1
HS25071343-12	019-1603	23 Jul 2025 08:10			26 Jul 2025 10:04	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518491 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			28 Jul 2025 10:00	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			28 Jul 2025 10:00	1
Batch ID: R518491 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			28 Jul 2025 10:00	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			28 Jul 2025 10:00	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			28 Jul 2025 10:00	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			28 Jul 2025 10:00	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			28 Jul 2025 10:00	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			28 Jul 2025 10:00	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			28 Jul 2025 10:00	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30			28 Jul 2025 10:00	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			28 Jul 2025 10:00	1
HS25071343-12	019-1603	23 Jul 2025 08:10			28 Jul 2025 10:00	1
Batch ID: R518492 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071343-08	SW-DUP-01	23 Jul 2025 00:00			26 Jul 2025 06:50	1
HS25071343-09	FB-072325	23 Jul 2025 16:00			25 Jul 2025 19:13	1
Batch ID: R518492 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** GW	
HS25071343-01	LDNR-05	23 Jul 2025 09:00			26 Jul 2025 02:19	1
HS25071343-02	LDNR-12	23 Jul 2025 12:35			26 Jul 2025 02:58	1
HS25071343-03	LDNR-07	23 Jul 2025 13:00			26 Jul 2025 03:37	1
HS25071343-04	LDNR-08	23 Jul 2025 13:20			26 Jul 2025 04:15	1
HS25071343-05	LDNR-25	23 Jul 2025 14:20			26 Jul 2025 04:54	1
HS25071343-06	LDNR-09	23 Jul 2025 15:30			26 Jul 2025 05:33	1
HS25071343-07	LDNR-19	23 Jul 2025 15:55			26 Jul 2025 06:12	1
HS25071343-10	MW-3-500	23 Jul 2025 10:30			26 Jul 2025 08:46	1
HS25071343-11	MW-3-200	23 Jul 2025 12:30			26 Jul 2025 09:25	1
HS25071343-12	019-1603	23 Jul 2025 08:10			26 Jul 2025 10:04	1
Batch ID: R518601 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** GW	
HS25071343-10	MW-3-500	23 Jul 2025 10:30			28 Jul 2025 15:52	10

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 230873 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:11**
Client ID: Run ID: **FID23_518503** SeqNo: **8960198** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02504*	*0*	*0.04*	*0*	*62.6*	*40 - 140*				

MBLK Sample ID: **MBLK-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:11**
Client ID: Run ID: **FID-22_518504** SeqNo: **8960219** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03165*	*0*	*0.04*	*0*	*79.1*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03131*	*0*	*0.04*	*0*	*78.3*	*40 - 140*				
Surr: o-Terphenyl	*0.02366*	*0*	*0.04*	*0*	*59.1*	*40 - 140*				

LCS Sample ID: **LCS-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:40**
Client ID: Run ID: **FID23_518503** SeqNo: **8960199** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04063	0.100	0.05	0	81.3	40 - 140				J
Aliphatics >C12 - C16	0.08765	0.100	0.1	0	87.6	40 - 140				J
Aliphatics >C16 - C35	0.3421	0.100	0.4	0	85.5	40 - 140				
Surr: 1-Chlorooctadecane	*0.02469*	*0*	*0.04*	*0*	*61.7*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 230873 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-230873** Units: **mg/L** Analysis Date: **25-Jul-2025 18:40**
Client ID: Run ID: **FID-22_518504** SeqNo: **8960220** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.03962	0.100	0.05	0	79.2	40 - 140				J
Aromatics >C12 - C16	0.15	0.100	0.2	0	75.0	40 - 140				
Aromatics >C16 - C21	0.1197	0.100	0.15	0	79.8	40 - 140				
Aromatics >C21 - C35	0.3566	0.100	0.45	0	79.2	40 - 140				
Surr: 2-Bromonaphthalene	*0.03106*	*0*	*0.04*	*0*	*77.7*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03052*	*0*	*0.04*	*0*	*76.3*	*40 - 140*				
Surr: o-Terphenyl	*0.02261*	*0*	*0.04*	*0*	*56.5*	*40 - 140*				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 19:37**
Client ID: **LDNR-05** Run ID: **FID23_518503** SeqNo: **8960201** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04437	0.100	0.05	0	88.7	40 - 140				J
Aliphatics >C12 - C16	0.09851	0.100	0.1	0	98.5	40 - 140				J
Aliphatics >C16 - C35	0.3469	0.100	0.4	0	86.7	40 - 140				
Surr: 1-Chlorooctadecane	*0.02633*	*0*	*0.04*	*0*	*65.8*	*40 - 140*				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 19:37**
Client ID: **LDNR-05** Run ID: **FID-22_518504** SeqNo: **8960222** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04495	0.100	0.05	0	89.9	40 - 140				J
Aromatics >C12 - C16	0.1686	0.100	0.2	0	84.3	40 - 140				
Aromatics >C16 - C21	0.1378	0.100	0.15	0	91.8	40 - 140				
Aromatics >C21 - C35	0.4074	0.100	0.45	0.02686	84.6	40 - 140				
Surr: 2-Bromonaphthalene	*0.02831*	*0*	*0.04*	*0*	*70.8*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03367*	*0*	*0.04*	*0*	*84.2*	*40 - 140*				
Surr: o-Terphenyl	*0.0259*	*0*	*0.04*	*0*	*64.8*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 230873 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 20:06**
Client ID: **LDNR-05** Run ID: **FID23_518503** SeqNo: **8960202** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.048	0.100	0.05	0	96.0	40 - 140	0.04437	0	50	J
Aliphatics >C12 - C16	0.1091	0.100	0.1	0	109	40 - 140	0.09851	10.2	50	
Aliphatics >C16 - C35	0.3898	0.100	0.4	0	97.5	40 - 140	0.3469	11.7	50	
Surr: 1-Chlorooctadecane	*0.02839*	*0*	*0.04*	*0*	*71.0*	*40 - 140*	*0.02633*	*7.54*	*50*	

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 20:06**
Client ID: **LDNR-05** Run ID: **FID-22_518504** SeqNo: **8960223** PrepDate: **25-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04614	0.100	0.05	0	92.3	40 - 140	0.04495	0	50	J
Aromatics >C12 - C16	0.1688	0.100	0.2	0	84.4	40 - 140	0.1686	0.113	50	
Aromatics >C16 - C21	0.1348	0.100	0.15	0	89.9	40 - 140	0.1378	2.18	50	
Aromatics >C21 - C35	0.4055	0.100	0.45	0.02686	84.1	40 - 140	0.4074	0.448	50	
Surr: 2-Bromonaphthalene	*0.02683*	*0*	*0.04*	*0*	*67.1*	*40 - 140*	*0.02831*	*5.38*	*50*	
Surr: 2-Fluorobiphenyl	*0.03264*	*0*	*0.04*	*0*	*81.6*	*40 - 140*	*0.03367*	*3.11*	*50*	
Surr: o-Terphenyl	*0.02445*	*0*	*0.04*	*0*	*61.1*	*40 - 140*	*0.0259*	*5.77*	*50*	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518490 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 18:35**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959911** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2396*	*0.0100*	*0.25*	*0*	*95.8*	*70 - 130*				

LCS Sample ID: **LCS-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:17**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959909** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.03018	0.00500	0.025	0	121	70 - 130				
Aliphatics >C8 - C10	0.02211	0.00500	0.025	0	88.4	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2186*	*0.0100*	*0.25*	*0*	*87.4*	*70 - 130*				

LCSD Sample ID: **LCSD-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:56**
Client ID: Run ID: **FID-14_518490** SeqNo: **8959910** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02424	0.00500	0.025	0	97.0	70 - 130	0.03018	21.8	25	
Aliphatics >C8 - C10	0.0208	0.00500	0.025	0	83.2	70 - 130	0.02211	6.08	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2671*	*0.0100*	*0.25*	*0*	*107*	*70 - 130*	*0.2186*	*20*	*25*	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **26-Jul-2025 10:43**
Client ID: **LDNR-05** Run ID: **FID-14_518490** SeqNo: **8959934** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02538	0.00500	0.025	0	102	70 - 130				
Aliphatics >C8 - C10	0.02328	0.00500	0.025	0	93.1	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2602*	*0.0100*	*0.25*	*0*	*104*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518490 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **26-Jul-2025 11:21**
Client ID: **LDNR-05** Run ID: **FID-14_518490** SeqNo: **8959935** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02652	0.00500	0.025	0	106	70 - 130	0.02538	4.4	25	
Aliphatics >C8 - C10	0.0224	0.00500	0.025	0	89.6	70 - 130	0.02328	3.85	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2471*	*0.0100*	*0.25*	*0*	*98.8*	*70 - 130*	*0.2602*	*5.19*	*25*	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-11	HS25071343-12	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518492 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 18:35**
Client ID: Run ID: **FID-15_518492** SeqNo: **8959987** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2265*	*0.0100*	*0.25*	*0*	*90.6*	*70 - 130*				

LCS Sample ID: **LCS-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:17**
Client ID: Run ID: **FID-15_518492** SeqNo: **8959985** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0965	0.0200	0.1	0	96.5	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2059*	*0.0100*	*0.25*	*0*	*82.4*	*70 - 130*				

LCSD Sample ID: **LCSD-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 17:56**
Client ID: Run ID: **FID-15_518492** SeqNo: **8959986** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0814	0.0200	0.1	0	81.4	70 - 130	0.0965	17	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2506*	*0.0100*	*0.25*	*0*	*100*	*70 - 130*	*0.2059*	*19.6*	*25*	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **26-Jul-2025 10:43**
Client ID: **LDNR-05** Run ID: **FID-15_518492** SeqNo: **8960010** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08195	0.0200	0.1	0	82.0	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2462*	*0.0100*	*0.25*	*0*	*98.5*	*70 - 130*				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **26-Jul-2025 11:21**
Client ID: **LDNR-05** Run ID: **FID-15_518492** SeqNo: **8960011** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0785	0.0200	0.1	0	78.5	70 - 130	0.08195	4.3	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2343*	*0.0100*	*0.25*	*0*	*93.7*	*70 - 130*	*0.2462*	*4.94*	*25*	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518601 (0) **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MBLK Sample ID: **MBLK-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 15:13**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962560** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2587*	*0.0100*	*0.25*	*0*	*103*	*70 - 130*				

LCS Sample ID: **LCS-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 13:56**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962558** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02773	0.00500	0.025	0	111	70 - 130				
Aliphatics >C8 - C10	0.02033	0.00500	0.025	0	81.3	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2391*	*0.0100*	*0.25*	*0*	*95.6*	*70 - 130*				

LCSD Sample ID: **LCSD-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 14:34**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962559** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02568	0.00500	0.025	0	103	70 - 130	0.02773	7.67	25	
Aliphatics >C8 - C10	0.01982	0.00500	0.025	0	79.3	70 - 130	0.02033	2.56	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.246*	*0.0100*	*0.25*	*0*	*98.4*	*70 - 130*	*0.2391*	*2.85*	*25*	

MS Sample ID: **HS25071456-07** Units: **mg/L** Analysis Date: **29-Jul-2025 02:13**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962574** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02925	0.00500	0.025	0	117	70 - 130				
Aliphatics >C8 - C10	0.01851	0.00500	0.025	0	74.0	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2423*	*0.0100*	*0.25*	*0*	*96.9*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518601 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MSD Sample ID: **HS25071456-07** Units: **mg/L** Analysis Date: **29-Jul-2025 02:51**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962575** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02808	0.00500	0.025	0	112	70 - 130	0.02925	4.06	25	
Aliphatics >C8 - C10	0.01867	0.00500	0.025	0	74.7	70 - 130	0.01851	0.877	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2734*	*0.0100*	*0.25*	*0*	*109*	*70 - 130*	*0.2423*	*12.1*	*25*	

The following samples were analyzed in this batch: HS25071343-10

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 230923 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-230923** Units: **mg/L** Analysis Date: **27-Jul-2025 11:31**
Client ID: Run ID: **ICPMS06_518447** SeqNo: **8958801** PrepDate: **26-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00400								
Calcium	U	0.500								
Chromium	U	0.00400								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00200								
Potassium	U	0.200								
Sodium	0.02648	0.200								J
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00400								

LCS Sample ID: **LCS-230923** Units: **mg/L** Analysis Date: **27-Jul-2025 11:33**
Client ID: Run ID: **ICPMS06_518447** SeqNo: **8958802** PrepDate: **26-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04416	0.00200	0.05	0	88.3	80 - 120				
Barium	0.04423	0.00400	0.05	0	88.5	80 - 120				
Calcium	4.825	0.500	5	0	96.5	80 - 120				
Chromium	0.0434	0.00400	0.05	0	86.8	80 - 120				
Iron	4.651	0.200	5	0	93.0	80 - 120				
Lead	0.0422	0.00200	0.05	0	84.4	80 - 120				
Magnesium	4.547	0.200	5	0	90.9	80 - 120				
Manganese	0.04548	0.00500	0.05	0	91.0	80 - 120				
Nickel	0.04555	0.00200	0.05	0	91.1	80 - 120				
Potassium	4.564	0.200	5	0	91.3	80 - 120				
Sodium	4.582	0.200	5	0	91.6	80 - 120				
Strontium	0.09281	0.00500	0.1	0	92.8	80 - 120				
Vanadium	0.04336	0.00500	0.05	0	86.7	80 - 120				
Zinc	0.04735	0.00400	0.05	0	94.7	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 230923 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **27-Jul-2025 11:43**
Client ID: **LDNR-05** Run ID: **ICPMS06_518447** SeqNo: **8958806** PrepDate: **26-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.0494	0.00200	0.05	0.000957	96.9	80 - 120				
Barium	0.2469	0.00400	0.05	0.1957	102	80 - 120				
Calcium	68.33	0.500	5	63.25	102	80 - 120				O
Chromium	0.04641	0.00400	0.05	0.000378	92.1	80 - 120				
Iron	4.943	0.200	5	0.122	96.4	80 - 120				
Lead	0.04419	0.00200	0.05	0.000024	88.3	80 - 120				
Magnesium	17.98	0.200	5	12.81	103	80 - 120				
Manganese	2.022	0.00500	0.05	1.996	53.8	80 - 120				SEO
Nickel	0.04676	0.00200	0.05	0.001555	90.4	80 - 120				
Potassium	7.333	0.200	5	2.462	97.4	80 - 120				
Sodium	129.4	0.200	5	123.3	122	80 - 120				SO
Strontium	0.5663	0.00500	0.1	0.4814	84.9	80 - 120				O
Vanadium	0.04794	0.00500	0.05	0.000805	94.3	80 - 120				
Zinc	0.05065	0.00400	0.05	0.004099	93.1	80 - 120				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **27-Jul-2025 11:45**
Client ID: **LDNR-05** Run ID: **ICPMS06_518447** SeqNo: **8958807** PrepDate: **26-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04789	0.00200	0.05	0.000957	93.9	80 - 120	0.0494	3.09	20	
Barium	0.2444	0.00400	0.05	0.1957	97.3	80 - 120	0.2469	1.02	20	
Calcium	66.68	0.500	5	63.25	68.5	80 - 120	68.33	2.45	20	SO
Chromium	0.04507	0.00400	0.05	0.000378	89.4	80 - 120	0.04641	2.92	20	
Iron	4.801	0.200	5	0.122	93.6	80 - 120	4.943	2.92	20	
Lead	0.04451	0.00200	0.05	0.000024	89.0	80 - 120	0.04419	0.731	20	
Magnesium	17.18	0.200	5	12.81	87.4	80 - 120	17.98	4.57	20	
Manganese	1.986	0.00500	0.05	1.996	-18.3	80 - 120	2.022	1.8	20	SEO
Nickel	0.04564	0.00200	0.05	0.001555	88.2	80 - 120	0.04676	2.43	20	
Potassium	7.258	0.200	5	2.462	95.9	80 - 120	7.333	1.03	20	
Sodium	126.8	0.200	5	123.3	69.8	80 - 120	129.4	2.03	20	SO
Strontium	0.5652	0.00500	0.1	0.4814	83.8	80 - 120	0.5663	0.196	20	O
Vanadium	0.04664	0.00500	0.05	0.000805	91.7	80 - 120	0.04794	2.75	20	
Zinc	0.05035	0.00400	0.05	0.004099	92.5	80 - 120	0.05065	0.6	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 230923 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25071343-01PDS** Units: **mg/L** Analysis Date: **27-Jul-2025 11:47**
Client ID: **LDNR-05** Run ID: **ICPMS06_518447** SeqNo: **8958808** PrepDate: **26-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1034	0.00200	0.1	0.000957	102	75 - 125				
Barium	0.3005	0.00400	0.1	0.1957	105	75 - 125				
Calcium	73.58	0.500	10	63.25	103	75 - 125				O
Chromium	0.09699	0.00400	0.1	0.000378	96.6	75 - 125				
Iron	10.24	0.200	10	0.122	101	75 - 125				
Lead	0.09942	0.00200	0.1	0.000024	99.4	75 - 125				
Magnesium	23.15	0.200	10	12.81	103	75 - 125				
Nickel	0.09583	0.00200	0.1	0.001555	94.3	75 - 125				
Potassium	12.89	0.200	10	2.462	104	75 - 125				
Sodium	134.2	0.200	10	123.3	109	75 - 125				O
Strontium	0.5868	0.00500	0.1	0.4814	105	75 - 125				O
Vanadium	0.09993	0.00500	0.1	0.000805	99.1	75 - 125				
Zinc	0.1037	0.00400	0.1	0.004099	99.6	75 - 125				

PDS Sample ID: **HS25071343-01PDS** Units: **mg/L** Analysis Date: **27-Jul-2025 13:42**
Client ID: **LDNR-05** Run ID: **ICPMS06_518447** SeqNo: **8958856** PrepDate: **26-Jul-2025** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	3.945	0.100	2	2.061	94.2	75 - 125				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 230923 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

SD Sample ID: **HS25071343-01SD** Units: **mg/L** Analysis Date: **27-Jul-2025 11:35**
Client ID: **LDNR-05** Run ID: **ICPMS06_518447** SeqNo: **8958803** PrepDate: **26-Jul-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.000957	0	10	
Barium	0.1932	0.0200					0.1957	1.28	10	
Calcium	64.54	2.50					63.25	2.04	10	
Chromium	U	0.0200					0.000378	0	10	
Iron	0.13	1.00					0.122	0	10	J
Lead	U	0.0100					0.000024	0	10	
Magnesium	13.23	1.00					12.81	3.28	10	
Nickel	U	0.0100					0.001555	0	10	
Potassium	2.581	1.00					2.462	4.81	10	
Sodium	126.2	1.00					123.3	2.36	10	
Strontium	0.4931	0.0250					0.4814	2.43	10	
Vanadium	U	0.0250					0.000805	0	10	
Zinc	U	0.0200					0.004099	0	10	

SD Sample ID: **HS25071343-01SD** Units: **mg/L** Analysis Date: **27-Jul-2025 13:38**
Client ID: **LDNR-05** Run ID: **ICPMS06_518447** SeqNo: **8958854** PrepDate: **26-Jul-2025** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Manganese	2.103	0.500					2.061	2.02	10	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: 231032 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-231032** Units: **mg/L** Analysis Date: **29-Jul-2025 13:29**
Client ID: Run ID: **HG05_518625** SeqNo: **8962999** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-231032** Units: **mg/L** Analysis Date: **29-Jul-2025 13:31**
Client ID: Run ID: **HG05_518625** SeqNo: **8963000** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00531	0.000200	0.005	0	106	80 - 120				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **29-Jul-2025 13:40**
Client ID: **LDNR-05** Run ID: **HG05_518625** SeqNo: **8963055** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.000200	0.005	0.000001	101	75 - 125				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 13:41**
Client ID: **LDNR-05** Run ID: **HG05_518625** SeqNo: **8963056** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00538	0.000200	0.005	0.000001	108	75 - 125	0.00506	6.13	20	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518463 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 22:13**
Client ID: Run ID: **VOA4_518463** SeqNo: **8959332** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*98.6*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*97.5*	*81 - 120*				

LCS Sample ID: **LCS-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 21:11**
Client ID: Run ID: **VOA4_518463** SeqNo: **8959340** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.022	0.0010	0.02	0	110	74 - 120				
Ethylbenzene	0.022	0.0020	0.02	0	109	77 - 117				
m,p-Xylene	0.043	0.0040	0.04	0	108	77 - 122				
o-Xylene	0.022	0.0020	0.02	0	108	75 - 119				
Toluene	0.022	0.0020	0.02	0	109	77 - 118				
Xylenes, Total	0.065	0.0060	0.06	0	108	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*97.9*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*103*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.5*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518463 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250725** Units: **mg/L** Analysis Date: **25-Jul-2025 21:32**
Client ID: Run ID: **VOA4_518463** SeqNo: **8959341** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.021	0.0010	0.02	0	105	74 - 120	0.02205	4.7	20	
Ethylbenzene	0.021	0.0020	0.02	0	105	77 - 117	0.02173	3.46	20	
m,p-Xylene	0.042	0.0040	0.04	0	106	77 - 122	0.04337	2.42	20	
o-Xylene	0.021	0.0020	0.02	0	105	75 - 119	0.02153	2.14	20	
Toluene	0.021	0.0020	0.02	0	106	77 - 118	0.02177	2.64	20	
Xylenes, Total	0.063	0.0060	0.06	0	106	75 - 122	0.06490	2.33	20	
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*98.3*	*70 - 123*	*0.04897*	*0.355*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*99.3*	*77 - 113*	*0.05135*	*3.36*	*20*	
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*101*	*73 - 126*	*0.05033*	*0.434*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.0*	*81 - 120*	*0.04974*	*0.482*	*20*	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **26-Jul-2025 01:00**
Client ID: **LDNR-05** Run ID: **VOA4_518463** SeqNo: **8959342** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.024	0.0010	0.02	0	119	70 - 127				
Ethylbenzene	0.023	0.0020	0.02	0	117	70 - 124				
m,p-Xylene	0.048	0.0040	0.04	0	119	70 - 130				
o-Xylene	0.023	0.0020	0.02	0	117	70 - 124				
Toluene	0.024	0.0020	0.02	0	120	70 - 123				
Xylenes, Total	0.071	0.0060	0.06	0	119	70 - 130				
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*97.7*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*0.049*	*0.0010*	*0.05*	*0*	*98.4*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*99.6*	*77 - 123*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*82 - 127*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518463 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **26-Jul-2025 01:21**
Client ID: **LDNR-05** Run ID: **VOA4_518463** SeqNo: **8959343** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.024	0.0010	0.02	0	121	70 - 127	0.02380	1.41	20	
Ethylbenzene	0.024	0.0020	0.02	0	119	70 - 124	0.02341	1.44	20	
m,p-Xylene	0.048	0.0040	0.04	0	120	70 - 130	0.04775	0.608	20	
o-Xylene	0.024	0.0020	0.02	0	119	70 - 124	0.02348	1.15	20	
Toluene	0.025	0.0020	0.02	0	123	70 - 123	0.02392	2.57	20	
Xylenes, Total	0.072	0.0060	0.06	0	120	70 - 130	0.07123	0.786	20	
Surr: 1,2-Dichloroethane-d4	*0.050*	*0.0010*	*0.05*	*0*	*101*	*70 - 126*	*0.04885*	*3.14*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*100*	*77 - 113*	*0.04919*	*1.83*	*20*	
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*101*	*77 - 123*	*0.04982*	*1.67*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100*	*82 - 127*	*0.05044*	*0.499*	*20*	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12
HS25071343-13	HS25071343-14	HS25071343-15	HS25071343-16

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518433 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-07.25.2025** Units: **mg/L** Analysis Date: **25-Jul-2025 18:12**
Client ID: Run ID: **Skalar 03_518433** SeqNo: **8958099** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-07.25.2025** Units: **mg/L** Analysis Date: **25-Jul-2025 18:18**
Client ID: Run ID: **Skalar 03_518433** SeqNo: **8958100** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	968.6	5.00	1000	0	96.9	85 - 115				

LCSD Sample ID: **LCSD-07.25.2025** Units: **mg/L** Analysis Date: **25-Jul-2025 18:24**
Client ID: Run ID: **Skalar 03_518433** SeqNo: **8958101** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	966.2	5.00	1000	0	96.6	85 - 115	968.6	0.248	20	

DUP Sample ID: **HS25071343-01DUP** Units: **mg/L** Analysis Date: **25-Jul-2025 18:58**
Client ID: **LDNR-05** Run ID: **Skalar 03_518433** SeqNo: **8958107** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	149.4	5.00					148.8	0.402	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518436 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **25-Jul-2025 15:50**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958181** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **25-Jul-2025 16:02**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958182** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.913	0.100	4	0	97.8	80 - 120				
Chloride	19.66	0.500	20	0	98.3	80 - 120				
Sulfate	19.71	0.500	20	0	98.6	80 - 120				

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 18:39**
Client ID: **LDNR-05** Run ID: **ICS-Integrion_518436** SeqNo: **8958205** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	17.44	1.00	20	0	87.2	80 - 120				
Chloride	304.1	5.00	100	201.5	103	80 - 120				
Sulfate	166	5.00	100	67.5	98.5	80 - 120				

MS Sample ID: **HS25071234-21MS** Units: **mg/L** Analysis Date: **25-Jul-2025 16:13**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958184** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.746	0.100	2	0	87.3	80 - 120				
Chloride	43.26	0.500	10	33.98	92.8	80 - 120				
Sulfate	27.82	0.500	10	18.52	93.0	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518436 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 18:45**
Client ID: **LDNR-05** Run ID: **ICS-Integrion_518436** SeqNo: **8958206** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	17.43	1.00	20	0	87.1	80 - 120	17.44	0.109	20	
Chloride	300	5.00	100	201.5	98.5	80 - 120	304.1	1.35	20	
Sulfate	163.9	5.00	100	67.5	96.4	80 - 120	166	1.22	20	

MSD Sample ID: **HS25071234-21MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 16:19**
Client ID: Run ID: **ICS-Integrion_518436** SeqNo: **8958185** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.772	0.100	2	0	88.6	80 - 120	1.746	1.47	20	
Chloride	43.35	0.500	10	33.98	93.7	80 - 120	43.26	0.203	20	
Sulfate	27.83	0.500	10	18.52	93.1	80 - 120	27.82	0.0539	20	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518450 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 09:00**
Client ID: Run ID: **Balance1_518450** SeqNo: **8958715** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 09:00**
Client ID: Run ID: **Balance1_518450** SeqNo: **8958714** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1020	10.0	1000	0	102	85 - 115				

DUP Sample ID: **HS25071343-01DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 09:00**
Client ID: **LDNR-05** Run ID: **Balance1_518450** SeqNo: **8958706** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	724	10.0					728	0.551	20	

DUP Sample ID: **HS25071322-01DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 09:00**
Client ID: Run ID: **Balance1_518450** SeqNo: **8958702** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	3560	10.0					3420	4.01	20	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518451 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: Run ID: **Balance1_518451** SeqNo: **8958739** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-07262025** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: Run ID: **Balance1_518451** SeqNo: **8958738** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	974	10.0	1000	0	97.4	85 - 115				

DUP Sample ID: **HS25071343-10DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: **MW-3-500** Run ID: **Balance1_518451** SeqNo: **8958735** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	2260	10.0					2320	2.62	20	

DUP Sample ID: **HS25071096-01DUP** Units: **mg/L** Analysis Date: **26-Jul-2025 10:00**
Client ID: Run ID: **Balance1_518451** SeqNo: **8958717** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1680	10.0					1600	4.88	20	

The following samples were analyzed in this batch: HS25071343-09 HS25071343-10 HS25071343-11 HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518462 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F

MBLK Sample ID: **MBLK-R518462** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959331** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R518462** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959330** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.88	5.00	25	0	91.5	85 - 115				

LCSD Sample ID: **LCSD-R518462** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518462** SeqNo: **8959329** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.68	5.00	25	0	90.7	85 - 115	22.88	0.878	20	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: **LDNR-05** Run ID: **WetChem_HS_518462** SeqNo: **8959328** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.68	5.00	25	0.68	88.0	80 - 120				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: **LDNR-05** Run ID: **WetChem_HS_518462** SeqNo: **8959327** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.48	5.00	25	0.68	87.2	80 - 120	22.68	0.886	20	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: R518464 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R518464** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959407** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R518464** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959406** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.31	1.00	26.56	0	91.5	80 - 120				

LCSD Sample ID: **LCSD-R518464** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: Run ID: **WetChem_HS_518464** SeqNo: **8959405** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.1	1.00	26.56	0	90.7	80 - 120	24.31	0.878	20	

MS Sample ID: **HS25071343-01MS** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: **LDNR-05** Run ID: **WetChem_HS_518464** SeqNo: **8959409** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.1	1.00	26.56	0.7225	88.0	80 - 120				

MSD Sample ID: **HS25071343-01MSD** Units: **mg/L** Analysis Date: **25-Jul-2025 11:00**
Client ID: **LDNR-05** Run ID: **WetChem_HS_518464** SeqNo: **8959408** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.88	1.00	26.56	0.7225	87.2	80 - 120	24.1	0.886	20	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071343

QC BATCH REPORT

Batch ID: **R518491 (0)** **Instrument:** **WetChem_HS** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25071343-01DUP** Units: **pH Units** Analysis Date: **28-Jul-2025 10:00**
Client ID: **LDNR-05** Run ID: **WetChem_HS_518491** SeqNo: **8959955** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.77	1.00					7.76	0.129	10	
Temp Deg C @pH	21.8	0					21.8	0	10	

The following samples were analyzed in this batch:

HS25071343-01	HS25071343-02	HS25071343-03	HS25071343-04
HS25071343-05	HS25071343-06	HS25071343-07	HS25071343-08
HS25071343-09	HS25071343-10	HS25071343-11	HS25071343-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25071343**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C24-00224 / 2024	31-Jul-2025
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oklahoma	2023-140	31-Aug-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	T104704231 TX-C24-00130	30-Apr-2026
Utah	TX026932023-14	31-Jul-2025

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25071343 **Date/Time Received:** **24-Jul-2025 10:54**

Client Name: ERMSW-HOU **Received by:** **Edgar Zheku**

Completed By:	/S/ Kaycee Rogers	24-Jul-2025 18:51	**Reviewed by:**	/S/ Beverly Mustafa	25-Jul-2025 10:42
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	3 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:339491,341854, 339488
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.1UC/C, 2.2UC/C, 1.9UC/1.9C, 2.4UC/C, 3.6UC/3.6C	IR 37
Cooler(s)/Kit(s):	53442, 52893, 54104, 54105, 54097	
Date/Time sample(s) sent to storage:	07/24/2025 1851	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: FB-072325- chains states qty 11 received qty 10

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

COC ID: 339491

HS25071343 , WV

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information	
Purchase Order	07 /908	Project Name	Sulphur Dome
Work Order		Project Number	
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.
Send Report To	Scott Himes	Invoice Attn	Accounts Payable
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston, TX 77024
Phone	(281) 600-1002	Phone	(281) 600-1002
Fax	(281) 600-1001	Fax	(281) 600-1001
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com

A	8260_LL_W (Low Level VOC (8260) BTEX)
B	ICP-As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
C	HG_W (Mercury)
D	MA EPH_W_Le (MA EPH)
E	MA VPH_LA_W
F	9056_anions_W (Cl,SO4,Br) / pH
G	ALK_W 2320B (carb, bicarb)
H	H2S_W (H2S)
I	SULFID_4500S F (Sulfide)
J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LDNR-05	7/23/25	0900	GW	1,2,4,8	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	MS-LDNR-05		0900				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	MSD-LDNR-05		0900				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	LDNR-12		1235				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	LDNR-07		1300				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	LDNR-08		1320				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	LDNR-25		1420				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	LDNR-09		1530				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9	LDNR-19		1555				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	SW-Dup-01	7/23/25	99:99	GW	1,2,4,8	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Sampler(s) Please Print & Sign: Marcus Smith MS

Shipment Method: Drop off

Required Turnaround Time: (Check Box) [X] Standard Days [ ] Rush [ ] [ ] [ ]

Results Due Date:

Relinquished by:	Date: 7/23/25	Time: 1700	Received by:	10:54 S	Notes: ERM Sulphur Dome
Relinquished by:	Date: 7/24/25	Time: 1055	Received by (Laboratory):	07/24/25 08:10 EDT	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

Cooler ID	Cooler Temp.
54097	3.6
54105	2.7
54104	1.9
52843	2.2

QC Package: (Check One Box Below)
[X] Level I SW-846 / CLP
[ ] Reduced Deliverables (Level II)
[ ] Full Deliverables (Level III)
[ ] Level IV SW-846 / CLP
[ ] Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

IR32 (FC.C

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

COC ID: 341854

HS25071343

Environmental Resources Mgmt.
Sulphur Dome

, WV

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0775906	Project Name	Sulphur Dome	A	8260_LL_W (Low Level VOC (8260) BTEX)
Work Order		Project Number		B	ICPMS,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
Company Name	Environmental Resources Mgmt	Bill To Company	Environmental Resources Mgmt.	C	HG_W (Mercury)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D	MA EPH_W_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	9056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	ALK_W 2320B (carb., bicarb)
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SULFID_4500S F (Sulfide)
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	FB-072325	07-23-25	1600	W	1,2,4,8	11	X	X	X	X	X	X	X	X	X	X	
2	MW-3-500	↓	1030	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3	MW-3-200	↓	1230	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4	019-1603	↓	0810	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Scott Himes

Shipment Method: Drop off

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 7/24/25	Time: 1055	Received by:	Notes: ERM Sulphur Dome	
Relinquished by:	Date:	Time:	Received by (Laboratory): 1055 07/24/25	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ EDD (DoD/Other)
☐ EDD (Level IV)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody For

Page 3 of 3

COC ID: 339488

HS25071343

Environmental Resources Mgmt.

Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0777909	Project Name	Sulphur Dome	A	8260_LL_W (Low Level VOC (8260) BTEX)
Work Order		Project Number		B	ICPMS_As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C	HG_W (Mercury)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D	MA EPH_W_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	9056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston TX 77024	City/State/Zip	Houston TX 77024	G	ALK_W 2320B (carb, bicarb)
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SULFO_4500S F (Sulfide)
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CG-061125-236			W	1	2	X										
2	CG-061125-266																
3	CG-061125-215																
4	~~CG-061125-240~~ KB																
5	CG-061125-272																
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Scott Himes

Shipment Method: Drop off

Required Turnaround Time: (Check Box) [X] STD (10 WK Days) [ ] 5 (5 Days) [ ] 2 (2 Days) [ ] 1 (1 Day)

Results Due Date:

Relinquished by:	Date: 7/24/25	Time: 1055	Received by: FED EX	Notes: ERM Sulphur Dome	
Relinquished by:	Date:	Time:	Received by (Laboratory): 07/24/25	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

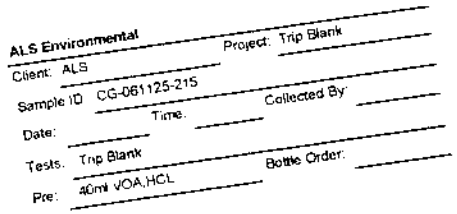
QC Package: (Check One Box Below) [X] Level [ ] [ ] [ ] [ ]

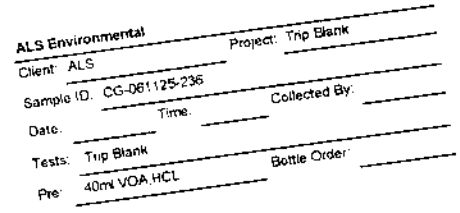
Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

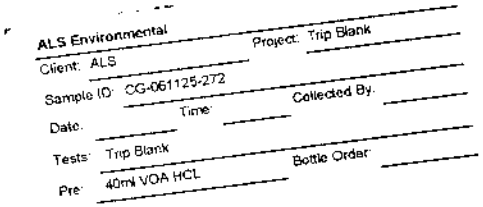
Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

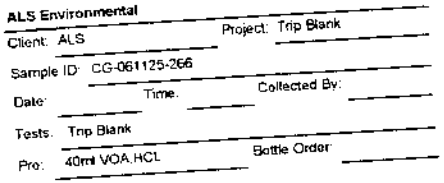
Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER









RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 31, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25071456**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 18 sample(s) on Jul 25, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: DAYNA.FISHER
Alexis Dorenbosch

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25071456

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25071456-01	LDNR-23	Water		24-Jul-2025 08:10	25-Jul-2025 16:30	☐
HS25071456-02	LDNR-01	Water		24-Jul-2025 10:50	25-Jul-2025 16:30	☐
HS25071456-03	PPG-7B-B5	Water		24-Jul-2025 11:20	25-Jul-2025 16:30	☐
HS25071456-04	LDNR-18	Water		24-Jul-2025 08:25	25-Jul-2025 16:30	☐
HS25071456-05	LDNR-21	Water		24-Jul-2025 08:40	25-Jul-2025 16:30	☐
HS25071456-06	LDNR-22	Water		24-Jul-2025 09:00	25-Jul-2025 16:30	☐
HS25071456-07	MW-2-500	Water		24-Jul-2025 13:30	25-Jul-2025 16:30	☐
HS25071456-08	MW-3-700	Water		24-Jul-2025 10:50	25-Jul-2025 16:30	☐
HS25071456-09	MW-3-500 (Purged)	Water		24-Jul-2025 08:45	25-Jul-2025 16:30	☐
HS25071456-10	GW-Rinsate	Water		24-Jul-2025 09:30	25-Jul-2025 16:30	☐
HS25071456-11	COTTAGE	Water		24-Jul-2025 12:10	25-Jul-2025 16:30	☐
HS25071456-12	GW-DUP	Water		24-Jul-2025 00:00	25-Jul-2025 16:30	☐
HS25071456-13	FB-072425	Water		24-Jul-2025 15:15	25-Jul-2025 16:30	☐
HS25071456-14	CG-061125-240	Water	CG-061125-240	24-Jul-2025 00:00	25-Jul-2025 16:30	☐
HS25071456-15	CG-061125-257	Water	CG-061125-257	24-Jul-2025 00:00	25-Jul-2025 16:30	☐
HS25071456-16	CG-061125-273	Water	CG-061125-273	24-Jul-2025 00:00	25-Jul-2025 16:30	☐
HS25071456-17	CG-032625-478	Water	CG-032625-478	24-Jul-2025 00:00	25-Jul-2025 16:30	☐
HS25071456-18	CG-061125-264	Water	CG-061125-264	24-Jul-2025 00:00	25-Jul-2025 16:30	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071456

Work Order Comments

- Login Notes:
  Samples PPG-7B-B5 and FB-0724-25 all 6 of 6 vials received with headspace. Per client email on July 29, 2025, cancelled the BTEX or VPH on these samples.
  Sample MW-2-500 (MS/MSD) 3 of 18 vials have headspace. Enough sample remains to perform MS/MSD on this sample.

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

  The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GC Semivolatiles by Method MA EPH

Batch ID: 231010

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R518601,R518684,R518686

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R518659

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 231156

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: 231145

Sample ID: PPG-7B-B5 (HS25071456-03MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: PPG-7B-B5 (HS25071456-03MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25071456

Metals by Method SW6020A

Batch ID: 231043

Sample ID: MW-2-500 (HS25071456-07MS)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Potassium, Sodium.

Sample ID: MW-2-500 (HS25071456-07PDS)

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Potassium, Sodium.

Sample ID: PPG-7B-B5 (HS25071456-03)

- The reporting limit(s) is/are elevated due to dilution for high concentrations of non-target analytes.

WetChemistry by Method M2540C

Batch ID: R518680

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: R518729

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E376.1

Batch ID: R518730

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R518576

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R518559

Sample ID: MW-3-700 (HS25071456-08)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Sulfate)

Sample ID: PPG-7B-B5 (HS25071456-03)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Bromide)

WetChemistry by Method SM2320B

Batch ID: R518547

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-23
Collection Date: 24-Jul-2025 08:10

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 14:30
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 14:30
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 14:30
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 14:30
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 14:30
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 14:30
Surr: 1,2-Dichloroethane-d4	*111*			*70-126*	*%REC*	*1*	*29-Jul-2025 14:30*
Surr: 4-Bromofluorobenzene	*110*			*77-113*	*%REC*	*1*	*29-Jul-2025 14:30*
Surr: Dibromofluoromethane	*110*			*77-123*	*%REC*	*1*	*29-Jul-2025 14:30*
Surr: Toluene-d8	*96.8*			*82-127*	*%REC*	*1*	*29-Jul-2025 14:30*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	28-Jul-2025 16:31
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	28-Jul-2025 16:31
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	29-Jul-2025 18:32
Surr: 2,5-Dibromotoluene (Aliphatic)	*103*			*70-130*	*%REC*	*1*	*28-Jul-2025 16:31*
Surr: 2,5-Dibromotoluene (Aromatic)	*111*			*70-130*	*%REC*	*1*	*29-Jul-2025 18:32*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 15:12
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 15:12
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 15:12
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 15:12
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 15:12
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 15:12
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 15:12
Surr: 1-Chlorooctadecane	*72.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:12*
Surr: 2-Bromonaphthalene	*84.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:12*
Surr: 2-Fluorobiphenyl	*82.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:12*
Surr: o-Terphenyl	*71.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-23
Collection Date: 24-Jul-2025 08:10

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00103**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:14
Barium	**0.261**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:14
Calcium	**60.0**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 17:14
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 17:14
Iron	**0.0887**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:14
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:14
Magnesium	**12.1**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:14
Manganese	**3.54**		**0.0140**	**0.100**	**mg/L**	20	29-Jul-2025 18:57
Nickel	**0.000708**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 17:14
Potassium	**2.33**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 17:14
Sodium	**121**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 17:14
Strontium	**0.463**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 17:14
Vanadium	**0.000786**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 17:14
Zinc	**0.00204**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:14
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 14:34
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**604**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**130**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 15:30
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 15:30
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.61**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**21.3**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 15:14
Chloride	**222**		**2.00**	**5.00**	**mg/L**	10	28-Jul-2025 15:37
Sulfate	**83.4**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 15:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-01
Collection Date: 24-Jul-2025 10:50

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	29-Jul-2025 14:50
Ethylbenzene	U		0.00033	0.0020	mg/L	1	29-Jul-2025 14:50
m,p-Xylene	U		0.00061	0.0040	mg/L	1	29-Jul-2025 14:50
o-Xylene	U		0.00031	0.0020	mg/L	1	29-Jul-2025 14:50
Toluene	U		0.00033	0.0020	mg/L	1	29-Jul-2025 14:50
Xylenes, Total	U		0.00092	0.0060	mg/L	1	29-Jul-2025 14:50
Surr: 1,2-Dichloroethane-d4	*110*			*70-126*	*%REC*	*1*	*29-Jul-2025 14:50*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*29-Jul-2025 14:50*
Surr: Dibromofluoromethane	*111*			*77-123*	*%REC*	*1*	*29-Jul-2025 14:50*
Surr: Toluene-d8	*98.3*			*82-127*	*%REC*	*1*	*29-Jul-2025 14:50*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	U		0.00180	0.00500	mg/L	1	28-Jul-2025 17:10
Aliphatics >C8 - C10	U		0.000400	0.00500	mg/L	1	28-Jul-2025 17:10
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	29-Jul-2025 19:11
Surr: 2,5-Dibromotoluene (Aliphatic)	*94.5*			*70-130*	*%REC*	*1*	*28-Jul-2025 17:10*
Surr: 2,5-Dibromotoluene (Aromatic)	*91.9*			*70-130*	*%REC*	*1*	*29-Jul-2025 19:11*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 15:40
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 15:40
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 15:40
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 15:40
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 15:40
Aromatics >C16 - C21	**0.0346**	J	**0.0250**	**0.100**	**mg/L**	1	29-Jul-2025 15:40
Aromatics >C21 - C35	**0.0315**	J	**0.0250**	**0.100**	**mg/L**	1	29-Jul-2025 15:40
Surr: 1-Chlorooctadecane	*68.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:40*
Surr: 2-Bromonaphthalene	*98.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:40*
Surr: 2-Fluorobiphenyl	*93.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:40*
Surr: o-Terphenyl	*71.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 15:40*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-01
Collection Date: 24-Jul-2025 10:50

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00415**		**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:26
Barium	**0.251**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:26
Calcium	**119**		**0.170**	**2.50**	**mg/L**	5	30-Jul-2025 10:37
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 17:26
Iron	**1.45**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:26
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:26
Magnesium	**25.8**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:26
Manganese	**1.19**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 17:26
Nickel	**0.00184**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 17:26
Potassium	**4.20**		**0.0900**	**1.00**	**mg/L**	5	30-Jul-2025 10:37
Sodium	**180**		**0.0700**	**1.00**	**mg/L**	5	30-Jul-2025 10:37
Strontium	**0.903**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 17:26
Vanadium	**0.00462**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 17:26
Zinc	**0.00481**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:26
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 14:36
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.62**		**0.500**	**1.00**	**mg/L**	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**1,000**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**254**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 15:36
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 15:36
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.52**	J	**0.920**	**5.00**	**mg/L**	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.46**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**21.2**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 15:20
Chloride	**374**		**2.00**	**5.00**	**mg/L**	10	28-Jul-2025 15:43
Sulfate	**57.6**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 15:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-7B-B5
Collection Date: 24-Jul-2025 11:20

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 16:09
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 16:09
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 16:09
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 16:09
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 16:09
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	29-Jul-2025 16:09
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 16:09
Surr: 1-Chlorooctadecane	*75.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:09*
Surr: 2-Bromonaphthalene	*88.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:09*
Surr: 2-Fluorobiphenyl	*86.5*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:09*
Surr: o-Terphenyl	*78.5*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:09*
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	U		0.0200	0.100	mg/L	50	29-Jul-2025 18:33
Barium	**1.29**		**0.0950**	**0.200**	**mg/L**	50	29-Jul-2025 18:33
Calcium	**183**		**1.70**	**25.0**	**mg/L**	50	29-Jul-2025 18:33
Chromium	U		0.0200	0.200	mg/L	50	29-Jul-2025 18:33
Iron	**3.04**	J	**0.600**	**10.0**	**mg/L**	50	29-Jul-2025 18:33
Lead	U		0.0300	0.100	mg/L	50	29-Jul-2025 18:33
Magnesium	**3.90**	J	**0.500**	**10.0**	**mg/L**	50	29-Jul-2025 18:33
Manganese	**0.643**		**0.0350**	**0.250**	**mg/L**	50	29-Jul-2025 18:33
Nickel	U		0.0300	0.100	mg/L	50	29-Jul-2025 18:33
Potassium	**7.87**	J	**0.900**	**10.0**	**mg/L**	50	29-Jul-2025 18:33
Sodium	**39,000**		**70.0**	**1000**	**mg/L**	5000	30-Jul-2025 10:47
Strontium	**0.984**		**0.0100**	**0.250**	**mg/L**	50	29-Jul-2025 18:33
Vanadium	U		0.0300	0.250	mg/L	50	29-Jul-2025 18:33
Zinc	**3.05**		**0.100**	**0.200**	**mg/L**	50	29-Jul-2025 18:33
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 14:38
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**85,600**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**142**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 15:41
Alkalinity, Carbonate (As CaCO3)	**10.2**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 15:41
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-7B-B5
Collection Date: 24-Jul-2025 11:20

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: CD
pH	**8.35**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**21.5**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		1.50	5.00	mg/L	50	28-Jul-2025 15:26
Chloride	**52,600**		**200**	**500**	**mg/L**	1000	28-Jul-2025 15:49
Sulfate	**247**		**10.0**	**25.0**	**mg/L**	50	28-Jul-2025 15:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-18
Collection Date: 24-Jul-2025 08:25

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 15:31
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 15:31
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 15:31
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 15:31
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 15:31
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 15:31
Surr: 1,2-Dichloroethane-d4	*109*			*70-126*	*%REC*	*1*	*29-Jul-2025 15:31*
Surr: 4-Bromofluorobenzene	*109*			*77-113*	*%REC*	*1*	*29-Jul-2025 15:31*
Surr: Dibromofluoromethane	*111*			*77-123*	*%REC*	*1*	*29-Jul-2025 15:31*
Surr: Toluene-d8	*96.1*			*82-127*	*%REC*	*1*	*29-Jul-2025 15:31*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	28-Jul-2025 18:27
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	28-Jul-2025 18:27
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	29-Jul-2025 20:28
Surr: 2,5-Dibromotoluene (Aliphatic)	*107*			*70-130*	*%REC*	*1*	*28-Jul-2025 18:27*
Surr: 2,5-Dibromotoluene (Aromatic)	*98.8*			*70-130*	*%REC*	*1*	*29-Jul-2025 20:28*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 16:38
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 16:38
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 16:38
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 16:38
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 16:38
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 16:38
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 16:38
Surr: 1-Chlorooctadecane	*69.0*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:38*
Surr: 2-Bromonaphthalene	*87.6*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:38*
Surr: 2-Fluorobiphenyl	*86.6*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:38*
Surr: o-Terphenyl	*70.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 16:38*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-18
Collection Date: 24-Jul-2025 08:25

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.000923**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:32
Barium	**0.176**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:32
Calcium	**65.0**		**0.170**	**2.50**	**mg/L**	5	30-Jul-2025 10:39
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 17:32
Iron	**0.0591**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:32
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:32
Magnesium	**13.5**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:32
Manganese	**1.60**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 17:32
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:32
Potassium	**2.58**		**0.0900**	**1.00**	**mg/L**	5	30-Jul-2025 10:39
Sodium	**129**		**0.0700**	**1.00**	**mg/L**	5	30-Jul-2025 10:39
Strontium	**0.466**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 17:32
Vanadium	**0.00101**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 17:32
Zinc	**0.00281**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:32
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 14:53
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.552**	J	**0.500**	**1.00**	**mg/L**	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**640**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**149**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 15:47
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 15:47
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.54**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.3**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 15:31
Chloride	**214**		**2.00**	**5.00**	**mg/L**	10	28-Jul-2025 15:55
Sulfate	**74.0**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 15:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-21
Collection Date: 24-Jul-2025 08:40

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 15:52
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 15:52
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 15:52
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 15:52
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 15:52
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 15:52
Surr: 1,2-Dichloroethane-d4	*109*			*70-126*	*%REC*	*1*	*29-Jul-2025 15:52*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*29-Jul-2025 15:52*
Surr: Dibromofluoromethane	*110*			*77-123*	*%REC*	*1*	*29-Jul-2025 15:52*
Surr: Toluene-d8	*96.3*			*82-127*	*%REC*	*1*	*29-Jul-2025 15:52*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	28-Jul-2025 19:06
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	28-Jul-2025 19:06
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	29-Jul-2025 21:07
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.6*			*70-130*	*%REC*	*1*	*28-Jul-2025 19:06*
Surr: 2,5-Dibromotoluene (Aromatic)	*101*			*70-130*	*%REC*	*1*	*29-Jul-2025 21:07*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 17:07
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 17:07
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 17:07
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 17:07
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 17:07
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 17:07
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 17:07
Surr: 1-Chlorooctadecane	*68.6*			*40-140*	*%REC*	*1*	*29-Jul-2025 17:07*
Surr: 2-Bromonaphthalene	*90.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 17:07*
Surr: 2-Fluorobiphenyl	*89.0*			*40-140*	*%REC*	*1*	*29-Jul-2025 17:07*
Surr: o-Terphenyl	*73.5*			*40-140*	*%REC*	*1*	*29-Jul-2025 17:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-21
Collection Date: 24-Jul-2025 08:40

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00106**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:34
Barium	**0.206**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:34
Calcium	**63.8**		**0.170**	**2.50**	**mg/L**	5	30-Jul-2025 10:41
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 17:34
Iron	**0.0529**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:34
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:34
Magnesium	**13.4**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:34
Manganese	**2.09**		**0.0140**	**0.100**	**mg/L**	20	29-Jul-2025 19:05
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:34
Potassium	**2.42**		**0.0900**	**1.00**	**mg/L**	5	30-Jul-2025 10:41
Sodium	**125**		**0.0700**	**1.00**	**mg/L**	5	30-Jul-2025 10:41
Strontium	**0.506**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 17:34
Vanadium	**0.000889**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 17:34
Zinc	**0.00220**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:34
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 14:55
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.552**	J	**0.500**	**1.00**	**mg/L**	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**652**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**148**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 15:52
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 15:52
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.57**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 16:30
Chloride	**215**		**2.00**	**5.00**	**mg/L**	10	28-Jul-2025 16:42
Sulfate	**73.9**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 16:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-22
Collection Date: 24-Jul-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 16:12
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 16:12
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 16:12
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 16:12
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 16:12
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 16:12
Surr: 1,2-Dichloroethane-d4	*114*			*70-126*	*%REC*	*1*	*29-Jul-2025 16:12*
Surr: 4-Bromofluorobenzene	*108*			*77-113*	*%REC*	*1*	*29-Jul-2025 16:12*
Surr: Dibromofluoromethane	*115*			*77-123*	*%REC*	*1*	*29-Jul-2025 16:12*
Surr: Toluene-d8	*96.7*			*82-127*	*%REC*	*1*	*29-Jul-2025 16:12*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	28-Jul-2025 19:45
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	28-Jul-2025 19:45
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	29-Jul-2025 21:46
Surr: 2,5-Dibromotoluene (Aliphatic)	*97.5*			*70-130*	*%REC*	*1*	*28-Jul-2025 19:45*
Surr: 2,5-Dibromotoluene (Aromatic)	*95.5*			*70-130*	*%REC*	*1*	*29-Jul-2025 21:46*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 18:33
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 18:33
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 18:33
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 18:33
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 18:33
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 18:33
Aromatics >C21 - C35	**0.120**		**0.0250**	**0.100**	**mg/L**	1	29-Jul-2025 18:33
Surr: 1-Chlorooctadecane	*65.3*			*40-140*	*%REC*	*1*	*29-Jul-2025 18:33*
Surr: 2-Bromonaphthalene	*94.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 18:33*
Surr: 2-Fluorobiphenyl	*92.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 18:33*
Surr: o-Terphenyl	*64.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 18:33*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LDNR-22
Collection Date: 24-Jul-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00114**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:37
Barium	**0.184**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:37
Calcium	**63.0**		**0.170**	**2.50**	**mg/L**	5	30-Jul-2025 10:43
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 17:37
Iron	**0.0432**	J	**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:37
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:37
Magnesium	**14.4**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:37
Manganese	**2.57**		**0.0140**	**0.100**	**mg/L**	20	29-Jul-2025 19:07
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:37
Potassium	**2.43**		**0.0900**	**1.00**	**mg/L**	5	30-Jul-2025 10:43
Sodium	**142**		**0.0700**	**1.00**	**mg/L**	5	30-Jul-2025 10:43
Strontium	**0.485**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 17:37
Vanadium	**0.000900**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 17:37
Zinc	**0.00263**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:37
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:03
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**632**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**127**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:11
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 16:11
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.61**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.5**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 16:36
Chloride	**228**		**2.00**	**5.00**	**mg/L**	10	28-Jul-2025 16:48
Sulfate	**79.0**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 16:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 24-Jul-2025 13:30

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	29-Jul-2025 16:33
Ethylbenzene	U		0.00033	0.0020	mg/L	1	29-Jul-2025 16:33
m,p-Xylene	**0.00064**	J	**0.00061**	**0.0040**	**mg/L**	1	29-Jul-2025 16:33
o-Xylene	**0.00072**	J	**0.00031**	**0.0020**	**mg/L**	1	29-Jul-2025 16:33
Toluene	**0.00044**	J	**0.00033**	**0.0020**	**mg/L**	1	29-Jul-2025 16:33
Xylenes, Total	**0.0014**	J	**0.00092**	**0.0060**	**mg/L**	1	29-Jul-2025 16:33
Surr: 1,2-Dichloroethane-d4	*110*			*70-126*	*%REC*	*1*	*29-Jul-2025 16:33*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*29-Jul-2025 16:33*
Surr: Dibromofluoromethane	*111*			*77-123*	*%REC*	*1*	*29-Jul-2025 16:33*
Surr: Toluene-d8	*96.1*			*82-127*	*%REC*	*1*	*29-Jul-2025 16:33*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	U		0.00180	0.00500	mg/L	1	29-Jul-2025 01:34
Aliphatics >C8 - C10	U		0.000400	0.00500	mg/L	1	29-Jul-2025 01:34
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	30-Jul-2025 03:34
Surr: 2,5-Dibromotoluene (Aliphatic)	*105*			*70-130*	*%REC*	*1*	*29-Jul-2025 01:34*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.7*			*70-130*	*%REC*	*1*	*30-Jul-2025 03:34*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 13:45
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 13:45
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 13:45
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 13:45
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 13:45
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	29-Jul-2025 13:45
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 13:45
Surr: 1-Chlorooctadecane	*70.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 13:45*
Surr: 2-Bromonaphthalene	*82.5*			*40-140*	*%REC*	*1*	*29-Jul-2025 13:45*
Surr: 2-Fluorobiphenyl	*84.3*			*40-140*	*%REC*	*1*	*29-Jul-2025 13:45*
Surr: o-Terphenyl	*63.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 13:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 24-Jul-2025 13:30

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00123**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:06
Barium	**0.128**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:06
Calcium	**12.5**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 17:06
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 17:06
Iron	**0.563**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:06
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:06
Magnesium	**1.95**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:06
Manganese	**0.113**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 17:06
Nickel	**0.000616**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 17:06
Potassium	**42.3**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 17:06
Sodium	**65.0**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 17:06
Strontium	**0.470**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 17:06
Vanadium	**0.000716**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 17:06
Zinc	**0.00307**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:06
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:04
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**21.8**		**0.500**	**1.00**	**mg/L**	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**296**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**38.9**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:16
Alkalinity, Carbonate (As CaCO3)	**149**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:16
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**20.5**		**0.920**	**5.00**	**mg/L**	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**10.3**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 17:05
Chloride	**40.3**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 17:05
Sulfate	**1.60**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 17:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 24-Jul-2025 10:50

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	29-Jul-2025 16:53
Ethylbenzene	U		0.00033	0.0020	mg/L	1	29-Jul-2025 16:53
m,p-Xylene	U		0.00061	0.0040	mg/L	1	29-Jul-2025 16:53
o-Xylene	U		0.00031	0.0020	mg/L	1	29-Jul-2025 16:53
Toluene	**0.00097**	J	**0.00033**	**0.0020**	**mg/L**	1	29-Jul-2025 16:53
Xylenes, Total	U		0.00092	0.0060	mg/L	1	29-Jul-2025 16:53
Surr: 1,2-Dichloroethane-d4	*111*			*70-126*	*%REC*	*1*	*29-Jul-2025 16:53*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*29-Jul-2025 16:53*
Surr: Dibromofluoromethane	*111*			*77-123*	*%REC*	*1*	*29-Jul-2025 16:53*
Surr: Toluene-d8	*96.8*			*82-127*	*%REC*	*1*	*29-Jul-2025 16:53*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**0.0215**		**0.00180**	**0.00500**	**mg/L**	1	28-Jul-2025 22:20
Aliphatics >C8 - C10	**0.0116**		**0.000400**	**0.00500**	**mg/L**	1	28-Jul-2025 22:20
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	30-Jul-2025 00:59
Surr: 2,5-Dibromotoluene (Aliphatic)	*117*			*70-130*	*%REC*	*1*	*28-Jul-2025 22:20*
Surr: 2,5-Dibromotoluene (Aromatic)	*97.2*			*70-130*	*%REC*	*1*	*30-Jul-2025 00:59*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:02
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:02
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:02
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:02
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:02
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:02
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:02
Surr: 1-Chlorooctadecane	*86.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:02*
Surr: 2-Bromonaphthalene	*87.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:02*
Surr: 2-Fluorobiphenyl	*87.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:02*
Surr: o-Terphenyl	*82.0*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:02*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 24-Jul-2025 10:50

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.000418**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:39
Barium	**1.71**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:39
Calcium	**112**		**0.680**	**10.0**	**mg/L**	20	29-Jul-2025 19:09
Chromium	**0.00270**	J	**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 17:39
Iron	**0.676**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:39
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:39
Magnesium	**16.5**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:39
Manganese	**0.0294**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 17:39
Nickel	**0.000910**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 17:39
Potassium	**27.8**		**0.360**	**4.00**	**mg/L**	20	29-Jul-2025 19:09
Sodium	**988**		**0.280**	**4.00**	**mg/L**	20	29-Jul-2025 19:09
Strontium	**2.87**		**0.00400**	**0.100**	**mg/L**	20	29-Jul-2025 19:09
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 17:39
Zinc	**0.00615**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:39
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:13
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**2.68**		**0.500**	**1.00**	**mg/L**	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**4,680**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**17.8**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:27
Alkalinity, Carbonate (As CaCO3)	**4.00**	J	**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:27
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**2.52**	J	**0.920**	**5.00**	**mg/L**	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.73**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.3**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**2.34**		**0.0600**	**0.200**	**mg/L**	2	28-Jul-2025 17:11
Chloride	**1,830**		**8.00**	**20.0**	**mg/L**	40	28-Jul-2025 17:17
Sulfate	U		0.400	1.00	mg/L	2	28-Jul-2025 17:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500 (Purged)
Collection Date: 24-Jul-2025 08:45

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	**0.0022**		**0.00028**	**0.0010**	**mg/L**	1	29-Jul-2025 17:14
Ethylbenzene	U		0.00033	0.0020	mg/L	1	29-Jul-2025 17:14
m,p-Xylene	U		0.00061	0.0040	mg/L	1	29-Jul-2025 17:14
o-Xylene	U		0.00031	0.0020	mg/L	1	29-Jul-2025 17:14
Toluene	**0.0018**	J	**0.00033**	**0.0020**	**mg/L**	1	29-Jul-2025 17:14
Xylenes, Total	U		0.00092	0.0060	mg/L	1	29-Jul-2025 17:14
Surr: 1,2-Dichloroethane-d4	*116*			*70-126*	*%REC*	*1*	*29-Jul-2025 17:14*
Surr: 4-Bromofluorobenzene	*109*			*77-113*	*%REC*	*1*	*29-Jul-2025 17:14*
Surr: Dibromofluoromethane	*113*			*77-123*	*%REC*	*1*	*29-Jul-2025 17:14*
Surr: Toluene-d8	*98.2*			*82-127*	*%REC*	*1*	*29-Jul-2025 17:14*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**1.13**		**0.0450**	**0.125**	**mg/L**	25	29-Jul-2025 22:25
Aliphatics >C8 - C10	**0.161**		**0.0100**	**0.125**	**mg/L**	25	29-Jul-2025 22:25
Aromatics >C8 - C10	U		0.0150	0.500	mg/L	25	29-Jul-2025 22:25
Surr: 2,5-Dibromotoluene (Aliphatic)	*106*			*70-130*	*%REC*	*25*	*29-Jul-2025 22:25*
Surr: 2,5-Dibromotoluene (Aromatic)	*105*			*70-130*	*%REC*	*25*	*29-Jul-2025 22:25*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:31
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:31
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:31
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:31
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:31
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:31
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 19:31
Surr: 1-Chlorooctadecane	*74.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:31*
Surr: 2-Bromonaphthalene	*91.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:31*
Surr: 2-Fluorobiphenyl	*92.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:31*
Surr: o-Terphenyl	*76.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 19:31*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500 (Purged)
Collection Date: 24-Jul-2025 08:45

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.000585**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 17:41
Barium	**0.153**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:41
Calcium	**262**		**1.70**	**25.0**	**mg/L**	50	29-Jul-2025 19:11
Chromium	**0.00137**	J	**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 17:41
Iron	**2.78**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:41
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:41
Magnesium	**38.6**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:41
Manganese	**0.208**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 17:41
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:41
Potassium	**17.1**		**0.900**	**10.0**	**mg/L**	50	29-Jul-2025 19:11
Sodium	**1,110**		**0.700**	**10.0**	**mg/L**	50	29-Jul-2025 19:11
Strontium	**7.69**		**0.0100**	**0.250**	**mg/L**	50	29-Jul-2025 19:11
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 17:41
Zinc	**0.0123**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:41
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:14
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**2,620**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**63.6**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:32
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 16:32
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.15**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.5**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**0.205**		**0.0600**	**0.200**	**mg/L**	2	28-Jul-2025 17:46
Chloride	**1,760**		**8.00**	**20.0**	**mg/L**	40	28-Jul-2025 17:52
Sulfate	**597**		**8.00**	**20.0**	**mg/L**	40	28-Jul-2025 17:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 24-Jul-2025 09:30

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 12:06
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 12:06
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 12:06
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 12:06
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 12:06
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 12:06
Surr: 1,2-Dichloroethane-d4	*107*			*70-126*	*%REC*	*1*	*29-Jul-2025 12:06*
Surr: 4-Bromofluorobenzene	*109*			*77-113*	*%REC*	*1*	*29-Jul-2025 12:06*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*29-Jul-2025 12:06*
Surr: Toluene-d8	*98.3*			*82-127*	*%REC*	*1*	*29-Jul-2025 12:06*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	28-Jul-2025 23:38
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	28-Jul-2025 23:38
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	30-Jul-2025 01:38
Surr: 2,5-Dibromotoluene (Aliphatic)	*102*			*70-130*	*%REC*	*1*	*28-Jul-2025 23:38*
Surr: 2,5-Dibromotoluene (Aromatic)	*99.3*			*70-130*	*%REC*	*1*	*30-Jul-2025 01:38*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:00
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:00
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:00
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:00
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:00
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:00
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:00
Surr: 1-Chlorooctadecane	*61.6*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:00*
Surr: 2-Bromonaphthalene	*92.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:00*
Surr: 2-Fluorobiphenyl	*90.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:00*
Surr: o-Terphenyl	*62.9*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:00*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 24-Jul-2025 09:30

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2025 17:43
Barium	**0.00568**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 17:43
Calcium	**0.520**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 18:47
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 17:43
Iron	**0.236**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 17:43
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 17:43
Magnesium	**0.0840**	J	**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 17:43
Manganese	**0.00198**	J	**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 17:43
Nickel	**0.00141**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 17:43
Potassium	**0.0756**	J	**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 18:47
Sodium	**1.08**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 18:47
Strontium	**0.00771**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 17:43
Vanadium	**0.000713**	J	**0.000600**	**0.00500**	**mg/L**	1	29-Jul-2025 17:43
Zinc	**0.00864**		**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 17:43
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:16
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**310**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**2.50**	J	**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:37
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 16:37
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**6.91**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.9**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 17:58
Chloride	**0.519**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 17:58
Sulfate	**0.414**	J	**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 17:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: COTTAGE
Collection Date: 24-Jul-2025 12:10

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 17:34
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 17:34
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 17:34
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 17:34
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 17:34
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 17:34
Surr: 1,2-Dichloroethane-d4	*112*			*70-126*	*%REC*	*1*	*29-Jul-2025 17:34*
Surr: 4-Bromofluorobenzene	*109*			*77-113*	*%REC*	*1*	*29-Jul-2025 17:34*
Surr: Dibromofluoromethane	*113*			*77-123*	*%REC*	*1*	*29-Jul-2025 17:34*
Surr: Toluene-d8	*98.4*			*82-127*	*%REC*	*1*	*29-Jul-2025 17:34*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	29-Jul-2025 00:16
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	29-Jul-2025 00:16
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	30-Jul-2025 02:17
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.8*			*70-130*	*%REC*	*1*	*29-Jul-2025 00:16*
Surr: 2,5-Dibromotoluene (Aromatic)	*86.4*			*70-130*	*%REC*	*1*	*30-Jul-2025 02:17*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:29
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:29
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:29
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:29
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:29
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:29
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	29-Jul-2025 20:29
Surr: 1-Chlorooctadecane	*68.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:29*
Surr: 2-Bromonaphthalene	*90.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:29*
Surr: 2-Fluorobiphenyl	*88.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:29*
Surr: o-Terphenyl	*70.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: COTTAGE
Collection Date: 24-Jul-2025 12:10

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.000428**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 18:35
Barium	**0.184**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 18:35
Calcium	**13.6**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 18:35
Chromium	**0.0139**		**0.000400**	**0.00400**	**mg/L**	1	29-Jul-2025 18:35
Iron	**4.21**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 18:35
Lead	**0.00388**		**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 18:35
Magnesium	**3.69**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 18:35
Manganese	**0.170**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 18:35
Nickel	**0.00556**		**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 18:35
Potassium	**2.19**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 18:35
Sodium	**71.0**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 18:35
Strontium	**0.160**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 18:35
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 18:35
Zinc	**3.65**		**0.0400**	**0.0800**	**mg/L**	20	30-Jul-2025 10:49
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:18
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**288**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**141**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:43
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 16:43
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.43**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**23.0**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**0.128**		**0.0300**	**0.100**	**mg/L**	1	28-Jul-2025 18:04
Chloride	**55.8**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 18:04
Sulfate	U		0.200	0.500	mg/L	1	28-Jul-2025 18:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 24-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	29-Jul-2025 17:55
Ethylbenzene	U		0.00033	0.0020	mg/L	1	29-Jul-2025 17:55
m,p-Xylene	**0.00079**	J	**0.00061**	**0.0040**	**mg/L**	1	29-Jul-2025 17:55
o-Xylene	**0.00073**	J	**0.00031**	**0.0020**	**mg/L**	1	29-Jul-2025 17:55
Toluene	**0.00051**	J	**0.00033**	**0.0020**	**mg/L**	1	29-Jul-2025 17:55
Xylenes, Total	**0.0015**	J	**0.00092**	**0.0060**	**mg/L**	1	29-Jul-2025 17:55
Surr: 1,2-Dichloroethane-d4	*109*			*70-126*	*%REC*	*1*	*29-Jul-2025 17:55*
Surr: 4-Bromofluorobenzene	*110*			*77-113*	*%REC*	*1*	*29-Jul-2025 17:55*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*29-Jul-2025 17:55*
Surr: Toluene-d8	*97.5*			*82-127*	*%REC*	*1*	*29-Jul-2025 17:55*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	U		0.00180	0.00500	mg/L	1	29-Jul-2025 00:55
Aliphatics >C8 - C10	U		0.000400	0.00500	mg/L	1	29-Jul-2025 00:55
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	30-Jul-2025 02:55
Surr: 2,5-Dibromotoluene (Aliphatic)	*104*			*70-130*	*%REC*	*1*	*29-Jul-2025 00:55*
Surr: 2,5-Dibromotoluene (Aromatic)	*102*			*70-130*	*%REC*	*1*	*30-Jul-2025 02:55*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 20:58
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 20:58
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 20:58
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 20:58
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 20:58
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	29-Jul-2025 20:58
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 20:58
Surr: 1-Chlorooctadecane	*64.4*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:58*
Surr: 2-Bromonaphthalene	*88.5*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:58*
Surr: 2-Fluorobiphenyl	*86.7*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:58*
Surr: o-Terphenyl	*66.0*			*40-140*	*%REC*	*1*	*29-Jul-2025 20:58*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 24-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	**0.00128**	J	**0.000400**	**0.00200**	**mg/L**	1	29-Jul-2025 18:37
Barium	**0.144**		**0.00190**	**0.00400**	**mg/L**	1	29-Jul-2025 18:37
Calcium	**14.1**		**0.0340**	**0.500**	**mg/L**	1	29-Jul-2025 18:37
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 18:37
Iron	**1.02**		**0.0120**	**0.200**	**mg/L**	1	29-Jul-2025 18:37
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 18:37
Magnesium	**2.23**		**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 18:37
Manganese	**0.127**		**0.000700**	**0.00500**	**mg/L**	1	29-Jul-2025 18:37
Nickel	**0.000676**	J	**0.000600**	**0.00200**	**mg/L**	1	29-Jul-2025 18:37
Potassium	**50.6**		**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 18:37
Sodium	**75.4**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 18:37
Strontium	**0.538**		**0.000200**	**0.00500**	**mg/L**	1	29-Jul-2025 18:37
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 18:37
Zinc	**0.00338**	J	**0.00200**	**0.00400**	**mg/L**	1	29-Jul-2025 18:37
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:20
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**286**		**3.00**	**10.0**	**mg/L**	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**40.9**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:48
Alkalinity, Carbonate (As CaCO3)	**149**		**1.20**	**5.00**	**mg/L**	1	28-Jul-2025 16:48
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**10.3**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**22.9**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 18:09
Chloride	**40.3**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 18:09
Sulfate	**1.59**		**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 18:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072425
Collection Date: 24-Jul-2025 15:15

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 29-Jul-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 21:27
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 21:27
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 21:27
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	29-Jul-2025 21:27
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	29-Jul-2025 21:27
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	29-Jul-2025 21:27
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	29-Jul-2025 21:27
Surr: 1-Chlorooctadecane	*60.0*			*40-140*	*%REC*	*1*	*29-Jul-2025 21:27*
Surr: 2-Bromonaphthalene	*81.1*			*40-140*	*%REC*	*1*	*29-Jul-2025 21:27*
Surr: 2-Fluorobiphenyl	*79.8*			*40-140*	*%REC*	*1*	*29-Jul-2025 21:27*
Surr: o-Terphenyl	*57.2*			*40-140*	*%REC*	*1*	*29-Jul-2025 21:27*
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 29-Jul-2025		Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2025 18:39
Barium	U		0.00190	0.00400	mg/L	1	29-Jul-2025 18:39
Calcium	U		0.0340	0.500	mg/L	1	29-Jul-2025 18:39
Chromium	U		0.000400	0.00400	mg/L	1	29-Jul-2025 18:39
Iron	U		0.0120	0.200	mg/L	1	29-Jul-2025 18:39
Lead	U		0.000600	0.00200	mg/L	1	29-Jul-2025 18:39
Magnesium	**0.0157**	J	**0.0100**	**0.200**	**mg/L**	1	29-Jul-2025 18:39
Manganese	U		0.000700	0.00500	mg/L	1	29-Jul-2025 18:39
Nickel	U		0.000600	0.00200	mg/L	1	29-Jul-2025 18:39
Potassium	**0.0492**	J	**0.0180**	**0.200**	**mg/L**	1	29-Jul-2025 18:39
Sodium	**0.263**		**0.0140**	**0.200**	**mg/L**	1	29-Jul-2025 18:39
Strontium	U		0.000200	0.00500	mg/L	1	29-Jul-2025 18:39
Vanadium	U		0.000600	0.00500	mg/L	1	29-Jul-2025 18:39
Zinc	U		0.00200	0.00400	mg/L	1	29-Jul-2025 18:39
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 31-Jul-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	31-Jul-2025 15:21
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.552**	J	**0.500**	**1.00**	**mg/L**	1	30-Jul-2025 10:30
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	29-Jul-2025 12:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 16:52
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	28-Jul-2025 16:52
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Jul-2025 10:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-072425
Collection Date: 24-Jul-2025 15:15

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: CD
pH	**5.37**	H	**0.100**	**1.00**	**pH Units**	1	29-Jul-2025 10:34
Temp Deg C @pH	**23.1**	H	**0**	**0**	**°C**	1	29-Jul-2025 10:34
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	28-Jul-2025 18:15
Chloride	**0.225**	J	**0.200**	**0.500**	**mg/L**	1	28-Jul-2025 18:15
Sulfate	U		0.200	0.500	mg/L	1	28-Jul-2025 18:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-240
Collection Date: 24-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 12:47
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 12:47
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 12:47
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 12:47
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 12:47
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 12:47
Surr: 1,2-Dichloroethane-d4	*109*			*70-126*	*%REC*	*1*	*29-Jul-2025 12:47*
Surr: 4-Bromofluorobenzene	*110*			*77-113*	*%REC*	*1*	*29-Jul-2025 12:47*
Surr: Dibromofluoromethane	*110*			*77-123*	*%REC*	*1*	*29-Jul-2025 12:47*
Surr: Toluene-d8	*97.5*			*82-127*	*%REC*	*1*	*29-Jul-2025 12:47*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-257
Collection Date: 24-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 13:08
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 13:08
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 13:08
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 13:08
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 13:08
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 13:08
Surr: 1,2-Dichloroethane-d4	*106*			*70-126*	*%REC*	*1*	*29-Jul-2025 13:08*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*29-Jul-2025 13:08*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*29-Jul-2025 13:08*
Surr: Toluene-d8	*95.6*			*82-127*	*%REC*	*1*	*29-Jul-2025 13:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-273
Collection Date: 24-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 13:28
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 13:28
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 13:28
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 13:28
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 13:28
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 13:28
Surr: 1,2-Dichloroethane-d4	*108*			*70-126*	*%REC*	*1*	*29-Jul-2025 13:28*
Surr: 4-Bromofluorobenzene	*111*			*77-113*	*%REC*	*1*	*29-Jul-2025 13:28*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*29-Jul-2025 13:28*
Surr: Toluene-d8	*98.4*			*82-127*	*%REC*	*1*	*29-Jul-2025 13:28*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-032625-478
Collection Date: 24-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-17
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 13:49
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 13:49
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 13:49
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 13:49
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 13:49
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 13:49
Surr: 1,2-Dichloroethane-d4	*109*			*70-126*	*%REC*	*1*	*29-Jul-2025 13:49*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*29-Jul-2025 13:49*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*29-Jul-2025 13:49*
Surr: Toluene-d8	*96.1*			*82-127*	*%REC*	*1*	*29-Jul-2025 13:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-264
Collection Date: 24-Jul-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25071456
Lab ID:HS25071456-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	29-Jul-2025 14:09
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 14:09
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Jul-2025 14:09
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Jul-2025 14:09
Toluene		U	0.00033	0.0020	mg/L	1	29-Jul-2025 14:09
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Jul-2025 14:09
Surr: 1,2-Dichloroethane-d4	*108*			*70-126*	*%REC*	*1*	*29-Jul-2025 14:09*
Surr: 4-Bromofluorobenzene	*108*			*77-113*	*%REC*	*1*	*29-Jul-2025 14:09*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*29-Jul-2025 14:09*
Surr: Toluene-d8	*96.8*			*82-127*	*%REC*	*1*	*29-Jul-2025 14:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

Batch ID: 231010 **Start Date:** 29 Jul 2025 08:57 **End Date:** 29 Jul 2025 08:57
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071456-01	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-02	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-03	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-04	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-05	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-06	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-07	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-08	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-09	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-10	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-11	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-12	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25071456-13	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 231043 **Start Date:** 29 Jul 2025 12:00 **End Date:** 29 Jul 2025 12:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071456-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-13		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 231145 **Start Date:** 31 Jul 2025 09:00 **End Date:** 31 Jul 2025 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071456-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-05		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

Batch ID: 231156 **Start Date:** 31 Jul 2025 09:00 **End Date:** 31 Jul 2025 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25071456-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25071456-13		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 231010 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10		29 Jul 2025 08:57	29 Jul 2025 15:12	1
HS25071456-01	LDNR-23	24 Jul 2025 08:10		29 Jul 2025 08:57	29 Jul 2025 15:12	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50		29 Jul 2025 08:57	29 Jul 2025 15:40	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50		29 Jul 2025 08:57	29 Jul 2025 15:40	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20		29 Jul 2025 08:57	29 Jul 2025 16:09	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20		29 Jul 2025 08:57	29 Jul 2025 16:09	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25		29 Jul 2025 08:57	29 Jul 2025 16:38	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25		29 Jul 2025 08:57	29 Jul 2025 16:38	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40		29 Jul 2025 08:57	29 Jul 2025 17:07	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40		29 Jul 2025 08:57	29 Jul 2025 17:07	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00		29 Jul 2025 08:57	29 Jul 2025 18:33	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00		29 Jul 2025 08:57	29 Jul 2025 18:33	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30		29 Jul 2025 08:57	29 Jul 2025 13:45	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30		29 Jul 2025 08:57	29 Jul 2025 13:45	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50		29 Jul 2025 08:57	29 Jul 2025 19:02	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50		29 Jul 2025 08:57	29 Jul 2025 19:02	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45		29 Jul 2025 08:57	29 Jul 2025 19:31	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45		29 Jul 2025 08:57	29 Jul 2025 19:31	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30		29 Jul 2025 08:57	29 Jul 2025 20:00	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30		29 Jul 2025 08:57	29 Jul 2025 20:00	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10		29 Jul 2025 08:57	29 Jul 2025 20:29	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10		29 Jul 2025 08:57	29 Jul 2025 20:29	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00		29 Jul 2025 08:57	29 Jul 2025 20:58	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00		29 Jul 2025 08:57	29 Jul 2025 20:58	1
HS25071456-13	FB-072425	24 Jul 2025 15:15		29 Jul 2025 08:57	29 Jul 2025 21:27	1
HS25071456-13	FB-072425	24 Jul 2025 15:15		29 Jul 2025 08:57	29 Jul 2025 21:27	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 231043 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10		29 Jul 2025 12:00	29 Jul 2025 18:57	20
HS25071456-01	LDNR-23	24 Jul 2025 08:10		29 Jul 2025 12:00	29 Jul 2025 17:14	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50		29 Jul 2025 12:00	30 Jul 2025 10:37	5
HS25071456-02	LDNR-01	24 Jul 2025 10:50		29 Jul 2025 12:00	29 Jul 2025 17:26	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20		29 Jul 2025 12:00	30 Jul 2025 10:47	5000
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20		29 Jul 2025 12:00	29 Jul 2025 18:33	50
HS25071456-04	LDNR-18	24 Jul 2025 08:25		29 Jul 2025 12:00	30 Jul 2025 10:39	5
HS25071456-04	LDNR-18	24 Jul 2025 08:25		29 Jul 2025 12:00	29 Jul 2025 17:32	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40		29 Jul 2025 12:00	30 Jul 2025 10:41	5
HS25071456-05	LDNR-21	24 Jul 2025 08:40		29 Jul 2025 12:00	29 Jul 2025 19:05	20
HS25071456-05	LDNR-21	24 Jul 2025 08:40		29 Jul 2025 12:00	29 Jul 2025 17:34	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00		29 Jul 2025 12:00	30 Jul 2025 10:43	5
HS25071456-06	LDNR-22	24 Jul 2025 09:00		29 Jul 2025 12:00	29 Jul 2025 19:07	20
HS25071456-06	LDNR-22	24 Jul 2025 09:00		29 Jul 2025 12:00	29 Jul 2025 17:37	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30		29 Jul 2025 12:00	29 Jul 2025 17:06	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50		29 Jul 2025 12:00	29 Jul 2025 19:09	20
HS25071456-08	MW-3-700	24 Jul 2025 10:50		29 Jul 2025 12:00	29 Jul 2025 17:39	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45		29 Jul 2025 12:00	29 Jul 2025 19:11	50
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45		29 Jul 2025 12:00	29 Jul 2025 17:41	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30		29 Jul 2025 12:00	29 Jul 2025 18:47	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30		29 Jul 2025 12:00	29 Jul 2025 17:43	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10		29 Jul 2025 12:00	30 Jul 2025 10:49	20
HS25071456-11	COTTAGE	24 Jul 2025 12:10		29 Jul 2025 12:00	29 Jul 2025 18:35	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00		29 Jul 2025 12:00	29 Jul 2025 18:37	1
HS25071456-13	FB-072425	24 Jul 2025 15:15		29 Jul 2025 12:00	29 Jul 2025 18:39	1
Batch ID: 231145 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10		31 Jul 2025 09:00	31 Jul 2025 14:34	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50		31 Jul 2025 09:00	31 Jul 2025 14:36	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20		31 Jul 2025 09:00	31 Jul 2025 14:38	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25		31 Jul 2025 09:00	31 Jul 2025 14:53	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40		31 Jul 2025 09:00	31 Jul 2025 14:55	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 231156 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25071456-06	LDNR-22	24 Jul 2025 09:00		31 Jul 2025 09:00	31 Jul 2025 15:03	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30		31 Jul 2025 09:00	31 Jul 2025 15:04	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50		31 Jul 2025 09:00	31 Jul 2025 15:13	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45		31 Jul 2025 09:00	31 Jul 2025 15:14	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30		31 Jul 2025 09:00	31 Jul 2025 15:16	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10		31 Jul 2025 09:00	31 Jul 2025 15:18	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00		31 Jul 2025 09:00	31 Jul 2025 15:20	1
HS25071456-13	FB-072425	24 Jul 2025 15:15		31 Jul 2025 09:00	31 Jul 2025 15:21	1
Batch ID: R518547 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			28 Jul 2025 15:30	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			28 Jul 2025 15:36	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20			28 Jul 2025 15:41	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			28 Jul 2025 15:47	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			28 Jul 2025 15:52	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			28 Jul 2025 16:11	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			28 Jul 2025 16:16	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			28 Jul 2025 16:27	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			28 Jul 2025 16:32	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			28 Jul 2025 16:37	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			28 Jul 2025 16:43	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			28 Jul 2025 16:48	1
HS25071456-13	FB-072425	24 Jul 2025 15:15			28 Jul 2025 16:52	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518559 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			28 Jul 2025 15:37	10
HS25071456-01	LDNR-23	24 Jul 2025 08:10			28 Jul 2025 15:14	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			28 Jul 2025 15:43	10
HS25071456-02	LDNR-01	24 Jul 2025 10:50			28 Jul 2025 15:20	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20			28 Jul 2025 15:49	1000
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20			28 Jul 2025 15:26	50
HS25071456-04	LDNR-18	24 Jul 2025 08:25			28 Jul 2025 15:55	10
HS25071456-04	LDNR-18	24 Jul 2025 08:25			28 Jul 2025 15:31	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			28 Jul 2025 16:42	10
HS25071456-05	LDNR-21	24 Jul 2025 08:40			28 Jul 2025 16:30	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			28 Jul 2025 16:48	10
HS25071456-06	LDNR-22	24 Jul 2025 09:00			28 Jul 2025 16:36	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			28 Jul 2025 17:05	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			28 Jul 2025 17:17	40
HS25071456-08	MW-3-700	24 Jul 2025 10:50			28 Jul 2025 17:11	2
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			28 Jul 2025 17:52	40
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			28 Jul 2025 17:46	2
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			28 Jul 2025 17:58	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			28 Jul 2025 18:04	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			28 Jul 2025 18:09	1
HS25071456-13	FB-072425	24 Jul 2025 15:15			28 Jul 2025 18:15	1
Batch ID: R518576 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			29 Jul 2025 10:34	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			29 Jul 2025 10:34	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20			29 Jul 2025 10:34	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			29 Jul 2025 10:34	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			29 Jul 2025 10:34	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			29 Jul 2025 10:34	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			29 Jul 2025 10:34	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			29 Jul 2025 10:34	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			29 Jul 2025 10:34	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			29 Jul 2025 10:34	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			29 Jul 2025 10:34	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			29 Jul 2025 10:34	1
HS25071456-13	FB-072425	24 Jul 2025 15:15			29 Jul 2025 10:34	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518601 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			28 Jul 2025 16:31	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			28 Jul 2025 17:10	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			28 Jul 2025 18:27	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			28 Jul 2025 19:06	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			28 Jul 2025 19:45	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			29 Jul 2025 02:51	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			29 Jul 2025 02:13	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			29 Jul 2025 01:34	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			28 Jul 2025 22:20	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			28 Jul 2025 23:38	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			29 Jul 2025 00:16	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			29 Jul 2025 00:55	1
Batch ID: R518659 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			29 Jul 2025 14:30	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			29 Jul 2025 14:50	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			29 Jul 2025 15:31	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			29 Jul 2025 15:52	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			29 Jul 2025 16:12	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			29 Jul 2025 16:33	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			29 Jul 2025 16:53	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			29 Jul 2025 17:14	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			29 Jul 2025 12:06	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			29 Jul 2025 17:34	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			29 Jul 2025 17:55	1
HS25071456-14	CG-061125-240	24 Jul 2025 00:00			29 Jul 2025 12:47	1
HS25071456-15	CG-061125-257	24 Jul 2025 00:00			29 Jul 2025 13:08	1
HS25071456-16	CG-061125-273	24 Jul 2025 00:00			29 Jul 2025 13:28	1
HS25071456-17	CG-032625-478	24 Jul 2025 00:00			29 Jul 2025 13:49	1
HS25071456-18	CG-061125-264	24 Jul 2025 00:00			29 Jul 2025 14:09	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518680 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			29 Jul 2025 12:00	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			29 Jul 2025 12:00	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20			29 Jul 2025 12:00	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			29 Jul 2025 12:00	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			29 Jul 2025 12:00	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			29 Jul 2025 12:00	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			29 Jul 2025 12:00	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			29 Jul 2025 12:00	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			29 Jul 2025 12:00	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			29 Jul 2025 12:00	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			29 Jul 2025 12:00	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			29 Jul 2025 12:00	1
HS25071456-13	FB-072425	24 Jul 2025 15:15			29 Jul 2025 12:00	1
Batch ID: R518684 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			29 Jul 2025 18:32	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			29 Jul 2025 19:11	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			29 Jul 2025 20:28	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			29 Jul 2025 21:07	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			29 Jul 2025 21:46	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			30 Jul 2025 03:34	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			30 Jul 2025 00:59	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			29 Jul 2025 22:25	25
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			30 Jul 2025 01:38	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			30 Jul 2025 02:17	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			30 Jul 2025 02:55	1
Batch ID: R518686 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			29 Jul 2025 22:25	25

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R518729 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			30 Jul 2025 10:30	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			30 Jul 2025 10:30	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20			30 Jul 2025 10:30	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			30 Jul 2025 10:30	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			30 Jul 2025 10:30	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			30 Jul 2025 10:30	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			30 Jul 2025 10:30	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			30 Jul 2025 10:30	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			30 Jul 2025 10:30	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			30 Jul 2025 10:30	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			30 Jul 2025 10:30	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			30 Jul 2025 10:30	1
HS25071456-13	FB-072425	24 Jul 2025 15:15			30 Jul 2025 10:30	1
Batch ID: R518730 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25071456-01	LDNR-23	24 Jul 2025 08:10			30 Jul 2025 10:30	1
HS25071456-02	LDNR-01	24 Jul 2025 10:50			30 Jul 2025 10:30	1
HS25071456-03	PPG-7B-B5	24 Jul 2025 11:20			30 Jul 2025 10:30	1
HS25071456-04	LDNR-18	24 Jul 2025 08:25			30 Jul 2025 10:30	1
HS25071456-05	LDNR-21	24 Jul 2025 08:40			30 Jul 2025 10:30	1
HS25071456-06	LDNR-22	24 Jul 2025 09:00			30 Jul 2025 10:30	1
HS25071456-07	MW-2-500	24 Jul 2025 13:30			30 Jul 2025 10:30	1
HS25071456-08	MW-3-700	24 Jul 2025 10:50			30 Jul 2025 10:30	1
HS25071456-09	MW-3-500 (Purged)	24 Jul 2025 08:45			30 Jul 2025 10:30	1
HS25071456-10	GW-Rinsate	24 Jul 2025 09:30			30 Jul 2025 10:30	1
HS25071456-11	COTTAGE	24 Jul 2025 12:10			30 Jul 2025 10:30	1
HS25071456-12	GW-DUP	24 Jul 2025 00:00			30 Jul 2025 10:30	1
HS25071456-13	FB-072425	24 Jul 2025 15:15			30 Jul 2025 10:30	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231010 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-231010** Units: **mg/L** Analysis Date: **29-Jul-2025 12:48**
Client ID: Run ID: **FID23_518678** SeqNo: **8964259** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02993*	*0*	*0.04*	*0*	*74.8*	*40 - 140*				

MBLK Sample ID: **MBLK-231010** Units: **mg/L** Analysis Date: **29-Jul-2025 12:48**
Client ID: Run ID: **FID-22_518679** SeqNo: **8964279** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03521*	*0*	*0.04*	*0*	*88.0*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03445*	*0*	*0.04*	*0*	*86.1*	*40 - 140*				
Surr: o-Terphenyl	*0.02762*	*0*	*0.04*	*0*	*69.1*	*40 - 140*				

LCS Sample ID: **LCS-231010** Units: **mg/L** Analysis Date: **29-Jul-2025 13:17**
Client ID: Run ID: **FID23_518678** SeqNo: **8964260** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04534	0.100	0.05	0	90.7	40 - 140				J
Aliphatics >C12 - C16	0.1026	0.100	0.1	0	103	40 - 140				
Aliphatics >C16 - C35	0.3771	0.100	0.4	0	94.3	40 - 140				
Surr: 1-Chlorooctadecane	*0.02818*	*0*	*0.04*	*0*	*70.5*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231010 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-231010** Units: **mg/L** Analysis Date: **29-Jul-2025 13:17**
Client ID: Run ID: **FID-22_518679** SeqNo: **8964280** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05132	0.100	0.05	0	103	40 - 140				J
Aromatics >C12 - C16	0.1993	0.100	0.2	0	99.7	40 - 140				
Aromatics >C16 - C21	0.1539	0.100	0.15	0	103	40 - 140				
Aromatics >C21 - C35	0.4372	0.100	0.45	0	97.2	40 - 140				
Surr: 2-Bromonaphthalene	*0.03861*	*0*	*0.04*	*0*	*96.5*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03905*	*0*	*0.04*	*0*	*97.6*	*40 - 140*				
Surr: o-Terphenyl	*0.03074*	*0*	*0.04*	*0*	*76.9*	*40 - 140*				

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **29-Jul-2025 14:14**
Client ID: **MW-2-500** Run ID: **FID23_518678** SeqNo: **8964262** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04854	0.100	0.05	0	97.1	40 - 140				J
Aliphatics >C12 - C16	0.106	0.100	0.1	0	106	40 - 140				
Aliphatics >C16 - C35	0.3849	0.100	0.4	0	96.2	40 - 140				
Surr: 1-Chlorooctadecane	*0.03079*	*0*	*0.04*	*0*	*77.0*	*40 - 140*				

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **29-Jul-2025 14:14**
Client ID: **MW-2-500** Run ID: **FID-22_518679** SeqNo: **8964282** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05182	0.100	0.05	0	104	40 - 140				J
Aromatics >C12 - C16	0.1848	0.100	0.2	0	92.4	40 - 140				
Aromatics >C16 - C21	0.1422	0.100	0.15	0.008329	89.3	40 - 140				
Aromatics >C21 - C35	0.3948	0.100	0.45	0	87.7	40 - 140				
Surr: 2-Bromonaphthalene	*0.03443*	*0*	*0.04*	*0*	*86.1*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03478*	*0*	*0.04*	*0*	*86.9*	*40 - 140*				
Surr: o-Terphenyl	*0.02749*	*0*	*0.04*	*0*	*68.7*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231010 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 14:43**
Client ID: **MW-2-500** Run ID: **FID23_518678** SeqNo: **8964263** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04749	0.100	0.05	0	95.0	40 - 140	0.04854	0	50	J
Aliphatics >C12 - C16	0.1011	0.100	0.1	0	101	40 - 140	0.106	4.76	50	
Aliphatics >C16 - C35	0.3904	0.100	0.4	0	97.6	40 - 140	0.3849	1.42	50	
Surr: 1-Chlorooctadecane	*0.03201*	*0*	*0.04*	*0*	*80.0*	*40 - 140*	*0.03079*	*3.89*	*50*	

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 14:43**
Client ID: **MW-2-500** Run ID: **FID-22_518679** SeqNo: **8964283** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05098	0.100	0.05	0	102	40 - 140	0.05182	0	50	J
Aromatics >C12 - C16	0.1905	0.100	0.2	0	95.2	40 - 140	0.1848	3.03	50	
Aromatics >C16 - C21	0.1526	0.100	0.15	0.008329	96.2	40 - 140	0.1422	7.04	50	
Aromatics >C21 - C35	0.4425	0.100	0.45	0	98.3	40 - 140	0.3948	11.4	50	
Surr: 2-Bromonaphthalene	*0.03565*	*0*	*0.04*	*0*	*89.1*	*40 - 140*	*0.03443*	*3.48*	*50*	
Surr: 2-Fluorobiphenyl	*0.03512*	*0*	*0.04*	*0*	*87.8*	*40 - 140*	*0.03478*	*0.989*	*50*	
Surr: o-Terphenyl	*0.03114*	*0*	*0.04*	*0*	*77.8*	*40 - 140*	*0.02749*	*12.4*	*50*	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518601 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 15:13**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962560** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2587*	*0.0100*	*0.25*	*0*	*103*	*70 - 130*				

LCS Sample ID: **LCS-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 13:56**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962558** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02773	0.00500	0.025	0	111	70 - 130				
Aliphatics >C8 - C10	0.02033	0.00500	0.025	0	81.3	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2391*	*0.0100*	*0.25*	*0*	*95.6*	*70 - 130*				

LCSD Sample ID: **LCSD-250728** Units: **mg/L** Analysis Date: **28-Jul-2025 14:34**
Client ID: Run ID: **FID-14_518601** SeqNo: **8962559** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02568	0.00500	0.025	0	103	70 - 130	0.02773	7.67	25	
Aliphatics >C8 - C10	0.01982	0.00500	0.025	0	79.3	70 - 130	0.02033	2.56	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.246*	*0.0100*	*0.25*	*0*	*98.4*	*70 - 130*	*0.2391*	*2.85*	*25*	

MS Sample ID: **HS25071456-07** Units: **mg/L** Analysis Date: **29-Jul-2025 02:13**
Client ID: **MW-2-500** Run ID: **FID-14_518601** SeqNo: **8962574** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02925	0.00500	0.025	0	117	70 - 130				
Aliphatics >C6 - C8	0.0292	0.00500	0.025	0	117	70 - 130				
Aliphatics >C8 - C10	0.0185	0.00500	0.025	0	74.0	70 - 130				
Aliphatics >C8 - C10	0.01851	0.00500	0.025	0	74.0	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2423*	*0.0100*	*0.25*	*0*	*96.9*	*70 - 130*				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.242*	*0.0100*	*0.25*	*0*	*96.9*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518601 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MSD Sample ID: **HS25071456-07** Units: **mg/L** Analysis Date: **29-Jul-2025 02:51**
Client ID: **MW-2-500** Run ID: **FID-14_518601** SeqNo: **8962575** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02808	0.00500	0.025	0	112	70 - 130	0.02925	4.06	25	
Aliphatics >C6 - C8	0.0281	0.00500	0.025	0	112	70 - 130	0.029246	4.06	25	
Aliphatics >C8 - C10	0.0187	0.00500	0.025	0	74.7	70 - 130	0.018509	0.877	25	
Aliphatics >C8 - C10	0.01867	0.00500	0.025	0	74.7	70 - 130	0.0185	0.877	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2734*	*0.0100*	*0.25*	*0*	*109*	*70 - 130*	*0.2423*	*12.1*	*25*	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.273*	*0.0100*	*0.25*	*0*	*109*	*70 - 130*	*0.24229*	*12.1*	*25*	

The following samples were analyzed in this batch: HS25071456-01, HS25071456-02, HS25071456-04, HS25071456-05, HS25071456-06, HS25071456-07, HS25071456-08, HS25071456-10, HS25071456-11, HS25071456-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518684 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 17:53**
Client ID: Run ID: **FID-15_518684** SeqNo: **8964515** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2276*	*0.0100*	*0.25*	*0*	*91.1*	*70 - 130*				

LCS Sample ID: **LCS-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 16:36**
Client ID: Run ID: **FID-15_518684** SeqNo: **8964513** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08027	0.0200	0.1	0	80.3	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2388*	*0.0100*	*0.25*	*0*	*95.5*	*70 - 130*				

LCSD Sample ID: **LCSD-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 17:14**
Client ID: Run ID: **FID-15_518684** SeqNo: **8964514** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08733	0.0200	0.1	0	87.3	70 - 130	0.08027	8.42	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2618*	*0.0100*	*0.25*	*0*	*105*	*70 - 130*	*0.2388*	*9.18*	*25*	

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **30-Jul-2025 04:13**
Client ID: **MW-2-500** Run ID: **FID-15_518684** SeqNo: **8964528** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07872	0.0200	0.1	0	78.7	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2433*	*0.0100*	*0.25*	*0*	*97.3*	*70 - 130*				

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **30-Jul-2025 04:52**
Client ID: **MW-2-500** Run ID: **FID-15_518684** SeqNo: **8964529** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07107	0.0200	0.1	0	71.1	70 - 130	0.07872	10.2	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2289*	*0.0100*	*0.25*	*0*	*91.5*	*70 - 130*	*0.2433*	*6.13*	*25*	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-04	HS25071456-05
HS25071456-06	HS25071456-07	HS25071456-08	HS25071456-09
HS25071456-10	HS25071456-11	HS25071456-12	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518686 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 17:53**
Client ID: Run ID: **FID-14_518686** SeqNo: **8964432** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2307*	*0.0100*	*0.25*	*0*	*92.3*	*70 - 130*				

LCS Sample ID: **LCS-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 16:36**
Client ID: Run ID: **FID-14_518686** SeqNo: **8964430** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02852	0.00500	0.025	0	114	70 - 130				
Aliphatics >C8 - C10	0.0216	0.00500	0.025	0	86.4	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2436*	*0.0100*	*0.25*	*0*	*97.4*	*70 - 130*				

LCSD Sample ID: **LCSD-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 17:14**
Client ID: Run ID: **FID-14_518686** SeqNo: **8964431** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02482	0.00500	0.025	0	99.3	70 - 130	0.02852	13.9	25	
Aliphatics >C8 - C10	0.0201	0.00500	0.025	0	80.4	70 - 130	0.0216	7.16	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2663*	*0.0100*	*0.25*	*0*	*107*	*70 - 130*	*0.2436*	*8.89*	*25*	

The following samples were analyzed in this batch: HS25071456-09

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231043 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-231043** Units: **mg/L** Analysis Date: **29-Jul-2025 16:58**
Client ID: Run ID: **ICPMS06_518593** SeqNo: **8963275** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00400								
Calcium	U	0.500								
Chromium	U	0.00400								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00200								
Potassium	U	0.200								
Sodium	U	0.200								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00400								

LCS Sample ID: **LCS-231043** Units: **mg/L** Analysis Date: **29-Jul-2025 17:00**
Client ID: Run ID: **ICPMS06_518593** SeqNo: **8963276** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04295	0.00200	0.05	0	85.9	80 - 120				
Barium	0.04617	0.00400	0.05	0	92.3	80 - 120				
Calcium	4.776	0.500	5	0	95.5	80 - 120				
Chromium	0.04184	0.00400	0.05	0	83.7	80 - 120				
Iron	4.492	0.200	5	0	89.8	80 - 120				
Lead	0.04348	0.00200	0.05	0	87.0	80 - 120				
Magnesium	4.525	0.200	5	0	90.5	80 - 120				
Manganese	0.04373	0.00500	0.05	0	87.5	80 - 120				
Nickel	0.04209	0.00200	0.05	0	84.2	80 - 120				
Potassium	4.534	0.200	5	0	90.7	80 - 120				
Sodium	4.388	0.200	5	0	87.8	80 - 120				
Strontium	0.09967	0.00500	0.1	0	99.7	80 - 120				
Vanadium	0.04216	0.00500	0.05	0	84.3	80 - 120				
Zinc	0.04477	0.00400	0.05	0	89.5	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231043 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **29-Jul-2025 17:08**
Client ID: **MW-2-500** Run ID: **ICPMS06_518593** SeqNo: **8963280** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.0454	0.00200	0.05	0.001232	88.3	80 - 120				
Barium	0.1743	0.00400	0.05	0.1278	93.1	80 - 120				
Calcium	17	0.500	5	12.47	90.8	80 - 120				
Chromium	0.04298	0.00400	0.05	-0.000098	86.1	80 - 120				
Iron	5.036	0.200	5	0.5632	89.5	80 - 120				
Lead	0.04264	0.00200	0.05	0.000195	84.9	80 - 120				
Magnesium	6.437	0.200	5	1.947	89.8	80 - 120				
Manganese	0.1551	0.00500	0.05	0.1128	84.6	80 - 120				
Nickel	0.04255	0.00200	0.05	0.000616	83.9	80 - 120				
Potassium	45.89	0.200	5	42.25	72.6	80 - 120				SO
Sodium	67.06	0.200	5	64.99	41.4	80 - 120				SO
Strontium	0.5572	0.00500	0.1	0.4698	87.4	80 - 120				O
Vanadium	0.04406	0.00500	0.05	0.000716	86.7	80 - 120				
Zinc	0.04707	0.00400	0.05	0.003068	88.0	80 - 120				

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 17:10**
Client ID: **MW-2-500** Run ID: **ICPMS06_518593** SeqNo: **8963281** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04596	0.00200	0.05	0.001232	89.5	80 - 120	0.0454	1.23	20	
Barium	0.1732	0.00400	0.05	0.1278	90.8	80 - 120	0.1743	0.677	20	
Calcium	17.01	0.500	5	12.47	90.9	80 - 120	17	0.054	20	
Chromium	0.04333	0.00400	0.05	-0.000098	86.9	80 - 120	0.04298	0.825	20	
Iron	5.11	0.200	5	0.5632	90.9	80 - 120	5.036	1.45	20	
Lead	0.04326	0.00200	0.05	0.000195	86.1	80 - 120	0.04264	1.44	20	
Magnesium	6.404	0.200	5	1.947	89.2	80 - 120	6.437	0.514	20	
Manganese	0.1552	0.00500	0.05	0.1128	84.8	80 - 120	0.1551	0.0825	20	
Nickel	0.04254	0.00200	0.05	0.000616	83.9	80 - 120	0.04255	0.0118	20	
Potassium	45.75	0.200	5	42.25	69.9	80 - 120	45.89	0.295	20	SO
Sodium	67.67	0.200	5	64.99	53.6	80 - 120	67.06	0.909	20	SO
Strontium	0.5633	0.00500	0.1	0.4698	93.5	80 - 120	0.5572	1.09	20	O
Vanadium	0.04478	0.00500	0.05	0.000716	88.1	80 - 120	0.04406	1.62	20	
Zinc	0.04778	0.00400	0.05	0.003068	89.4	80 - 120	0.04707	1.51	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231043 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25071456-07PDS** Units: **mg/L** Analysis Date: **29-Jul-2025 17:12**
Client ID: **MW-2-500** Run ID: **ICPMS06_518593** SeqNo: **8963282** PrepDate: **29-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.09274	0.00200	0.1	0.001232	91.5	75 - 125				
Barium	0.2105	0.00400	0.1	0.1278	82.8	75 - 125				
Calcium	20.84	0.500	10	12.47	83.7	75 - 125				
Chromium	0.08808	0.00400	0.1	-0.000098	88.2	75 - 125				
Iron	9.789	0.200	10	0.5632	92.3	75 - 125				
Lead	0.0905	0.00200	0.1	0.000195	90.3	75 - 125				
Magnesium	11.14	0.200	10	1.947	91.9	75 - 125				
Manganese	0.1949	0.00500	0.1	0.1128	82.1	75 - 125				
Nickel	0.08622	0.00200	0.1	0.000616	85.6	75 - 125				
Potassium	49.06	0.200	10	42.25	68.0	75 - 125				SO
Sodium	69.7	0.200	10	64.99	47.1	75 - 125				SO
Strontium	0.5717	0.00500	0.1	0.4698	102	75 - 125				O
Vanadium	0.09041	0.00500	0.1	0.000716	89.7	75 - 125				
Zinc	0.09465	0.00400	0.1	0.003068	91.6	75 - 125				

SD Sample ID: **HS25071456-07SD** Units: **mg/L** Analysis Date: **29-Jul-2025 17:02**
Client ID: **MW-2-500** Run ID: **ICPMS06_518593** SeqNo: **8963277** PrepDate: **29-Jul-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.001232	0	10	
Barium	0.1284	0.0200					0.1278	0.528	10	
Calcium	12.38	2.50					12.47	0.724	10	
Chromium	U	0.0200					-0.000098	0	10	
Iron	0.5648	1.00					0.5632	0	10	J
Lead	U	0.0100					0.000195	0	10	
Magnesium	2.101	1.00					1.947	7.91	10	
Manganese	0.1126	0.0250					0.1128	0.222	10	
Nickel	U	0.0100					0.000616	0	10	
Potassium	42.59	1.00					42.25	0.799	10	
Sodium	65.35	1.00					64.99	0.55	10	
Strontium	0.4939	0.0250					0.4698	5.14	10	
Vanadium	U	0.0250					0.000716	0	10	
Zinc	U	0.0200					0.003068	0	10	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231043 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231145 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-231145** Units: **mg/L** Analysis Date: **31-Jul-2025 13:57**
Client ID: Run ID: **HG05_518829** SeqNo: **8967206** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-231145** Units: **mg/L** Analysis Date: **31-Jul-2025 14:01**
Client ID: Run ID: **HG05_518829** SeqNo: **8967207** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00529	0.000200	0.005	0	106	80 - 120				

MS Sample ID: **HS25071456-03MS** Units: **mg/L** Analysis Date: **31-Jul-2025 14:50**
Client ID: **PPG-7B-B5** Run ID: **HG05_518829** SeqNo: **8967230** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0034	0.000200	0.005	-0.00001	68.2	75 - 125				S

MSD Sample ID: **HS25071456-03MSD** Units: **mg/L** Analysis Date: **31-Jul-2025 14:52**
Client ID: **PPG-7B-B5** Run ID: **HG05_518829** SeqNo: **8967231** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00348	0.000200	0.005	-0.00001	69.8	75 - 125	0.0034	2.33	20	S

The following samples were analyzed in this batch: HS25071456-01 HS25071456-02 HS25071456-03 HS25071456-04 HS25071456-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: 231156 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-231156** Units: **mg/L** Analysis Date: **31-Jul-2025 14:59**
Client ID: Run ID: **HG05_518829** SeqNo: **8967234** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U		0.000200								

LCS Sample ID: **LCS-231156** Units: **mg/L** Analysis Date: **31-Jul-2025 15:01**
Client ID: Run ID: **HG05_518829** SeqNo: **8967235** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00536		0.000200	0.005	0	107	80 - 120				

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **31-Jul-2025 15:06**
Client ID: **MW-2-500** Run ID: **HG05_518829** SeqNo: **8967238** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00612		0.000200	0.005	0.000005	122	75 - 125				

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **31-Jul-2025 15:08**
Client ID: **MW-2-500** Run ID: **HG05_518829** SeqNo: **8967239** PrepDate: **31-Jul-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00533		0.000200	0.005	0.000005	106	75 - 125	0.00612	13.8	20	

The following samples were analyzed in this batch:

HS25071456-06	HS25071456-07	HS25071456-08	HS25071456-09
HS25071456-10	HS25071456-11	HS25071456-12	HS25071456-13

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518659 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 11:25**
Client ID: Run ID: **VOA7_518659** SeqNo: **8963875** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.054*	*0.0010*	*0.05*	*0*	*108*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.054*	*0.0010*	*0.05*	*0*	*107*	*77 - 113*				
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*109*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*97.1*	*81 - 120*				

LCS Sample ID: **LCS-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 10:24**
Client ID: Run ID: **VOA7_518659** SeqNo: **8963873** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	95.7	74 - 120				
Ethylbenzene	0.017	0.0020	0.02	0	85.7	77 - 117				
m,p-Xylene	0.035	0.0040	0.04	0	87.4	77 - 122				
o-Xylene	0.018	0.0020	0.02	0	89.9	75 - 119				
Toluene	0.018	0.0020	0.02	0	90.3	77 - 118				
Xylenes, Total	0.053	0.0060	0.06	0	88.2	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.053*	*0.0010*	*0.05*	*0*	*106*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*104*	*77 - 113*				
Surr: Dibromofluoromethane	*0.053*	*0.0010*	*0.05*	*0*	*105*	*73 - 126*				
Surr: Toluene-d8	*0.048*	*0.0010*	*0.05*	*0*	*96.1*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518659 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250729** Units: **mg/L** Analysis Date: **29-Jul-2025 10:44**
Client ID: Run ID: **VOA7_518659** SeqNo: **8963874** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	92.6	74 - 120	0.01915	3.33	20	
Ethylbenzene	0.017	0.0020	0.02	0	84.4	77 - 117	0.01715	1.62	20	
m,p-Xylene	0.035	0.0040	0.04	0	87.2	77 - 122	0.03495	0.203	20	
o-Xylene	0.018	0.0020	0.02	0	88.4	75 - 119	0.01799	1.69	20	
Toluene	0.018	0.0020	0.02	0	89.2	77 - 118	0.01807	1.27	20	
Xylenes, Total	0.053	0.0060	0.06	0	87.6	75 - 122	0.05293	0.705	20	
Surr: 1,2-Dichloroethane-d4	*0.053*	*0.0010*	*0.05*	*0*	*106*	*70 - 123*	*0.05298*	*0.21*	*20*	
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*	*0.05204*	*0.491*	*20*	
Surr: Dibromofluoromethane	*0.053*	*0.0010*	*0.05*	*0*	*106*	*73 - 126*	*0.05264*	*0.476*	*20*	
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*98.3*	*81 - 120*	*0.04803*	*2.32*	*20*	

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **29-Jul-2025 18:36**
Client ID: **MW-2-500** Run ID: **VOA7_518659** SeqNo: **8965918** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	93.9	70 - 127				
Ethylbenzene	0.016	0.0020	0.02	0	81.3	70 - 124				
m,p-Xylene	0.034	0.0040	0.04	0.0006430	82.6	70 - 130				
o-Xylene	0.018	0.0020	0.02	0.0007200	86.9	70 - 124				
Toluene	0.018	0.0020	0.02	0.0004350	86.4	70 - 123				
Xylenes, Total	0.052	0.0060	0.06	0.001363	84.0	70 - 130				
Surr: 1,2-Dichloroethane-d4	*0.056*	*0.0010*	*0.05*	*0*	*113*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*104*	*77 - 113*				
Surr: Dibromofluoromethane	*0.055*	*0.0010*	*0.05*	*0*	*111*	*77 - 123*				
Surr: Toluene-d8	*0.048*	*0.0010*	*0.05*	*0*	*96.9*	*82 - 127*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518659 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **29-Jul-2025 18:56**
Client ID: **MW-2-500** Run ID: **VOA7_518659** SeqNo: **8965919** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.018	0.0010	0.02	0	90.1	70 - 127	0.01878	4.08	20	
Ethylbenzene	0.016	0.0020	0.02	0	79.3	70 - 124	0.01626	2.48	20	
m,p-Xylene	0.033	0.0040	0.04	0.0006430	81.8	70 - 130	0.03367	0.889	20	
o-Xylene	0.017	0.0020	0.02	0.0007200	82.3	70 - 124	0.01809	5.17	20	
Toluene	0.017	0.0020	0.02	0.0004350	82.5	70 - 123	0.01771	4.49	20	
Xylenes, Total	0.051	0.0060	0.06	0.001363	82.0	70 - 130	0.05176	2.36	20	
Surr: 1,2-Dichloroethane-d4	*0.055*	*0.0010*	*0.05*	*0*	*110*	*70 - 126*	*0.05639*	*2.29*	*20*	
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*102*	*77 - 113*	*0.05190*	*1.4*	*20*	
Surr: Dibromofluoromethane	*0.055*	*0.0010*	*0.05*	*0*	*109*	*77 - 123*	*0.05535*	*1.19*	*20*	
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*97.4*	*82 - 127*	*0.04846*	*0.455*	*20*	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-04	HS25071456-05
HS25071456-06	HS25071456-07	HS25071456-08	HS25071456-09
HS25071456-10	HS25071456-11	HS25071456-12	HS25071456-14
HS25071456-15	HS25071456-16	HS25071456-17	HS25071456-18

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518547 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-07.28.2025** Units: **mg/L** Analysis Date: **28-Jul-2025 15:03**
Client ID: Run ID: **Skalar 03_518547** SeqNo: **8961173** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-07.28.2025** Units: **mg/L** Analysis Date: **28-Jul-2025 15:09**
Client ID: Run ID: **Skalar 03_518547** SeqNo: **8961174** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	970	5.00	1000	0	97.0	85 - 115				

LCSD Sample ID: **LCSD-07.28.2025** Units: **mg/L** Analysis Date: **28-Jul-2025 15:15**
Client ID: Run ID: **Skalar 03_518547** SeqNo: **8961175** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	958.6	5.00	1000	0	95.9	85 - 115	970	1.18	20	

DUP Sample ID: **HS25071456-07DUP** Units: **mg/L** Analysis Date: **28-Jul-2025 16:20**
Client ID: **MW-2-500** Run ID: **Skalar 03_518547** SeqNo: **8961186** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	40	5.00					38.9	2.79	20	
Alkalinity, Carbonate (As CaCO3)	149.4	5.00					149.2	0.134	20	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518559 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **28-Jul-2025 14:56**
Client ID: Run ID: **ICS-Integrion_518559** SeqNo: **8961500** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **28-Jul-2025 15:08**
Client ID: Run ID: **ICS-Integrion_518559** SeqNo: **8961501** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.109	0.100	4	0	103	80 - 120				
Chloride	19.86	0.500	20	0	99.3	80 - 120				
Sulfate	20.08	0.500	20	0	100	80 - 120				

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **28-Jul-2025 18:21**
Client ID: **MW-2-500** Run ID: **ICS-Integrion_518559** SeqNo: **8961530** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.952	0.100	2	0	97.6	80 - 120				
Chloride	49.4	0.500	10	40.31	91.0	80 - 120				O
Sulfate	11.15	0.500	10	1.598	95.5	80 - 120				

MS Sample ID: **HS25071456-01MS** Units: **mg/L** Analysis Date: **28-Jul-2025 16:53**
Client ID: **LDNR-23** Run ID: **ICS-Integrion_518559** SeqNo: **8961517** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	18.16	1.00	20	0	90.8	80 - 120				
Chloride	313.8	5.00	100	221.7	92.1	80 - 120				
Sulfate	180.2	5.00	100	85.71	94.5	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518559 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **28-Jul-2025 18:27**
Client ID: **MW-2-500** Run ID: **ICS-Integrion_518559** SeqNo: **8961531** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.973	0.100	2	0	98.7	80 - 120	1.952	1.09	20	
Chloride	49.41	0.500	10	40.31	91.0	80 - 120	49.4	0.0101	20	O
Sulfate	11.15	0.500	10	1.598	95.5	80 - 120	11.15	0.0314	20	

MSD Sample ID: **HS25071456-01MSD** Units: **mg/L** Analysis Date: **28-Jul-2025 16:59**
Client ID: **LDNR-23** Run ID: **ICS-Integrion_518559** SeqNo: **8961518** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	18.29	1.00	20	0	91.5	80 - 120	18.16	0.73	20	
Chloride	314.1	5.00	100	221.7	92.4	80 - 120	313.8	0.0892	20	
Sulfate	180.1	5.00	100	85.71	94.4	80 - 120	180.2	0.0933	20	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: **R518576 (0)** **Instrument:** **WetChem_HS** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25071456-07DUP** Units: **pH Units** Analysis Date: **29-Jul-2025 10:34**
Client ID: **MW-2-500** Run ID: **WetChem_HS_518576** SeqNo: **8961940** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	10.36	1.00					10.34	0.193	10	
Temp Deg C @pH	22.2	0					22.2	0	10	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518680 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-07292025** Units: **mg/L** Analysis Date: **29-Jul-2025 12:00**
Client ID: Run ID: **Balance1_518680** SeqNo: **8964325** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-07292025** Units: **mg/L** Analysis Date: **29-Jul-2025 12:00**
Client ID: Run ID: **Balance1_518680** SeqNo: **8964324** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1012	10.0	1000	0	101	85 - 115				

DUP Sample ID: **HS25071456-07DUP** Units: **mg/L** Analysis Date: **29-Jul-2025 12:00**
Client ID: **MW-2-500** Run ID: **Balance1_518680** SeqNo: **8964314** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	310	10.0					296	4.62	20	

DUP Sample ID: **HS25071456-03DUP** Units: **mg/L** Analysis Date: **29-Jul-2025 12:00**
Client ID: **PPG-7B-B5** Run ID: **Balance1_518680** SeqNo: **8964309** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	88580	10.0					85560	3.47	20	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518729 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R518729** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518729** SeqNo: **8965265** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R518729** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518729** SeqNo: **8965264** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.92	5.00	25	0	91.7	85 - 115				

LCSD Sample ID: **LCSD-R518729** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518729** SeqNo: **8965263** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.72	5.00	25	0	90.9	85 - 115	22.92	0.876	20	

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_518729** SeqNo: **8965254** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	43.64	5.00	25	20.52	92.5	80 - 120				

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_518729** SeqNo: **8965253** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	44.04	5.00	25	20.52	94.1	80 - 120	43.64	0.912	20	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25071456

QC BATCH REPORT

Batch ID: R518730 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R518730** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518730** SeqNo: **8965295** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R518730** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518730** SeqNo: **8965294** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.35	1.00	26.56	0	91.7	80 - 120				

LCSD Sample ID: **LCSD-R518730** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: Run ID: **WetChem_HS_518730** SeqNo: **8965293** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.14	1.00	26.56	0	90.9	80 - 120	24.35	0.876	20	

MS Sample ID: **HS25071456-07MS** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_518730** SeqNo: **8965297** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	46.37	1.00	26.56	21.8	92.5	80 - 120				

MSD Sample ID: **HS25071456-07MSD** Units: **mg/L** Analysis Date: **30-Jul-2025 10:30**
Client ID: **MW-2-500** Run ID: **WetChem_HS_518730** SeqNo: **8965296** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	46.79	1.00	26.56	21.8	94.1	80 - 120	46.37	0.912	20	

The following samples were analyzed in this batch:

HS25071456-01	HS25071456-02	HS25071456-03	HS25071456-04
HS25071456-05	HS25071456-06	HS25071456-07	HS25071456-08
HS25071456-09	HS25071456-10	HS25071456-11	HS25071456-12
HS25071456-13			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25071456**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oklahoma	2023-140	31-Aug-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	T104704231 TX-C24-00130	30-Apr-2026

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25071456 **Date/Time Received:** **25-Jul-2025 16:30**

Client Name: ERMSW-HOU **Received by:** **Si Ma**

Completed By:	/S/ Kaycee Rogers	26-Jul-2025 14:17	**Reviewed by:**	/S/ Rochelle Davis	28-Jul-2025 10:12
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:341852, 341853
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.8UC/C, 1.1UC/C, 1.4UC/C, 1.0UC/C, 2.1UC/C	IR 34	
Cooler(s)/Kit(s):	53653, 54106, 53818, 52001, 54113		
Date/Time sample(s) sent to storage:	07/26/2025 1417		
Water - VOA vials have zero headspace?	Yes ☐	No ☑	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: PPG-7B-B5 and FB-0724-25 6 of 6 vials have headspace. MW-2-500 (ms/msd) 3 of 18 vials have headspace

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 341853

HS25071456

, WV

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	C777906	Project Name	Sulphur Dome	A	8260C_LL_W (Low Level VOC (8260) BTEX)
Work Order		Project Number		B	ICPMS,As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
Company Name	Environmental Resources Mgmt	Bill To Company	Environmental Resources Mgmt	C	HG_W (Mercury)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D	MA EPH_W_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	9056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	ALK_W 2320B (carb, bicarb)
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SULFID_45000 F (Sulfide)
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-3-500(Purged)	7/24/25	0845	W	1,2,4,8	11	X	X	X	X	X	X	X	X	X	X	
2	GW-Rinsate		0930														
3	Cottages		1210														
4	GW-DUP		0000														
5	FB-072425	7/24/25	1515	W	1,2,4,8	11	X	X	X	X	X	X	X	X	X	X	
6	CG-061125-240			W	1	2	X										
7	CG-061125-257			W	1	2	X										
8	CG-061125-273			W	1	2	X										
9	CG-032625-478			W	1	2	X										
10	CG-061125-264			W	1	2	X										

Sampler(s) Please Print & Sign: Kevin Byerly Kevin Byerly

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 W. Days [ ] 5 W. Days [ ] 2 W. Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes: ERM Sulphur Dome
Kevin Byerly	7.25.25	16:30		
Relinquished by:	Date:	Time:	Received by (Laboratory):	
			7/25/25 16:30	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.

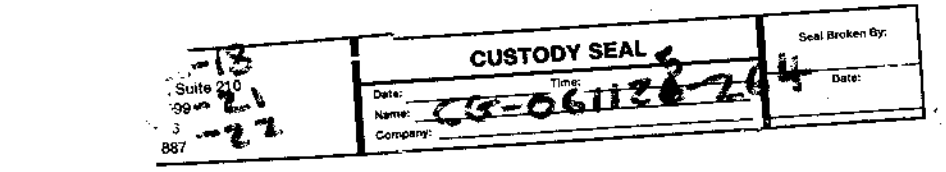
QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

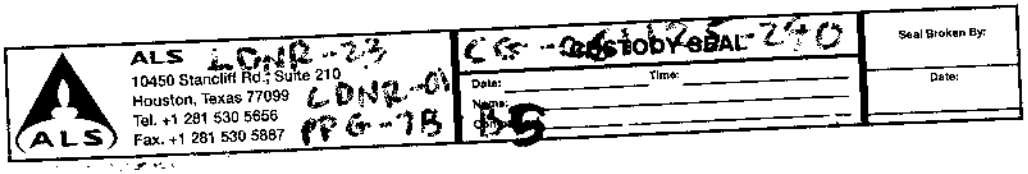
Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER





RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

August 08, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25080201**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 4 sample(s) on Aug 05, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25080201

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25080201-01	KZ- Top	Water		01-Aug-2025 16:40	05-Aug-2025 09:00	☐
HS25080201-02	KZ- Bott	Water		01-Aug-2025 15:15	05-Aug-2025 09:00	☐
HS25080201-03	LZ- Top	Water		01-Aug-2025 15:40	05-Aug-2025 09:00	☐
HS25080201-04	LZ- Bott	Water		01-Aug-2025 15:55	05-Aug-2025 09:00	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25080201

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

• Sample LZ-TOP was received in two unpreserved jars, per client request the sample volume was allocated to containers with the correct preservatives.

GC Semivolatiles by Method MA EPH

Batch ID: 231364

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R519260,R519263

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R519229

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R519215

Sample ID: LCS-250806

• Not enough sample vials are received to analyze MS/MSD. However, LCS/LCSD are provide to meet QC criteria.

Batch ID: R519213

Sample ID: LCS-250806

• Not enough sample vials are received to analyze MS/MSD. However, LCS/LCSD are provide to meet QC criteria.

Metals by Method SW7470A

Batch ID: 231434

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 231373

Sample ID: KZ- Top (HS25080201-01MS/MSD)

• The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Barium, Sodium.

Sample ID: KZ- Top (HS25080201-01PDS)

• The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Calcium, Manganese, Sodium.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25080201

WetChemistry by Method SM4500H+ B

Batch ID: R519176

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R519278

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E376.1

Batch ID: R519191

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R519175

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: R519173

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R519172,R519258

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: KZ- Top
Collection Date: 01-Aug-2025 16:40

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	06-Aug-2025 21:28
Ethylbenzene		U	0.00033	0.0020	mg/L	1	06-Aug-2025 21:28
m,p-Xylene		U	0.00061	0.0040	mg/L	1	06-Aug-2025 21:28
o-Xylene		U	0.00031	0.0020	mg/L	1	06-Aug-2025 21:28
Toluene		U	0.00033	0.0020	mg/L	1	06-Aug-2025 21:28
Xylenes, Total		U	0.00092	0.0060	mg/L	1	06-Aug-2025 21:28
Surr: 1,2-Dichloroethane-d4	*102*			*70-126*	*%REC*	*1*	*06-Aug-2025 21:28*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*06-Aug-2025 21:28*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*06-Aug-2025 21:28*
Surr: Toluene-d8	*96.5*			*82-127*	*%REC*	*1*	*06-Aug-2025 21:28*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	07-Aug-2025 12:17
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	07-Aug-2025 12:17
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	07-Aug-2025 12:17
Surr: 2,5-Dibromotoluene (Aliphatic)	*87.6*			*70-130*	*%REC*	*1*	*07-Aug-2025 12:17*
Surr: 2,5-Dibromotoluene (Aromatic)	*85.2*			*70-130*	*%REC*	*1*	*07-Aug-2025 12:17*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 06-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 11:59
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 11:59
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 11:59
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 11:59
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 11:59
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	07-Aug-2025 11:59
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 11:59
Surr: 1-Chlorooctadecane	*61.3*			*40-140*	*%REC*	*1*	*07-Aug-2025 11:59*
Surr: 2-Bromonaphthalene	*84.7*			*40-140*	*%REC*	*1*	*07-Aug-2025 11:59*
Surr: 2-Fluorobiphenyl	*83.3*			*40-140*	*%REC*	*1*	*07-Aug-2025 11:59*
Surr: o-Terphenyl	*68.9*			*40-140*	*%REC*	*1*	*07-Aug-2025 11:59*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: KZ- Top
Collection Date: 01-Aug-2025 16:40

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 06-Aug-2025		Analyst: JC
Arsenic	**0.00232**		**0.000510**	**0.00200**	**mg/L**	1	07-Aug-2025 11:04
Barium	**0.211**		**0.000750**	**0.00500**	**mg/L**	1	07-Aug-2025 11:04
Calcium	**64.5**		**0.120**	**0.500**	**mg/L**	1	07-Aug-2025 11:04
Chromium	U		0.00173	0.00500	mg/L	1	07-Aug-2025 11:04
Iron	U		0.0600	0.200	mg/L	1	07-Aug-2025 11:04
Lead	U		0.000470	0.00200	mg/L	1	07-Aug-2025 11:04
Magnesium	**14.8**		**0.0408**	**0.200**	**mg/L**	1	07-Aug-2025 11:04
Manganese	**0.928**		**0.00190**	**0.00500**	**mg/L**	1	07-Aug-2025 11:04
Nickel	U		0.00130	0.00500	mg/L	1	07-Aug-2025 11:04
Potassium	**3.03**		**0.0869**	**0.500**	**mg/L**	1	07-Aug-2025 11:04
Sodium	**159**		**0.130**	**0.500**	**mg/L**	1	07-Aug-2025 11:04
Strontium	**0.495**		**0.000300**	**0.00500**	**mg/L**	1	07-Aug-2025 11:04
Vanadium	**0.000713**	J	**0.000600**	**0.00500**	**mg/L**	1	07-Aug-2025 11:04
Zinc	**0.0113**		**0.00300**	**0.0100**	**mg/L**	1	07-Aug-2025 11:04
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 07-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	07-Aug-2025 12:20
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	06-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**672**		**3.00**	**10.0**	**mg/L**	1	06-Aug-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**136**		**1.20**	**5.00**	**mg/L**	1	06-Aug-2025 19:36
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	06-Aug-2025 19:36
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	06-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.73**	H	**0.100**	**1.00**	**pH Units**	1	06-Aug-2025 15:44
Temp Deg C @pH	**22.5**	H	**0**	**0**	**°C**	1	06-Aug-2025 15:44
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	07-Aug-2025 14:10
Chloride	**253**		**2.00**	**5.00**	**mg/L**	10	07-Aug-2025 14:33
Sulfate	**75.3**		**0.200**	**0.500**	**mg/L**	1	07-Aug-2025 14:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: KZ- Bott
Collection Date: 01-Aug-2025 15:15

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	06-Aug-2025 21:49
Ethylbenzene		U	0.00033	0.0020	mg/L	1	06-Aug-2025 21:49
m,p-Xylene		U	0.00061	0.0040	mg/L	1	06-Aug-2025 21:49
o-Xylene		U	0.00031	0.0020	mg/L	1	06-Aug-2025 21:49
Toluene		U	0.00033	0.0020	mg/L	1	06-Aug-2025 21:49
Xylenes, Total		U	0.00092	0.0060	mg/L	1	06-Aug-2025 21:49
Surr: 1,2-Dichloroethane-d4	*102*			*70-126*	*%REC*	*1*	*06-Aug-2025 21:49*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*06-Aug-2025 21:49*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*06-Aug-2025 21:49*
Surr: Toluene-d8	*98.0*			*82-127*	*%REC*	*1*	*06-Aug-2025 21:49*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	07-Aug-2025 12:55
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	07-Aug-2025 12:55
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	07-Aug-2025 12:55
Surr: 2,5-Dibromotoluene (Aliphatic)	*99.3*			*70-130*	*%REC*	*1*	*07-Aug-2025 12:55*
Surr: 2,5-Dibromotoluene (Aromatic)	*96.7*			*70-130*	*%REC*	*1*	*07-Aug-2025 12:55*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 06-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 12:58
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 12:58
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 12:58
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 12:58
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 12:58
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	07-Aug-2025 12:58
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 12:58
Surr: 1-Chlorooctadecane	*57.0*			*40-140*	*%REC*	*1*	*07-Aug-2025 12:58*
Surr: 2-Bromonaphthalene	*84.7*			*40-140*	*%REC*	*1*	*07-Aug-2025 12:58*
Surr: 2-Fluorobiphenyl	*83.3*			*40-140*	*%REC*	*1*	*07-Aug-2025 12:58*
Surr: o-Terphenyl	*63.6*			*40-140*	*%REC*	*1*	*07-Aug-2025 12:58*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: KZ- Bott
Collection Date: 01-Aug-2025 15:15

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 06-Aug-2025		Analyst: JC
Arsenic	**0.00113**	J	**0.000510**	**0.00200**	**mg/L**	1	07-Aug-2025 11:12
Barium	**0.286**		**0.000750**	**0.00500**	**mg/L**	1	07-Aug-2025 11:12
Calcium	**67.5**		**0.120**	**0.500**	**mg/L**	1	07-Aug-2025 11:12
Chromium	U		0.00173	0.00500	mg/L	1	07-Aug-2025 11:12
Iron	**0.0942**	J	**0.0600**	**0.200**	**mg/L**	1	07-Aug-2025 11:12
Lead	U		0.000470	0.00200	mg/L	1	07-Aug-2025 11:12
Magnesium	**15.7**		**0.0408**	**0.200**	**mg/L**	1	07-Aug-2025 11:12
Manganese	**3.53**		**0.0380**	**0.100**	**mg/L**	20	07-Aug-2025 13:41
Nickel	U		0.00130	0.00500	mg/L	1	07-Aug-2025 11:12
Potassium	**2.85**		**0.0869**	**0.500**	**mg/L**	1	07-Aug-2025 11:12
Sodium	**193**		**2.60**	**10.0**	**mg/L**	20	07-Aug-2025 13:41
Strontium	**0.530**		**0.000300**	**0.00500**	**mg/L**	1	07-Aug-2025 11:12
Vanadium	**0.00106**	J	**0.000600**	**0.00500**	**mg/L**	1	07-Aug-2025 11:12
Zinc	**0.00446**	J	**0.00300**	**0.0100**	**mg/L**	1	07-Aug-2025 11:12
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 07-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	07-Aug-2025 12:22
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**3.74**		**0.500**	**1.00**	**mg/L**	1	06-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**724**		**3.00**	**10.0**	**mg/L**	1	06-Aug-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**131**		**1.20**	**5.00**	**mg/L**	1	06-Aug-2025 19:48
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	06-Aug-2025 19:48
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**3.52**	J	**0.920**	**5.00**	**mg/L**	1	06-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.51**	H	**0.100**	**1.00**	**pH Units**	1	06-Aug-2025 15:55
Temp Deg C @pH	**23.0**	H	**0**	**0**	**°C**	1	06-Aug-2025 15:55
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	07-Aug-2025 14:15
Chloride	**264**		**2.00**	**5.00**	**mg/L**	10	07-Aug-2025 14:39
Sulfate	**77.8**		**0.200**	**0.500**	**mg/L**	1	07-Aug-2025 14:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LZ- Top
Collection Date: 01-Aug-2025 15:40

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	07-Aug-2025 11:47
Ethylbenzene		U	0.00033	0.0020	mg/L	1	07-Aug-2025 11:47
m,p-Xylene		U	0.00061	0.0040	mg/L	1	07-Aug-2025 11:47
o-Xylene		U	0.00031	0.0020	mg/L	1	07-Aug-2025 11:47
Toluene		U	0.00033	0.0020	mg/L	1	07-Aug-2025 11:47
Xylenes, Total		U	0.00092	0.0060	mg/L	1	07-Aug-2025 11:47
Surr: 1,2-Dichloroethane-d4	*106*			*70-126*	*%REC*	*1*	*07-Aug-2025 11:47*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*07-Aug-2025 11:47*
Surr: Dibromofluoromethane	*103*			*77-123*	*%REC*	*1*	*07-Aug-2025 11:47*
Surr: Toluene-d8	*99.2*			*82-127*	*%REC*	*1*	*07-Aug-2025 11:47*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	07-Aug-2025 13:34
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	07-Aug-2025 13:34
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	07-Aug-2025 13:34
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.6*			*70-130*	*%REC*	*1*	*07-Aug-2025 13:34*
Surr: 2,5-Dibromotoluene (Aromatic)	*93.4*			*70-130*	*%REC*	*1*	*07-Aug-2025 13:34*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 06-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:27
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:27
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:27
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:27
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:27
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:27
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:27
Surr: 1-Chlorooctadecane	*56.6*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:27*
Surr: 2-Bromonaphthalene	*84.8*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:27*
Surr: 2-Fluorobiphenyl	*83.2*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:27*
Surr: o-Terphenyl	*65.3*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:27*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LZ- Top
Collection Date: 01-Aug-2025 15:40

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 06-Aug-2025		Analyst: JC
Arsenic	**0.00493**		**0.000510**	**0.00200**	**mg/L**	1	07-Aug-2025 11:14
Barium	**0.197**		**0.000750**	**0.00500**	**mg/L**	1	07-Aug-2025 11:14
Calcium	**64.3**		**0.120**	**0.500**	**mg/L**	1	07-Aug-2025 11:14
Chromium	U		0.00173	0.00500	mg/L	1	07-Aug-2025 11:14
Iron	U		0.0600	0.200	mg/L	1	07-Aug-2025 11:14
Lead	U		0.000470	0.00200	mg/L	1	07-Aug-2025 11:14
Magnesium	**13.4**		**0.0408**	**0.200**	**mg/L**	1	07-Aug-2025 11:14
Manganese	**0.276**		**0.00190**	**0.00500**	**mg/L**	1	07-Aug-2025 11:14
Nickel	U		0.00130	0.00500	mg/L	1	07-Aug-2025 11:14
Potassium	**2.19**		**0.0869**	**0.500**	**mg/L**	1	07-Aug-2025 11:14
Sodium	**195**		**2.60**	**10.0**	**mg/L**	20	07-Aug-2025 13:43
Strontium	**0.507**		**0.000300**	**0.00500**	**mg/L**	1	07-Aug-2025 11:14
Vanadium	**0.00107**	J	**0.000600**	**0.00500**	**mg/L**	1	07-Aug-2025 11:14
Zinc	**0.00532**	J	**0.00300**	**0.0100**	**mg/L**	1	07-Aug-2025 11:14
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 07-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	07-Aug-2025 12:24
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**3.74**		**0.500**	**1.00**	**mg/L**	1	06-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**776**		**3.00**	**10.0**	**mg/L**	1	07-Aug-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**119**		**1.20**	**5.00**	**mg/L**	1	06-Aug-2025 19:53
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	06-Aug-2025 19:53
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**3.52**	J	**0.920**	**5.00**	**mg/L**	1	06-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.53**	H	**0.100**	**1.00**	**pH Units**	1	06-Aug-2025 16:32
Temp Deg C @pH	**18.3**	H	**0**	**0**	**°C**	1	06-Aug-2025 16:32
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	07-Aug-2025 14:21
Chloride	**307**		**2.00**	**5.00**	**mg/L**	10	07-Aug-2025 14:45
Sulfate	**82.4**		**0.200**	**0.500**	**mg/L**	1	07-Aug-2025 14:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LZ- Bott
Collection Date: 01-Aug-2025 15:55

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	07-Aug-2025 06:08
Ethylbenzene		U	0.00033	0.0020	mg/L	1	07-Aug-2025 06:08
m,p-Xylene		U	0.00061	0.0040	mg/L	1	07-Aug-2025 06:08
o-Xylene		U	0.00031	0.0020	mg/L	1	07-Aug-2025 06:08
Toluene		U	0.00033	0.0020	mg/L	1	07-Aug-2025 06:08
Xylenes, Total		U	0.00092	0.0060	mg/L	1	07-Aug-2025 06:08
Surr: 1,2-Dichloroethane-d4	*102*			*70-126*	*%REC*	*1*	*07-Aug-2025 06:08*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*07-Aug-2025 06:08*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*07-Aug-2025 06:08*
Surr: Toluene-d8	*98.6*			*82-127*	*%REC*	*1*	*07-Aug-2025 06:08*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	07-Aug-2025 14:13
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	07-Aug-2025 14:13
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	07-Aug-2025 14:13
Surr: 2,5-Dibromotoluene (Aliphatic)	*94.5*			*70-130*	*%REC*	*1*	*07-Aug-2025 14:13*
Surr: 2,5-Dibromotoluene (Aromatic)	*92.3*			*70-130*	*%REC*	*1*	*07-Aug-2025 14:13*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 06-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:55
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:55
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:55
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:55
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:55
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:55
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	07-Aug-2025 13:55
Surr: 1-Chlorooctadecane	*59.6*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:55*
Surr: 2-Bromonaphthalene	*82.2*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:55*
Surr: 2-Fluorobiphenyl	*80.8*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:55*
Surr: o-Terphenyl	*68.0*			*40-140*	*%REC*	*1*	*07-Aug-2025 13:55*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: LZ- Bott
Collection Date: 01-Aug-2025 15:55

ANALYTICAL REPORT
WorkOrder:HS25080201
Lab ID:HS25080201-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 06-Aug-2025		Analyst: JC
Arsenic	**0.00117**	J	**0.000510**	**0.00200**	**mg/L**	1	07-Aug-2025 11:16
Barium	**0.252**		**0.000750**	**0.00500**	**mg/L**	1	07-Aug-2025 11:16
Calcium	**68.2**		**0.120**	**0.500**	**mg/L**	1	07-Aug-2025 11:16
Chromium	U		0.00173	0.00500	mg/L	1	07-Aug-2025 11:16
Iron	U		0.0600	0.200	mg/L	1	07-Aug-2025 11:16
Lead	U		0.000470	0.00200	mg/L	1	07-Aug-2025 11:16
Magnesium	**14.3**		**0.0408**	**0.200**	**mg/L**	1	07-Aug-2025 11:16
Manganese	**1.40**		**0.00190**	**0.00500**	**mg/L**	1	07-Aug-2025 11:16
Nickel	U		0.00130	0.00500	mg/L	1	07-Aug-2025 11:16
Potassium	**2.05**		**0.0869**	**0.500**	**mg/L**	1	07-Aug-2025 11:16
Sodium	**210**		**2.60**	**10.0**	**mg/L**	20	07-Aug-2025 13:45
Strontium	**0.540**		**0.000300**	**0.00500**	**mg/L**	1	07-Aug-2025 11:16
Vanadium	**0.00133**	J	**0.000600**	**0.00500**	**mg/L**	1	07-Aug-2025 11:16
Zinc	**0.00408**	J	**0.00300**	**0.0100**	**mg/L**	1	07-Aug-2025 11:16
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 07-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	07-Aug-2025 12:25
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	06-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**716**		**3.00**	**10.0**	**mg/L**	1	06-Aug-2025 10:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**136**		**1.20**	**5.00**	**mg/L**	1	06-Aug-2025 19:59
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	06-Aug-2025 19:59
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	06-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.65**	H	**0.100**	**1.00**	**pH Units**	1	06-Aug-2025 16:00
Temp Deg C @pH	**23.1**	H	**0**	**0**	**°C**	1	06-Aug-2025 16:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	07-Aug-2025 14:27
Chloride	**307**		**2.00**	**5.00**	**mg/L**	10	07-Aug-2025 14:51
Sulfate	**77.7**		**0.200**	**0.500**	**mg/L**	1	07-Aug-2025 14:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

Batch ID: 231364 **Start Date:** 06 Aug 2025 11:52 **End Date:** 06 Aug 2025 11:52
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25080201-01	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25080201-02	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25080201-03	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25080201-04	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 231373 **Start Date:** 06 Aug 2025 12:00 **End Date:** 06 Aug 2025 12:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25080201-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25080201-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25080201-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25080201-04		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 231434 **Start Date:** 07 Aug 2025 08:00 **End Date:** 07 Aug 2025 08:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25080201-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25080201-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25080201-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25080201-04		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 231364 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40		06 Aug 2025 11:52	07 Aug 2025 11:59	1
HS25080201-01	KZ- Top	01 Aug 2025 16:40		06 Aug 2025 11:52	07 Aug 2025 11:59	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15		06 Aug 2025 11:52	07 Aug 2025 12:58	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15		06 Aug 2025 11:52	07 Aug 2025 12:58	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40		06 Aug 2025 11:52	07 Aug 2025 13:27	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40		06 Aug 2025 11:52	07 Aug 2025 13:27	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55		06 Aug 2025 11:52	07 Aug 2025 13:55	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55		06 Aug 2025 11:52	07 Aug 2025 13:55	1
Batch ID: 231373 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40		06 Aug 2025 12:00	07 Aug 2025 11:04	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15		06 Aug 2025 12:00	07 Aug 2025 13:41	20
HS25080201-02	KZ- Bott	01 Aug 2025 15:15		06 Aug 2025 12:00	07 Aug 2025 11:12	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40		06 Aug 2025 16:30	07 Aug 2025 13:43	20
HS25080201-03	LZ- Top	01 Aug 2025 15:40		06 Aug 2025 16:30	07 Aug 2025 11:14	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55		06 Aug 2025 12:00	07 Aug 2025 13:45	20
HS25080201-04	LZ- Bott	01 Aug 2025 15:55		06 Aug 2025 12:00	07 Aug 2025 11:16	1
Batch ID: 231434 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40		07 Aug 2025 08:00	07 Aug 2025 12:20	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15		07 Aug 2025 08:00	07 Aug 2025 12:22	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40		07 Aug 2025 08:00	07 Aug 2025 12:24	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55		07 Aug 2025 08:00	07 Aug 2025 12:25	1
Batch ID: R519172 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			06 Aug 2025 10:00	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			06 Aug 2025 10:00	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			06 Aug 2025 10:00	1
Batch ID: R519173 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			06 Aug 2025 11:00	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			06 Aug 2025 11:00	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40			06 Aug 2025 11:00	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			06 Aug 2025 11:00	1
Batch ID: R519175 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			06 Aug 2025 19:36	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			06 Aug 2025 19:48	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40			06 Aug 2025 19:53	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			06 Aug 2025 19:59	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R519176 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			06 Aug 2025 15:44	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			06 Aug 2025 15:55	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40			06 Aug 2025 16:32	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			06 Aug 2025 16:00	1
Batch ID: R519191 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			06 Aug 2025 11:00	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			06 Aug 2025 11:00	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40			06 Aug 2025 11:00	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			06 Aug 2025 11:00	1
Batch ID: R519213 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			06 Aug 2025 21:28	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			06 Aug 2025 21:49	1
Batch ID: R519215 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			07 Aug 2025 06:08	1
Batch ID: R519229 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25080201-03	LZ- Top	01 Aug 2025 15:40			07 Aug 2025 11:47	1
Batch ID: R519258 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25080201-03	LZ- Top	01 Aug 2025 15:40			07 Aug 2025 10:00	1
Batch ID: R519260 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			07 Aug 2025 12:17	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			07 Aug 2025 12:55	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40			07 Aug 2025 13:34	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			07 Aug 2025 14:13	1
Batch ID: R519263 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			07 Aug 2025 12:17	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			07 Aug 2025 12:55	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40			07 Aug 2025 13:34	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			07 Aug 2025 14:13	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R519278 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25080201-01	KZ- Top	01 Aug 2025 16:40			07 Aug 2025 14:33	10
HS25080201-01	KZ- Top	01 Aug 2025 16:40			07 Aug 2025 14:10	1
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			07 Aug 2025 14:39	10
HS25080201-02	KZ- Bott	01 Aug 2025 15:15			07 Aug 2025 14:15	1
HS25080201-03	LZ- Top	01 Aug 2025 15:40			07 Aug 2025 14:45	10
HS25080201-03	LZ- Top	01 Aug 2025 15:40			07 Aug 2025 14:21	1
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			07 Aug 2025 14:51	10
HS25080201-04	LZ- Bott	01 Aug 2025 15:55			07 Aug 2025 14:27	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: 231364 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-231364** Units: **mg/L** Analysis Date: **07-Aug-2025 11:01**
Client ID: Run ID: **FID23_519270** SeqNo: **8976329** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02695*	*0*	*0.04*	*0*	*67.4*	*40 - 140*				

MBLK Sample ID: **MBLK-231364** Units: **mg/L** Analysis Date: **07-Aug-2025 11:01**
Client ID: Run ID: **FID-22_519271** SeqNo: **8976338** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03336*	*0*	*0.04*	*0*	*83.4*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03281*	*0*	*0.04*	*0*	*82.0*	*40 - 140*				
Surr: o-Terphenyl	*0.02917*	*0*	*0.04*	*0*	*72.9*	*40 - 140*				

LCS Sample ID: **LCS-231364** Units: **mg/L** Analysis Date: **07-Aug-2025 11:30**
Client ID: Run ID: **FID23_519270** SeqNo: **8976330** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04152	0.100	0.05	0	83.0	40 - 140				J
Aliphatics >C12 - C16	0.09268	0.100	0.1	0	92.7	40 - 140				J
Aliphatics >C16 - C35	0.3639	0.100	0.4	0	91.0	40 - 140				
Surr: 1-Chlorooctadecane	*0.02652*	*0*	*0.04*	*0*	*66.3*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: 231364 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-231364** Units: **mg/L** Analysis Date: **07-Aug-2025 11:30**
Client ID: Run ID: **FID-22_519271** SeqNo: **8976339** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04499	0.100	0.05	0	90.0	40 - 140				J
Aromatics >C12 - C16	0.1687	0.100	0.2	0	84.3	40 - 140				
Aromatics >C16 - C21	0.1377	0.100	0.15	0	91.8	40 - 140				
Aromatics >C21 - C35	0.419	0.100	0.45	0	93.1	40 - 140				
Surr: 2-Bromonaphthalene	*0.03472*	*0*	*0.04*	*0*	*86.8*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03485*	*0*	*0.04*	*0*	*87.1*	*40 - 140*				
Surr: o-Terphenyl	*0.03022*	*0*	*0.04*	*0*	*75.5*	*40 - 140*				

LCSD Sample ID: **LCSD-231364** Units: **mg/L** Analysis Date: **07-Aug-2025 12:29**
Client ID: Run ID: **FID23_519270** SeqNo: **8976332** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04145	0.100	0.05	0	82.9	40 - 140	0.04152	0	50	J
Aliphatics >C12 - C16	0.09182	0.100	0.1	0	91.8	40 - 140	0.09268	0	50	J
Aliphatics >C16 - C35	0.3622	0.100	0.4	0	90.6	40 - 140	0.3639	0.48	50	
Surr: 1-Chlorooctadecane	*0.02643*	*0*	*0.04*	*0*	*66.1*	*40 - 140*	*0.02652*	*0.361*	*50*	

LCSD Sample ID: **LCSD-231364** Units: **mg/L** Analysis Date: **07-Aug-2025 12:29**
Client ID: Run ID: **FID-22_519271** SeqNo: **8976341** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04559	0.100	0.05	0	91.2	40 - 140	0.04499	0	50	J
Aromatics >C12 - C16	0.1713	0.100	0.2	0	85.6	40 - 140	0.1687	1.51	50	
Aromatics >C16 - C21	0.1395	0.100	0.15	0	93.0	40 - 140	0.1377	1.27	50	
Aromatics >C21 - C35	0.4237	0.100	0.45	0	94.1	40 - 140	0.419	1.11	50	
Surr: 2-Bromonaphthalene	*0.03536*	*0*	*0.04*	*0*	*88.4*	*40 - 140*	*0.03472*	*1.8*	*50*	
Surr: 2-Fluorobiphenyl	*0.03535*	*0*	*0.04*	*0*	*88.4*	*40 - 140*	*0.03485*	*1.44*	*50*	
Surr: o-Terphenyl	*0.03062*	*0*	*0.04*	*0*	*76.5*	*40 - 140*	*0.03022*	*1.31*	*50*	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519260 (0) **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MBLK Sample ID: **MBLK-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 11:38**
Client ID: Run ID: **FID-14_519260** SeqNo: **8976197** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2473*	*0.0100*	*0.25*	*0*	*98.9*	*70 - 130*				

LCS Sample ID: **LCS-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 10:20**
Client ID: Run ID: **FID-14_519260** SeqNo: **8976195** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02903	0.00500	0.025	0	116	70 - 130				
Aliphatics >C8 - C10	0.02218	0.00500	0.025	0	88.7	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2486*	*0.0100*	*0.25*	*0*	*99.4*	*70 - 130*				

LCSD Sample ID: **LCSD-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 10:59**
Client ID: Run ID: **FID-14_519260** SeqNo: **8976196** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02397	0.00500	0.025	0	95.9	70 - 130	0.02903	19.1	25	
Aliphatics >C8 - C10	0.01857	0.00500	0.025	0	74.3	70 - 130	0.02218	17.7	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2446*	*0.0100*	*0.25*	*0*	*97.9*	*70 - 130*	*0.2486*	*1.61*	*25*	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519263 (0) **Instrument: FID-15** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MBLK Sample ID: **MBLK-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 11:38**
Client ID: Run ID: **FID-15_519263** SeqNo: **8976216** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2413*	*0.0100*	*0.25*	*0*	*96.5*	*70 - 130*				

LCS Sample ID: **LCS-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 10:20**
Client ID: Run ID: **FID-15_519263** SeqNo: **8976214** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08652	0.0200	0.1	0	86.5	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2426*	*0.0100*	*0.25*	*0*	*97.0*	*70 - 130*				

LCSD Sample ID: **LCSD-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 10:59**
Client ID: Run ID: **FID-15_519263** SeqNo: **8976215** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08189	0.0200	0.1	0	81.9	70 - 130	0.08652	5.49	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2391*	*0.0100*	*0.25*	*0*	*95.6*	*70 - 130*	*0.2426*	*1.48*	*25*	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: 231373 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-231373** Units: **mg/L** Analysis Date: **07-Aug-2025 10:47**
Client ID: Run ID: **ICPMS06_519205** SeqNo: **8975377** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00500								
Calcium	U	0.500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00500								
Potassium	U	0.500								
Sodium	U	0.500								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.0100								

LCS Sample ID: **LCS-231373** Units: **mg/L** Analysis Date: **07-Aug-2025 10:49**
Client ID: Run ID: **ICPMS06_519205** SeqNo: **8975378** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04512	0.00200	0.05	0	90.2	80 - 120				
Barium	0.04515	0.00500	0.05	0	90.3	80 - 120				
Calcium	4.901	0.500	5	0	98.0	80 - 120				
Chromium	0.04689	0.00500	0.05	0	93.8	80 - 120				
Iron	4.835	0.200	5	0	96.7	80 - 120				
Lead	0.0426	0.00200	0.05	0	85.2	80 - 120				
Magnesium	4.961	0.200	5	0	99.2	80 - 120				
Manganese	0.04666	0.00500	0.05	0	93.3	80 - 120				
Nickel	0.0468	0.00500	0.05	0	93.6	80 - 120				
Potassium	5.028	0.500	5	0	101	80 - 120				
Sodium	4.938	0.500	5	0	98.8	80 - 120				
Strontium	0.09482	0.00500	0.1	0	94.8	80 - 120				
Vanadium	0.04668	0.00500	0.05	0	93.4	80 - 120				
Zinc	0.0473	0.0100	0.05	0	94.6	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: 231373 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25080201-01MS** Units: **mg/L** Analysis Date: **07-Aug-2025 11:06**
Client ID: **KZ- Top** Run ID: **ICPMS06_519205** SeqNo: **8975385** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05065	0.00200	0.05	0.00232	96.7	80 - 120				
Barium	0.2828	0.00500	0.05	0.2111	143	80 - 120				SO
Calcium	69.21	0.500	5	64.53	93.7	80 - 120				O
Chromium	0.04838	0.00500	0.05	0.000633	95.5	80 - 120				
Iron	5.01	0.200	5	0.04541	99.3	80 - 120				
Lead	0.04661	0.00200	0.05	0.000072	93.1	80 - 120				
Magnesium	20.08	0.200	5	14.82	105	80 - 120				
Manganese	0.9723	0.00500	0.05	0.9278	89.0	80 - 120				O
Nickel	0.04681	0.00500	0.05	0.00073	92.2	80 - 120				
Potassium	8.237	0.500	5	3.028	104	80 - 120				
Sodium	163.6	0.500	5	158.7	97.9	80 - 120				O
Strontium	0.6042	0.00500	0.1	0.4947	109	80 - 120				O
Vanadium	0.04942	0.00500	0.05	0.000713	97.4	80 - 120				
Zinc	0.05979	0.0100	0.05	0.01129	97.0	80 - 120				

MSD Sample ID: **HS25080201-01MSD** Units: **mg/L** Analysis Date: **07-Aug-2025 11:08**
Client ID: **KZ- Top** Run ID: **ICPMS06_519205** SeqNo: **8975386** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05103	0.00200	0.05	0.00232	97.4	80 - 120	0.05065	0.757	20	
Barium	0.2779	0.00500	0.05	0.2111	134	80 - 120	0.2828	1.74	20	SO
Calcium	68.92	0.500	5	64.53	87.8	80 - 120	69.21	0.43	20	O
Chromium	0.04899	0.00500	0.05	0.000633	96.7	80 - 120	0.04838	1.24	20	
Iron	5.102	0.200	5	0.04541	101	80 - 120	5.01	1.82	20	
Lead	0.04686	0.00200	0.05	0.000072	93.6	80 - 120	0.04661	0.518	20	
Magnesium	20.07	0.200	5	14.82	105	80 - 120	20.08	0.0737	20	
Manganese	0.9755	0.00500	0.05	0.9278	95.3	80 - 120	0.9723	0.325	20	O
Nickel	0.04684	0.00500	0.05	0.00073	92.2	80 - 120	0.04681	0.0705	20	
Potassium	8.242	0.500	5	3.028	104	80 - 120	8.237	0.0596	20	
Sodium	166.1	0.500	5	158.7	148	80 - 120	163.6	1.5	20	SO
Strontium	0.592	0.00500	0.1	0.4947	97.3	80 - 120	0.6042	2.04	20	O
Vanadium	0.05008	0.00500	0.05	0.000713	98.7	80 - 120	0.04942	1.33	20	
Zinc	0.05885	0.0100	0.05	0.01129	95.1	80 - 120	0.05979	1.58	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: 231373 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25080201-01PDS** Units: **mg/L** Analysis Date: **07-Aug-2025 11:10**
Client ID: **KZ- Top** Run ID: **ICPMS06_519205** SeqNo: **8975387** PrepDate: **06-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09607	0.00200	0.1	0.00232	93.7	75 - 125				
Barium	0.3103	0.00500	0.1	0.2111	99.2	75 - 125				
Calcium	69.97	0.500	10	64.53	54.5	75 - 125				SO
Chromium	0.09389	0.00500	0.1	0.000633	93.3	75 - 125				
Iron	9.681	0.200	10	0.04541	96.4	75 - 125				
Lead	0.09321	0.00200	0.1	0.000072	93.1	75 - 125				
Magnesium	23.58	0.200	10	14.82	87.6	75 - 125				
Manganese	0.9649	0.00500	0.1	0.9278	37.0	75 - 125				SO
Nickel	0.09046	0.00500	0.1	0.00073	89.7	75 - 125				
Potassium	12.63	0.500	10	3.028	96.0	75 - 125				
Sodium	159.9	0.500	10	158.7	11.7	75 - 125				SO
Strontium	0.5698	0.00500	0.1	0.4947	75.1	75 - 125				O
Vanadium	0.09528	0.00500	0.1	0.000713	94.6	75 - 125				
Zinc	0.1034	0.0100	0.1	0.01129	92.1	75 - 125				

SD Sample ID: **HS25080201-01SD** Units: **mg/L** Analysis Date: **07-Aug-2025 11:01**
Client ID: **KZ- Top** Run ID: **ICPMS06_519205** SeqNo: **8975383** PrepDate: **06-Aug-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.00232	0	10	
Barium	0.2134	0.0250					0.2111	1.1	10	
Calcium	64.8	2.50					64.53	0.426	10	
Chromium	U	0.0250					0.000633	0	10	
Iron	U	1.00					0.04541	0	10	
Lead	U	0.0100					0.000072	0	10	
Magnesium	15.27	1.00					14.82	3.07	10	
Manganese	0.9706	0.0250					0.9278	4.61	10	
Nickel	U	0.0250					0.00073	0	10	
Potassium	3.272	2.50					3.028	8.06	10	
Sodium	163.7	2.50					158.7	3.16	10	
Strontium	0.5162	0.0250					0.4947	4.33	10	
Vanadium	U	0.0250					0.000713	0	10	
Zinc	U	0.0500					0.01129	0	10	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: 231434 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-231434** Units: **mg/L** Analysis Date: **07-Aug-2025 11:57**
Client ID: Run ID: **HG05_519249** SeqNo: **8975872** PrepDate: **07-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-231434** Units: **mg/L** Analysis Date: **07-Aug-2025 11:59**
Client ID: Run ID: **HG05_519249** SeqNo: **8975873** PrepDate: **07-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00539	0.000200	0.005	0	108	80 - 120				

MS Sample ID: **HS25080153-04MS** Units: **mg/L** Analysis Date: **07-Aug-2025 12:06**
Client ID: Run ID: **HG05_519249** SeqNo: **8975877** PrepDate: **07-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00537	0.000200	0.005	-0.000008	108	75 - 125				

MSD Sample ID: **HS25080153-04MSD** Units: **mg/L** Analysis Date: **07-Aug-2025 12:07**
Client ID: Run ID: **HG05_519249** SeqNo: **8975878** PrepDate: **07-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00534	0.000200	0.005	-0.000008	107	75 - 125	0.00537	0.56	20	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519213 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250806** Units: **mg/L** Analysis Date: **06-Aug-2025 14:32**
Client ID: Run ID: **VOA4_519213** SeqNo: **8975128** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.049*	*0.0010*	*0.05*	*0*	*97.6*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*99.2*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.4*	*81 - 120*				

LCS Sample ID: **LCS-250806** Units: **mg/L** Analysis Date: **06-Aug-2025 13:29**
Client ID: Run ID: **VOA4_519213** SeqNo: **8975125** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.021	0.0010	0.02	0	103	74 - 120				
Ethylbenzene	0.020	0.0020	0.02	0	102	77 - 117				
m,p-Xylene	0.042	0.0040	0.04	0	104	77 - 122				
o-Xylene	0.021	0.0020	0.02	0	105	75 - 119				
Toluene	0.020	0.0020	0.02	0	102	77 - 118				
Xylenes, Total	0.063	0.0060	0.06	0	104	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*102*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*100*	*77 - 113*				
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*103*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.4*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519213 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250806** Units: **mg/L** Analysis Date: **06-Aug-2025 13:50**
Client ID: Run ID: **VOA4_519213** SeqNo: **8975126** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	96.2	74 - 120	0.02062	6.96	20	
Ethylbenzene	0.019	0.0020	0.02	0	94.9	77 - 117	0.02040	7.22	20	
m,p-Xylene	0.038	0.0040	0.04	0	95.3	77 - 122	0.04154	8.57	20	
o-Xylene	0.019	0.0020	0.02	0	95.9	75 - 119	0.02102	9.16	20	
Toluene	0.019	0.0020	0.02	0	95.1	77 - 118	0.02046	7.3	20	
Xylenes, Total	0.057	0.0060	0.06	0	95.5	75 - 122	0.06256	8.77	20	
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*101*	*70 - 123*	*0.05104*	*0.988*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*99.3*	*77 - 113*	*0.05004*	*0.803*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*99.2*	*73 - 126*	*0.05133*	*3.43*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.5*	*81 - 120*	*0.04968*	*0.173*	*20*	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519215 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250806** Units: **mg/L** Analysis Date: **07-Aug-2025 00:14**
Client ID: Run ID: **VOA4_519215** SeqNo: **8975209** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*102*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*104*	*77 - 113*				
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*102*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*98.0*	*81 - 120*				

LCS Sample ID: **LCS-250806** Units: **mg/L** Analysis Date: **06-Aug-2025 23:12**
Client ID: Run ID: **VOA4_519215** SeqNo: **8975204** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	101	74 - 120				
Ethylbenzene	0.020	0.0020	0.02	0	101	77 - 117				
m,p-Xylene	0.041	0.0040	0.04	0	102	77 - 122				
o-Xylene	0.020	0.0020	0.02	0	101	75 - 119				
Toluene	0.020	0.0020	0.02	0	102	77 - 118				
Xylenes, Total	0.061	0.0060	0.06	0	101	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*103*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.9*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519215 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250806** Units: **mg/L** Analysis Date: **06-Aug-2025 23:33**
Client ID: Run ID: **VOA4_519215** SeqNo: **8975205** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	94.4	74 - 120	0.02012	6.39	20	
Ethylbenzene	0.019	0.0020	0.02	0	92.7	77 - 117	0.02013	8.28	20	
m,p-Xylene	0.037	0.0040	0.04	0	93.2	77 - 122	0.04064	8.62	20	
o-Xylene	0.019	0.0020	0.02	0	93.7	75 - 119	0.02011	7.01	20	
Toluene	0.019	0.0020	0.02	0	93.1	77 - 118	0.02034	8.9	20	
Xylenes, Total	0.056	0.0060	0.06	0	93.4	75 - 122	0.06076	8.08	20	
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*102*	*70 - 123*	*0.05146*	*0.973*	*20*	
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*103*	*77 - 113*	*0.05063*	*1.39*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*100*	*73 - 126*	*0.05038*	*0.519*	*20*	
Surr: Toluene-d8	*0.048*	*0.0010*	*0.05*	*0*	*96.8*	*81 - 120*	*0.04996*	*3.18*	*20*	

The following samples were analyzed in this batch: HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519229 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 10:45**
Client ID: Run ID: **VOA4_519229** SeqNo: **8975548** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.052*	*0.0010*	*0.05*	*0*	*104*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*102*	*77 - 113*				
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*0.048*	*0.0010*	*0.05*	*0*	*95.5*	*81 - 120*				

LCS Sample ID: **LCS-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 09:43**
Client ID: Run ID: **VOA4_519229** SeqNo: **8975555** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	100.0	74 - 120				
Ethylbenzene	0.019	0.0020	0.02	0	95.5	77 - 117				
m,p-Xylene	0.038	0.0040	0.04	0	95.9	77 - 122				
o-Xylene	0.019	0.0020	0.02	0	96.6	75 - 119				
Toluene	0.019	0.0020	0.02	0	95.9	77 - 118				
Xylenes, Total	0.058	0.0060	0.06	0	96.1	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*102*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*102*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*98.8*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519229 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250807** Units: **mg/L** Analysis Date: **07-Aug-2025 10:04**
Client ID: Run ID: **VOA4_519229** SeqNo: **8975547** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	95.0	74 - 120	0.01999	5.09	20	
Ethylbenzene	0.018	0.0020	0.02	0	92.0	77 - 117	0.01909	3.64	20	
m,p-Xylene	0.037	0.0040	0.04	0	93.2	77 - 122	0.03836	2.81	20	
o-Xylene	0.019	0.0020	0.02	0	92.8	75 - 119	0.01932	4.01	20	
Toluene	0.018	0.0020	0.02	0	92.2	77 - 118	0.01918	3.89	20	
Xylenes, Total	0.056	0.0060	0.06	0	93.1	75 - 122	0.05768	3.21	20	
Surr: 1,2-Dichloroethane-d4	*0.053*	*0.0010*	*0.05*	*0*	*106*	*70 - 123*	*0.05110*	*3.25*	*20*	
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*	*0.05088*	*2.76*	*20*	
Surr: Dibromofluoromethane	*0.049*	*0.0010*	*0.05*	*0*	*98.4*	*73 - 126*	*0.05018*	*1.92*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100*	*81 - 120*	*0.04940*	*1.36*	*20*	

The following samples were analyzed in this batch: HS25080201-03

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519172 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-08062025** Units: **mg/L** Analysis Date: **06-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519172** SeqNo: **8974240** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-08062025** Units: **mg/L** Analysis Date: **06-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519172** SeqNo: **8974239** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	952	10.0	1000	0	95.2	85 - 115				

DUP Sample ID: **HS25080203-01DUP** Units: **mg/L** Analysis Date: **06-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519172** SeqNo: **8974238** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	2010	10.0					1920	4.58	20	

DUP Sample ID: **HS25080113-03DUP** Units: **mg/L** Analysis Date: **06-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519172** SeqNo: **8974221** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1710	10.0					1680	1.77	20	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519173 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R519173** Units: **mg/L** Analysis Date: **06-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_519173** SeqNo: **8974259** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R519173** Units: **mg/L** Analysis Date: **06-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_519173** SeqNo: **8974258** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.12	5.00	25	0	88.5	85 - 115				

LCSD Sample ID: **LCSD-R519173** Units: **mg/L** Analysis Date: **06-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_519173** SeqNo: **8974257** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.92	5.00	25	0	87.7	85 - 115	22.12	0.908	20	

MS Sample ID: **HS25080201-01MS** Units: **mg/L** Analysis Date: **06-Aug-2025 11:00**
Client ID: **KZ- Top** Run ID: **WetChem_HS_519173** SeqNo: **8974260** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.12	5.00	25	-0.48	90.4	80 - 120				

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519175 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-08.06.2025** Units: **mg/L** Analysis Date: **06-Aug-2025 19:18**
Client ID: Run ID: **Skalar 03_519175** SeqNo: **8975349** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-08.06.2025** Units: **mg/L** Analysis Date: **06-Aug-2025 19:24**
Client ID: Run ID: **Skalar 03_519175** SeqNo: **8975350** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	985.4	5.00	1000	0	98.5	85 - 115				

LCSD Sample ID: **LCSD-08.06.2025** Units: **mg/L** Analysis Date: **06-Aug-2025 19:31**
Client ID: Run ID: **Skalar 03_519175** SeqNo: **8975351** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	992.4	5.00	1000	0	99.2	85 - 115	985.4	0.708	20	

DUP Sample ID: **HS25080201-01DUP** Units: **mg/L** Analysis Date: **06-Aug-2025 19:42**
Client ID: **KZ- Top** Run ID: **Skalar 03_519175** SeqNo: **8975353** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	136.1	5.00					136.4	0.22	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: **R519176 (0)** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25080201-01DUP** Units: **pH Units** Analysis Date: **06-Aug-2025 15:49**
Client ID: **KZ- Top** Run ID: **Skalar 03_519176** SeqNo: **8974341** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.74	1.00					7.73	0.129	10	
Temp Deg C @pH	22.7	0					22.5	0.885	10	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519191 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R519191** Units: **mg/L** Analysis Date: **06-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_519191** SeqNo: **8974720** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R519191** Units: **mg/L** Analysis Date: **06-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_519191** SeqNo: **8974719** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.5	1.00	26.56	0	88.5	80 - 120				

LCSD Sample ID: **LCSD-R519191** Units: **mg/L** Analysis Date: **06-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_519191** SeqNo: **8974718** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.29	1.00	26.56	0	87.7	80 - 120	23.5	0.908	20	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519258 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-08072025** Units: **mg/L** Analysis Date: **07-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519258** SeqNo: **8976127** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-08072025** Units: **mg/L** Analysis Date: **07-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519258** SeqNo: **8976126** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	952	10.0	1000	0	95.2	85 - 115				

DUP Sample ID: **HS25080262-03DUP** Units: **mg/L** Analysis Date: **07-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519258** SeqNo: **8976120** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1590	10.0					1500	5.83	20	

DUP Sample ID: **HS25080227-01DUP** Units: **mg/L** Analysis Date: **07-Aug-2025 10:00**
Client ID: Run ID: **Balance1_519258** SeqNo: **8976112** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	170000	10.0					170200	0.118	20	

The following samples were analyzed in this batch: HS25080201-03

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25080201

QC BATCH REPORT

Batch ID: R519278 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **07-Aug-2025 11:32**
Client ID: Run ID: **ICS-Integrion_519278** SeqNo: **8976489** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **07-Aug-2025 11:44**
Client ID: Run ID: **ICS-Integrion_519278** SeqNo: **8976490** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.924	0.100	4	0	98.1	80 - 120				
Chloride	20.1	0.500	20	0	101	80 - 120				
Sulfate	20.17	0.500	20	0	101	80 - 120				

MS Sample ID: **HS25080259-02MS** Units: **mg/L** Analysis Date: **07-Aug-2025 12:24**
Client ID: Run ID: **ICS-Integrion_519278** SeqNo: **8976497** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	8.214	0.500	10	0	82.1	80 - 120				
Chloride	159.7	2.50	50	111.2	97.0	80 - 120				
Sulfate	199.7	2.50	50	152.9	93.5	80 - 120				

MSD Sample ID: **HS25080259-02MSD** Units: **mg/L** Analysis Date: **07-Aug-2025 12:30**
Client ID: Run ID: **ICS-Integrion_519278** SeqNo: **8976498** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	8.376	0.500	10	0	83.8	80 - 120	8.214	1.94	20	
Chloride	160	2.50	50	111.2	97.5	80 - 120	159.7	0.178	20	
Sulfate	200.6	2.50	50	152.9	95.3	80 - 120	199.7	0.456	20	

The following samples were analyzed in this batch: HS25080201-01 HS25080201-02 HS25080201-03 HS25080201-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25080201**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oklahoma	2023-140	31-Aug-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	T104704231 TX-C24-00130	30-Apr-2026

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25080201 **Date/Time Received:** **05-Aug-2025 09:00**

Client Name: ERMSW-HOU **Received by:** **Belinda Gomez**

Completed By:	/S/ Edgar Zheku	05-Aug-2025 18:30	**Reviewed by:**	/S/ Alexis Dorenbosch	06-Aug-2025 16:29
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:318959
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.5UC/2.5C	IR 34
Cooler(s)/Kit(s):	50823	
Date/Time sample(s) sent to storage:	08/05/2025 18:30	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 318959

HS25080201

WV

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information	
Purchase Order	0777906	Project Name	Sulphur Dome
Work Order		Project Number	0777906
Company Name	ERM	Bill To Company	
Send Report To	Scott.Hines@ERM.com	Invoice Attn	
Address	8511 W/Post Sam Houston Pkwy N. #600	Address	
City/State/Zip	Houston, TX	City/State/Zip	
Phone	713 850-4361	Phone	
Fax		Fax	
e-Mail Address	Scott.Hines@ERM.com	e-Mail Address	

A	BTEX
B	ICP: As, Ba, Ca, Cr, Fe, Pb, Mg, Mn, K, Na, Sr, Zn, Ni, V
C	Mercury
D	EPH
E	VPH
F	pH
G	ALK_W332C Bicarb, Carb, Bicarb
H	H_2S
I	Sulfide
J	TDS

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	KZ-Top	8/1/25	1640	SW	1,2,4,8	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	KZ-Bott		1515		1,2,4,8	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	LZ-Top		1540		none	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	LZ-Bott	8/1/25	1555	SW	1,2,4,8	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Marcus Smith MS

Shipment Method:

Required Turnaround Time: (Check Box) Rush

Results Due Date:

Relinquished by: MS	Date: 8/4/25	Time: 0220	Received by:	
Relinquished by:	Date:	Time:	Received by (Laboratory):	8/5/25 0730
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp.
50823	2.5

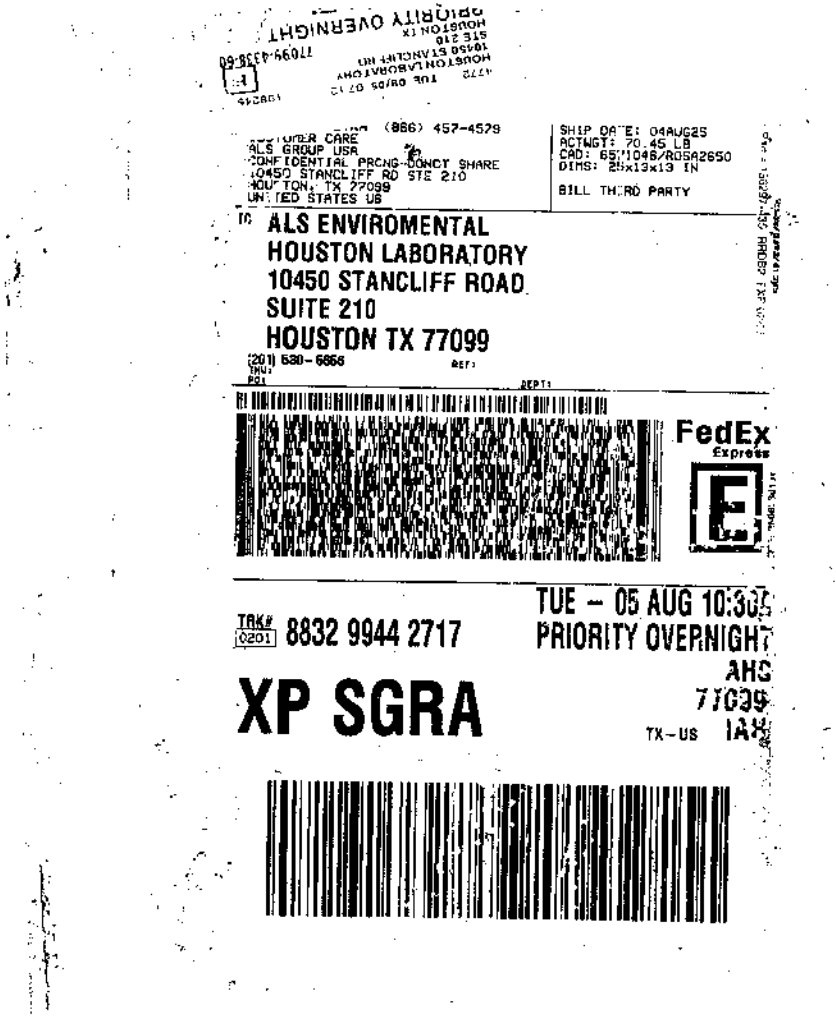
QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions

Copyright 2011 by ALS Environmental

RIGHT SOLUTIONS | RIGHT PARTNER



RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

August 27, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25081154**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 24 sample(s) on Aug 22, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch
Project Manager

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25081154

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25081154-01	MW-3-500	Water		19-Aug-2025 10:40	22-Aug-2025 09:58	☐
HS25081154-02	FB-081925	Water		19-Aug-2025 13:30	22-Aug-2025 09:58	☐
HS25081154-03	MW-3-200	Water		19-Aug-2025 15:30	22-Aug-2025 09:58	☐
HS25081154-04	MW-3-700	Water		20-Aug-2025 08:40	22-Aug-2025 09:58	☐
HS25081154-05	MW-1-500	Water		20-Aug-2025 10:30	22-Aug-2025 09:58	☐
HS25081154-06	MW-1-700	Water		20-Aug-2025 12:15	22-Aug-2025 09:58	☐
HS25081154-07	MW-1-200	Water		20-Aug-2025 14:30	22-Aug-2025 09:58	☐
HS25081154-08	FB-08202025	Water		20-Aug-2025 13:00	22-Aug-2025 09:58	☐
HS25081154-09	GW-Rinsate	Water		20-Aug-2025 13:30	22-Aug-2025 09:58	☐
HS25081154-10	019-995	Water		20-Aug-2025 16:15	22-Aug-2025 09:58	☐
HS25081154-11	Cottages	Water		20-Aug-2025 16:45	22-Aug-2025 09:58	☐
HS25081154-12	019582	Water		20-Aug-2025 17:00	22-Aug-2025 09:58	☐
HS25081154-13	MW-2-500	Water		21-Aug-2025 08:45	22-Aug-2025 09:58	☐
HS25081154-14	MW-2-200	Water		21-Aug-2025 11:00	22-Aug-2025 09:58	☐
HS25081154-15	019-1055	Water		21-Aug-2025 13:15	22-Aug-2025 09:58	☐
HS25081154-16	FB08212025	Water		21-Aug-2025 14:00	22-Aug-2025 09:58	☐
HS25081154-17	MW-2-700	Water		21-Aug-2025 14:30	22-Aug-2025 09:58	☐
HS25081154-18	GW-DUP	Water		21-Aug-2025 00:00	22-Aug-2025 09:58	☐
HS25081154-19	CG-061125-740	Water	CG-061125-740	21-Aug-2025 00:00	22-Aug-2025 09:58	☐
HS25081154-20	CG-061125-761	Water	CG-061125-761	21-Aug-2025 00:00	22-Aug-2025 09:58	☐
HS25081154-21	CG-061125-764	Water	CG-061125-764	21-Aug-2025 00:00	22-Aug-2025 09:58	☐
HS25081154-22	CG-061125-766	Water	CG-061125-766	21-Aug-2025 00:00	22-Aug-2025 09:58	☐
HS25081154-23	CG-061125-763	Water	CG-061125-763	21-Aug-2025 00:00	22-Aug-2025 09:58	☐
HS25081154-24	CG-061125-735	Water	CG-061125-735	21-Aug-2025 00:00	22-Aug-2025 09:58	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25081154

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

• Login notes:

1 of 2 vials broken for samples CG-061125-761 and CG061125-763.

GC Semivolatiles by Method MA EPH

Batch ID: 232094

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R520585

Sample ID: LCSD-250825

• The RPD between the LCS and LCSD was outside of the control limit.

Batch ID: R520593

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R520501

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R520496

Sample ID: HS25081129-04MSD

• MSD is for an unrelated sample

GCMS Volatiles by Method SW8260

Batch ID: R520465

Sample ID: LCS-250825

• Not enough sample vials are received to analyze MS/MSD. LCS/LCSD are provided to meet QC criteria.

Batch ID: R520456

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25081154

Metals by Method SW6020A

Batch ID: 232198

Sample ID: MW-2-500 (HS25081154-13MS)

- Barium failed on the MS but passed on the MSD and PDS.
- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Potassium, Sodium, Strontium.

Sample ID: MW-2-500 (HS25081154-13PDS)

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Potassium, Sodium, Strontium.

Metals by Method SW7470A

Batch ID: 232092

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E376.1

Batch ID: R520457

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R520500

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R520497

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R520502

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R520450

Sample ID: MW-3-500 (HS25081154-01)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Bromide)

Sample ID: MW-3-700 (HS25081154-04)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Sulfate)

WetChemistry by Method SM4500 S2-F

Batch ID: R520388

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25081154

WetChemistry by Method SM4500 S2-F

WetChemistry by Method M2540C

Batch ID: R520382,R520505

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 19-Aug-2025 10:40

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	**0.0013**		**0.00028**	**0.0010**	**mg/L**	1	26-Aug-2025 00:25
Ethylbenzene	U		0.00033	0.0020	mg/L	1	26-Aug-2025 00:25
m,p-Xylene	U		0.00061	0.0040	mg/L	1	26-Aug-2025 00:25
o-Xylene	U		0.00031	0.0020	mg/L	1	26-Aug-2025 00:25
Toluene	**0.0020**	J	**0.00033**	**0.0020**	**mg/L**	1	26-Aug-2025 00:25
Xylenes, Total	U		0.00092	0.0060	mg/L	1	26-Aug-2025 00:25
Surr: 1,2-Dichloroethane-d4	*104*			*70-126*	*%REC*	*1*	*26-Aug-2025 00:25*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*26-Aug-2025 00:25*
Surr: Dibromofluoromethane	*103*			*77-123*	*%REC*	*1*	*26-Aug-2025 00:25*
Surr: Toluene-d8	*98.5*			*82-127*	*%REC*	*1*	*26-Aug-2025 00:25*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**1.38**		**0.0450**	**0.125**	**mg/L**	25	26-Aug-2025 16:30
Aliphatics >C8 - C10	U		0.0100	0.125	mg/L	25	26-Aug-2025 16:30
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	26-Aug-2025 01:39
Surr: 2,5-Dibromotoluene (Aliphatic)	*103*			*70-130*	*%REC*	*25*	*26-Aug-2025 16:30*
Surr: 2,5-Dibromotoluene (Aromatic)	*96.7*			*70-130*	*%REC*	*1*	*26-Aug-2025 01:39*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 12:59
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 12:59
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 12:59
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 12:59
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 12:59
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	26-Aug-2025 12:59
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 12:59
Surr: 1-Chlorooctadecane	*70.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 12:59*
Surr: 2-Bromonaphthalene	*86.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 12:59*
Surr: 2-Fluorobiphenyl	*85.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 12:59*
Surr: o-Terphenyl	*71.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 12:59*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 19-Aug-2025 10:40

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 12:31
Barium	**0.143**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 12:31
Calcium	**277**		**2.40**	**10.0**	**mg/L**	20	27-Aug-2025 13:42
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:31
Iron	**3.15**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:31
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:31
Magnesium	**36.2**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:31
Manganese	**0.405**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 12:31
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:31
Potassium	**17.1**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 12:31
Sodium	**1,010**		**2.60**	**10.0**	**mg/L**	20	27-Aug-2025 13:42
Strontium	**6.70**		**0.00600**	**0.100**	**mg/L**	20	27-Aug-2025 13:42
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:31
Zinc	**0.00467**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:31
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 14:47
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.06**		**0.500**	**1.00**	**mg/L**	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**3,560**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**127**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 09:37
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 09:37
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.00**	J	**0.920**	**5.00**	**mg/L**	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.00**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.6**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0600	0.200	mg/L	2	25-Aug-2025 11:42
Chloride	**1,700**		**8.00**	**20.0**	**mg/L**	40	25-Aug-2025 14:13
Sulfate	**633**		**8.00**	**20.0**	**mg/L**	40	25-Aug-2025 14:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-081925
Collection Date: 19-Aug-2025 13:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 21:59
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 21:59
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 21:59
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 21:59
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 21:59
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 21:59
Surr: 1,2-Dichloroethane-d4	*101*			*70-126*	*%REC*	*1*	*25-Aug-2025 21:59*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*25-Aug-2025 21:59*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*25-Aug-2025 21:59*
Surr: Toluene-d8	*96.4*			*82-127*	*%REC*	*1*	*25-Aug-2025 21:59*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 02:18
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 02:18
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 02:18
Surr: 2,5-Dibromotoluene (Aliphatic)	*91.6*			*70-130*	*%REC*	*1*	*26-Aug-2025 02:18*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.7*			*70-130*	*%REC*	*1*	*26-Aug-2025 02:18*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:27
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:27
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:27
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:27
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:27
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:27
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:27
Surr: 1-Chlorooctadecane	*75.9*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:27*
Surr: 2-Bromonaphthalene	*94.6*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:27*
Surr: 2-Fluorobiphenyl	*94.0*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:27*
Surr: o-Terphenyl	*77.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:27*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-081925
Collection Date: 19-Aug-2025 13:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 12:33
Barium	U		0.000750	0.00500	mg/L	1	27-Aug-2025 12:33
Calcium	U		0.120	0.500	mg/L	1	27-Aug-2025 12:33
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:33
Iron	U		0.0600	0.200	mg/L	1	27-Aug-2025 12:33
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:33
Magnesium	U		0.0408	0.200	mg/L	1	27-Aug-2025 12:33
Manganese	U		0.00190	0.00500	mg/L	1	27-Aug-2025 12:33
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:33
Potassium	U		0.0869	0.500	mg/L	1	27-Aug-2025 12:33
Sodium	**0.366**	J	**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 12:33
Strontium	**0.00444**	J	**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 12:33
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:33
Zinc	**0.00462**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:33
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 14:48
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 09:42
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 09:42
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**5.50**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.5**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 11:48
Chloride	**0.255**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 11:48
Sulfate	U		0.200	0.500	mg/L	1	25-Aug-2025 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 19-Aug-2025 15:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 00:46
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 00:46
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 00:46
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 00:46
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 00:46
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 00:46
Surr: 1,2-Dichloroethane-d4	*98.4*			*70-126*	*%REC*	*1*	*26-Aug-2025 00:46*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*26-Aug-2025 00:46*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*26-Aug-2025 00:46*
Surr: Toluene-d8	*97.1*			*82-127*	*%REC*	*1*	*26-Aug-2025 00:46*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**0.0121**		**0.00180**	**0.00500**	**mg/L**	1	26-Aug-2025 02:57
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 02:57
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 02:57
Surr: 2,5-Dibromotoluene (Aliphatic)	*91.8*			*70-130*	*%REC*	*1*	*26-Aug-2025 02:57*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.4*			*70-130*	*%REC*	*1*	*26-Aug-2025 02:57*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:56
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:56
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:56
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:56
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:56
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:56
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 13:56
Surr: 1-Chlorooctadecane	*67.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:56*
Surr: 2-Bromonaphthalene	*91.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:56*
Surr: 2-Fluorobiphenyl	*92.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:56*
Surr: o-Terphenyl	*68.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 13:56*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 19-Aug-2025 15:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.00328**		**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 12:35
Barium	**0.222**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 12:35
Calcium	**19.4**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 12:35
Chromium	**0.00228**	J	**0.00173**	**0.00500**	**mg/L**	1	27-Aug-2025 12:35
Iron	**18.6**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:35
Lead	**0.000681**	J	**0.000470**	**0.00200**	**mg/L**	1	27-Aug-2025 12:35
Magnesium	**2.54**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:35
Manganese	**0.0981**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 12:35
Nickel	**0.00625**		**0.00130**	**0.00500**	**mg/L**	1	27-Aug-2025 12:35
Potassium	**62.0**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 12:35
Sodium	**121**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 12:35
Strontium	**0.402**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 12:35
Vanadium	**0.00846**		**0.000600**	**0.00500**	**mg/L**	1	27-Aug-2025 12:35
Zinc	**0.0121**		**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:35
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 14:50
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**2.12**		**0.500**	**1.00**	**mg/L**	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**384**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**272**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 09:47
Alkalinity, Carbonate (As CaCO3)	**74.6**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 09:47
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**2.00**	J	**0.920**	**5.00**	**mg/L**	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**9.34**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.5**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 11:54
Chloride	**22.8**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 11:54
Sulfate	**3.52**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 11:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 20-Aug-2025 08:40

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	26-Aug-2025 01:06
Ethylbenzene	U		0.00033	0.0020	mg/L	1	26-Aug-2025 01:06
m,p-Xylene	U		0.00061	0.0040	mg/L	1	26-Aug-2025 01:06
o-Xylene	U		0.00031	0.0020	mg/L	1	26-Aug-2025 01:06
Toluene	**0.00091**	J	**0.00033**	**0.0020**	**mg/L**	1	26-Aug-2025 01:06
Xylenes, Total	U		0.00092	0.0060	mg/L	1	26-Aug-2025 01:06
Surr: 1,2-Dichloroethane-d4	*103*			*70-126*	*%REC*	*1*	*26-Aug-2025 01:06*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Aug-2025 01:06*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*26-Aug-2025 01:06*
Surr: Toluene-d8	*97.6*			*82-127*	*%REC*	*1*	*26-Aug-2025 01:06*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**0.00906**		**0.00180**	**0.00500**	**mg/L**	1	26-Aug-2025 03:36
Aliphatics >C8 - C10	**0.0116**		**0.000400**	**0.00500**	**mg/L**	1	26-Aug-2025 03:36
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	26-Aug-2025 03:36
Surr: 2,5-Dibromotoluene (Aliphatic)	*100*			*70-130*	*%REC*	*1*	*26-Aug-2025 03:36*
Surr: 2,5-Dibromotoluene (Aromatic)	*97.7*			*70-130*	*%REC*	*1*	*26-Aug-2025 03:36*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 14:25
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 14:25
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 14:25
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 14:25
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 14:25
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	26-Aug-2025 14:25
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 14:25
Surr: 1-Chlorooctadecane	*71.6*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:25*
Surr: 2-Bromonaphthalene	*77.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:25*
Surr: 2-Fluorobiphenyl	*92.0*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:25*
Surr: o-Terphenyl	*70.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:25*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 20-Aug-2025 08:40

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 12:37
Barium	**1.56**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 12:37
Calcium	**92.7**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 12:37
Chromium	**0.00229**	J	**0.00173**	**0.00500**	**mg/L**	1	27-Aug-2025 12:37
Iron	**0.286**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:37
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:37
Magnesium	**11.1**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:37
Manganese	**0.0213**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 12:37
Nickel	**0.00167**	J	**0.00130**	**0.00500**	**mg/L**	1	27-Aug-2025 12:37
Potassium	**34.7**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 12:37
Sodium	**895**		**2.60**	**10.0**	**mg/L**	20	27-Aug-2025 13:44
Strontium	**2.50**		**0.00600**	**0.100**	**mg/L**	20	27-Aug-2025 13:44
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:37
Zinc	**0.0162**		**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:37
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 14:52
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**3,260**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**25.3**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 09:53
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 09:53
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.79**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.7**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**2.04**		**0.0600**	**0.200**	**mg/L**	2	25-Aug-2025 11:59
Chloride	**1,570**		**8.00**	**20.0**	**mg/L**	40	25-Aug-2025 14:19
Sulfate	U		0.400	1.00	mg/L	2	25-Aug-2025 11:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 20-Aug-2025 10:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 01:27
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 01:27
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 01:27
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 01:27
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 01:27
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 01:27
Surr: 1,2-Dichloroethane-d4	*99.7*			*70-126*	*%REC*	*1*	*26-Aug-2025 01:27*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*26-Aug-2025 01:27*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Aug-2025 01:27*
Surr: Toluene-d8	*97.4*			*82-127*	*%REC*	*1*	*26-Aug-2025 01:27*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 04:14
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 04:14
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 04:14
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.1*			*70-130*	*%REC*	*1*	*26-Aug-2025 04:14*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.4*			*70-130*	*%REC*	*1*	*26-Aug-2025 04:14*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 14:54
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 14:54
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 14:54
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 14:54
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 14:54
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 14:54
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 14:54
Surr: 1-Chlorooctadecane	*68.0*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:54*
Surr: 2-Bromonaphthalene	*91.9*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:54*
Surr: 2-Fluorobiphenyl	*93.2*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:54*
Surr: o-Terphenyl	*74.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 14:54*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 20-Aug-2025 10:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 12:39
Barium	**0.204**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 12:39
Calcium	**11.5**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 12:39
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:39
Iron	**0.791**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:39
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:39
Magnesium	**5.28**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:39
Manganese	**0.0313**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 12:39
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:39
Potassium	**8.62**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 12:39
Sodium	**51.8**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 12:39
Strontium	**0.244**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 12:39
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:39
Zinc	**0.00491**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:39
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 14:53
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**140**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**120**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 09:59
Alkalinity, Carbonate (As CaCO3)	**9.40**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 09:59
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.66**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.7**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 12:05
Chloride	**21.9**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:05
Sulfate	U		0.200	0.500	mg/L	1	25-Aug-2025 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 20-Aug-2025 12:15

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 01:48
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 01:48
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 01:48
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 01:48
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 01:48
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 01:48
Surr: 1,2-Dichloroethane-d4	*100*			*70-126*	*%REC*	*1*	*26-Aug-2025 01:48*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*26-Aug-2025 01:48*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Aug-2025 01:48*
Surr: Toluene-d8	*98.8*			*82-127*	*%REC*	*1*	*26-Aug-2025 01:48*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 04:53
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 04:53
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 04:53
Surr: 2,5-Dibromotoluene (Aliphatic)	*93.6*			*70-130*	*%REC*	*1*	*26-Aug-2025 04:53*
Surr: 2,5-Dibromotoluene (Aromatic)	*91.0*			*70-130*	*%REC*	*1*	*26-Aug-2025 04:53*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:20
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:20
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:20
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:20
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:20
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:20
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:20
Surr: 1-Chlorooctadecane	*68.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:20*
Surr: 2-Bromonaphthalene	*97.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:20*
Surr: 2-Fluorobiphenyl	*96.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:20*
Surr: o-Terphenyl	*75.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:20*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 20-Aug-2025 12:15

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.00109**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 12:41
Barium	**0.0605**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 12:41
Calcium	**2.36**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 12:41
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:41
Iron	**0.710**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:41
Lead	**0.000545**	J	**0.000470**	**0.00200**	**mg/L**	1	27-Aug-2025 12:41
Magnesium	**0.378**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:41
Manganese	**0.00703**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 12:41
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:41
Potassium	**2.79**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 12:41
Sodium	**211**		**2.60**	**10.0**	**mg/L**	20	27-Aug-2025 13:46
Strontium	**0.0635**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 12:41
Vanadium	**0.000752**	J	**0.000600**	**0.00500**	**mg/L**	1	27-Aug-2025 12:41
Zinc	**0.00402**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:41
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 14:55
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**424**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**203**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:04
Alkalinity, Carbonate (As CaCO3)	**72.0**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:04
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**9.54**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.5**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 12:11
Chloride	**101**		**0.400**	**1.00**	**mg/L**	2	25-Aug-2025 14:25
Sulfate	**0.381**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 20-Aug-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 02:09
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:09
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 02:09
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 02:09
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:09
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 02:09
Surr: 1,2-Dichloroethane-d4	*100*			*70-126*	*%REC*	*1*	*26-Aug-2025 02:09*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*26-Aug-2025 02:09*
Surr: Dibromofluoromethane	*103*			*77-123*	*%REC*	*1*	*26-Aug-2025 02:09*
Surr: Toluene-d8	*98.6*			*82-127*	*%REC*	*1*	*26-Aug-2025 02:09*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 05:32
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 05:32
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 05:32
Surr: 2,5-Dibromotoluene (Aliphatic)	*104*			*70-130*	*%REC*	*1*	*26-Aug-2025 05:32*
Surr: 2,5-Dibromotoluene (Aromatic)	*101*			*70-130*	*%REC*	*1*	*26-Aug-2025 05:32*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:49
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:49
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:49
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:49
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:49
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:49
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 16:49
Surr: 1-Chlorooctadecane	*74.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:49*
Surr: 2-Bromonaphthalene	*97.0*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:49*
Surr: 2-Fluorobiphenyl	*97.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:49*
Surr: o-Terphenyl	*86.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 16:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 20-Aug-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.00829**		**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 12:43
Barium	**0.275**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 12:43
Calcium	**20.7**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 12:43
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:43
Iron	**0.159**	J	**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:43
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:43
Magnesium	**10.1**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:43
Manganese	**0.0583**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 12:43
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:43
Potassium	**2.13**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 12:43
Sodium	**101**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 12:43
Strontium	**0.264**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 12:43
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:43
Zinc	U		0.00300	0.0100	mg/L	1	27-Aug-2025 12:43
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 14:57
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**284**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**245**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:10
Alkalinity, Carbonate (As CaCO3)	**10.8**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:10
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.46**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.4**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 12:17
Chloride	**36.9**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:17
Sulfate	U		0.200	0.500	mg/L	1	25-Aug-2025 12:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-08202025
Collection Date: 20-Aug-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 21:22
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 21:22
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 21:22
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 21:22
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 21:22
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 21:22
Surr: 1,2-Dichloroethane-d4	*103*			*70-126*	*%REC*	*1*	*25-Aug-2025 21:22*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*25-Aug-2025 21:22*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*25-Aug-2025 21:22*
Surr: Toluene-d8	*96.9*			*82-127*	*%REC*	*1*	*25-Aug-2025 21:22*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 06:11
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 06:11
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 06:11
Surr: 2,5-Dibromotoluene (Aliphatic)	*98.5*			*70-130*	*%REC*	*1*	*26-Aug-2025 06:11*
Surr: 2,5-Dibromotoluene (Aromatic)	*95.7*			*70-130*	*%REC*	*1*	*26-Aug-2025 06:11*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:18
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:18
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:18
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:18
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:18
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:18
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:18
Surr: 1-Chlorooctadecane	*67.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:18*
Surr: 2-Bromonaphthalene	*91.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:18*
Surr: 2-Fluorobiphenyl	*91.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:18*
Surr: o-Terphenyl	*73.0*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:18*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-08202025
Collection Date: 20-Aug-2025 13:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 12:45
Barium	U		0.000750	0.00500	mg/L	1	27-Aug-2025 12:45
Calcium	U		0.120	0.500	mg/L	1	27-Aug-2025 12:45
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:45
Iron	U		0.0600	0.200	mg/L	1	27-Aug-2025 12:45
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:45
Magnesium	U		0.0408	0.200	mg/L	1	27-Aug-2025 12:45
Manganese	U		0.00190	0.00500	mg/L	1	27-Aug-2025 12:45
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:45
Potassium	U		0.0869	0.500	mg/L	1	27-Aug-2025 12:45
Sodium	U		0.130	0.500	mg/L	1	27-Aug-2025 12:45
Strontium	U		0.000300	0.00500	mg/L	1	27-Aug-2025 12:45
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:45
Zinc	U		0.00300	0.0100	mg/L	1	27-Aug-2025 12:45
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	**0.0000490**	J	**0.0000300**	**0.000200**	**mg/L**	1	25-Aug-2025 15:08
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:27
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:27
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**5.25**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.4**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 12:23
Chloride	**0.240**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:23
Sulfate	U		0.200	0.500	mg/L	1	25-Aug-2025 12:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 20-Aug-2025 13:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 02:30
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:30
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 02:30
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 02:30
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:30
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 02:30
Surr: 1,2-Dichloroethane-d4	*98.8*			*70-126*	*%REC*	*1*	*26-Aug-2025 02:30*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*26-Aug-2025 02:30*
Surr: Dibromofluoromethane	*98.7*			*77-123*	*%REC*	*1*	*26-Aug-2025 02:30*
Surr: Toluene-d8	*96.9*			*82-127*	*%REC*	*1*	*26-Aug-2025 02:30*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 06:49
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 06:49
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 06:49
Surr: 2,5-Dibromotoluene (Aliphatic)	*93.2*			*70-130*	*%REC*	*1*	*26-Aug-2025 06:49*
Surr: 2,5-Dibromotoluene (Aromatic)	*90.7*			*70-130*	*%REC*	*1*	*26-Aug-2025 06:49*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:47
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:47
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:47
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:47
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:47
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:47
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 17:47
Surr: 1-Chlorooctadecane	*62.0*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:47*
Surr: 2-Bromonaphthalene	*97.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:47*
Surr: 2-Fluorobiphenyl	*96.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:47*
Surr: o-Terphenyl	*66.8*			*40-140*	*%REC*	*1*	*26-Aug-2025 17:47*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-Rinsate
Collection Date: 20-Aug-2025 13:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 12:47
Barium	**0.00415**	J	**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 12:47
Calcium	**0.194**	J	**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 12:47
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:47
Iron	**0.0781**	J	**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:47
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:47
Magnesium	**0.0466**	J	**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:47
Manganese	U		0.00190	0.00500	mg/L	1	27-Aug-2025 12:47
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:47
Potassium	U		0.0869	0.500	mg/L	1	27-Aug-2025 12:47
Sodium	**0.754**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 12:47
Strontium	**0.00259**	J	**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 12:47
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:47
Zinc	**0.0387**		**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:47
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:09
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.06**		**0.500**	**1.00**	**mg/L**	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:31
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:31
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.00**	J	**0.920**	**5.00**	**mg/L**	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**6.22**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.1**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 12:52
Chloride	**0.480**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:52
Sulfate	**0.314**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 20-Aug-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 02:50
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:50
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 02:50
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 02:50
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:50
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 02:50
Surr: 1,2-Dichloroethane-d4	*99.7*			*70-126*	*%REC*	*1*	*26-Aug-2025 02:50*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Aug-2025 02:50*
Surr: Dibromofluoromethane	*99.6*			*77-123*	*%REC*	*1*	*26-Aug-2025 02:50*
Surr: Toluene-d8	*96.4*			*82-127*	*%REC*	*1*	*26-Aug-2025 02:50*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 08:46
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 08:46
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 08:46
Surr: 2,5-Dibromotoluene (Aliphatic)	*90.9*			*70-130*	*%REC*	*1*	*26-Aug-2025 08:46*
Surr: 2,5-Dibromotoluene (Aromatic)	*88.5*			*70-130*	*%REC*	*1*	*26-Aug-2025 08:46*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:16
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:16
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:16
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:16
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:16
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:16
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:16
Surr: 1-Chlorooctadecane	*71.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:16*
Surr: 2-Bromonaphthalene	*94.2*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:16*
Surr: 2-Fluorobiphenyl	*93.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:16*
Surr: o-Terphenyl	*77.0*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 20-Aug-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.000578**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 13:12
Barium	**0.220**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 13:12
Calcium	**23.3**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 13:12
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:12
Iron	**3.31**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 13:12
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 13:12
Magnesium	**7.47**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 13:12
Manganese	**0.344**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 13:12
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:12
Potassium	**2.55**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 13:12
Sodium	**24.9**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 13:12
Strontium	**0.205**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 13:12
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:12
Zinc	U		0.00300	0.0100	mg/L	1	27-Aug-2025 13:12
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:11
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**192**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**109**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:37
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:37
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.73**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.1**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 12:58
Chloride	**23.6**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:58
Sulfate	**3.26**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 12:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 20-Aug-2025 16:45

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 03:11
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 03:11
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 03:11
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 03:11
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 03:11
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 03:11
Surr: 1,2-Dichloroethane-d4	*99.4*			*70-126*	*%REC*	*1*	*26-Aug-2025 03:11*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*26-Aug-2025 03:11*
Surr: Dibromofluoromethane	*98.4*			*77-123*	*%REC*	*1*	*26-Aug-2025 03:11*
Surr: Toluene-d8	*98.1*			*82-127*	*%REC*	*1*	*26-Aug-2025 03:11*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 09:24
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 09:24
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 09:24
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.8*			*70-130*	*%REC*	*1*	*26-Aug-2025 09:24*
Surr: 2,5-Dibromotoluene (Aromatic)	*90.7*			*70-130*	*%REC*	*1*	*26-Aug-2025 09:24*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:45
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:45
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:45
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:45
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:45
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:45
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 18:45
Surr: 1-Chlorooctadecane	*58.8*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:45*
Surr: 2-Bromonaphthalene	*95.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:45*
Surr: 2-Fluorobiphenyl	*94.8*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:45*
Surr: o-Terphenyl	*68.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 18:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 20-Aug-2025 16:45

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 13:14
Barium	**0.209**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 13:14
Calcium	**15.4**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 13:14
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:14
Iron	**3.27**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 13:14
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 13:14
Magnesium	**4.43**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 13:14
Manganese	**0.210**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 13:14
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:14
Potassium	**2.51**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 13:14
Sodium	**78.2**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 13:14
Strontium	**0.178**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 13:14
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:14
Zinc	**0.0756**		**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 13:14
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:13
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**240**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**136**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:42
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:42
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.07**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.1**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 13:04
Chloride	**52.2**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:04
Sulfate	**0.226**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019582
Collection Date: 20-Aug-2025 17:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 03:32
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 03:32
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 03:32
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 03:32
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 03:32
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 03:32
Surr: 1,2-Dichloroethane-d4	*102*			*70-126*	*%REC*	*1*	*26-Aug-2025 03:32*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*26-Aug-2025 03:32*
Surr: Dibromofluoromethane	*101*			*77-123*	*%REC*	*1*	*26-Aug-2025 03:32*
Surr: Toluene-d8	*98.7*			*82-127*	*%REC*	*1*	*26-Aug-2025 03:32*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 10:03
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 10:03
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 10:03
Surr: 2,5-Dibromotoluene (Aliphatic)	*87.9*			*70-130*	*%REC*	*1*	*26-Aug-2025 10:03*
Surr: 2,5-Dibromotoluene (Aromatic)	*86.0*			*70-130*	*%REC*	*1*	*26-Aug-2025 10:03*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 19:14
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 19:14
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 19:14
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 19:14
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 19:14
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 19:14
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 19:14
Surr: 1-Chlorooctadecane	*61.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 19:14*
Surr: 2-Bromonaphthalene	*73.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 19:14*
Surr: 2-Fluorobiphenyl	*99.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 19:14*
Surr: o-Terphenyl	*74.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 19:14*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019582
Collection Date: 20-Aug-2025 17:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.000744**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 13:16
Barium	**0.234**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 13:16
Calcium	**23.4**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 13:16
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:16
Iron	**3.37**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 13:16
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 13:16
Magnesium	**7.66**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 13:16
Manganese	**0.385**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 13:16
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:16
Potassium	**2.67**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 13:16
Sodium	**26.5**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 13:16
Strontium	**0.214**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 13:16
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:16
Zinc	**0.00565**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 13:16
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:14
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**218**		**3.00**	**10.0**	**mg/L**	1	25-Aug-2025 08:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**104**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:48
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:48
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.81**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.1**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 13:09
Chloride	**22.8**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:09
Sulfate	**3.26**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 21-Aug-2025 08:45

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	26-Aug-2025 03:53
Ethylbenzene	U		0.00033	0.0020	mg/L	1	26-Aug-2025 03:53
m,p-Xylene	**0.00077**	J	**0.00061**	**0.0040**	**mg/L**	1	26-Aug-2025 03:53
o-Xylene	**0.00079**	J	**0.00031**	**0.0020**	**mg/L**	1	26-Aug-2025 03:53
Toluene	**0.00053**	J	**0.00033**	**0.0020**	**mg/L**	1	26-Aug-2025 03:53
Xylenes, Total	**0.0016**	J	**0.00092**	**0.0060**	**mg/L**	1	26-Aug-2025 03:53
Surr: 1,2-Dichloroethane-d4	*102*			*70-126*	*%REC*	*1*	*26-Aug-2025 03:53*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*26-Aug-2025 03:53*
Surr: Dibromofluoromethane	*104*			*77-123*	*%REC*	*1*	*26-Aug-2025 03:53*
Surr: Toluene-d8	*97.8*			*82-127*	*%REC*	*1*	*26-Aug-2025 03:53*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	U		0.00180	0.00500	mg/L	1	26-Aug-2025 19:48
Aliphatics >C8 - C10	U		0.000400	0.00500	mg/L	1	26-Aug-2025 19:48
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	26-Aug-2025 19:48
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*26-Aug-2025 19:48*
Surr: 2,5-Dibromotoluene (Aromatic)	*98.1*			*70-130*	*%REC*	*1*	*26-Aug-2025 19:48*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 11:32
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 11:32
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 11:32
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 11:32
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 11:32
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	26-Aug-2025 11:32
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 11:32
Surr: 1-Chlorooctadecane	*73.2*			*40-140*	*%REC*	*1*	*26-Aug-2025 11:32*
Surr: 2-Bromonaphthalene	*89.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 11:32*
Surr: 2-Fluorobiphenyl	*88.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 11:32*
Surr: o-Terphenyl	*75.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 11:32*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 21-Aug-2025 08:45

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.00117**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 12:09
Barium	**0.113**		**0.00375**	**0.0250**	**mg/L**	5	27-Aug-2025 13:36
Calcium	**8.90**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 12:09
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 12:09
Iron	**1.01**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 12:09
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 12:09
Magnesium	**1.37**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 12:09
Manganese	**0.0483**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 12:09
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 12:09
Potassium	**61.9**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 12:09
Sodium	**77.3**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 12:09
Strontium	**0.598**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 12:09
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 12:09
Zinc	**0.00745**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 12:09
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:16
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**304**		**3.00**	**10.0**	**mg/L**	1	26-Aug-2025 08:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 10:53
Alkalinity, Carbonate (As CaCO3)	**180**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 10:53
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**10.8**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**20.1**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 13:15
Chloride	**38.0**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:15
Sulfate	**1.47**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 21-Aug-2025 11:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 04:14
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 04:14
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 04:14
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 04:14
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 04:14
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 04:14
Surr: 1,2-Dichloroethane-d4	*100*			*70-126*	*%REC*	*1*	*26-Aug-2025 04:14*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Aug-2025 04:14*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*26-Aug-2025 04:14*
Surr: Toluene-d8	*97.1*			*82-127*	*%REC*	*1*	*26-Aug-2025 04:14*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 17:12
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 17:12
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 17:12
Surr: 2,5-Dibromotoluene (Aliphatic)	*96.7*			*70-130*	*%REC*	*1*	*26-Aug-2025 17:12*
Surr: 2,5-Dibromotoluene (Aromatic)	*93.9*			*70-130*	*%REC*	*1*	*26-Aug-2025 17:12*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 20:41
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 20:41
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 20:41
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 20:41
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 20:41
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 20:41
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 20:41
Surr: 1-Chlorooctadecane	*68.2*			*40-140*	*%REC*	*1*	*26-Aug-2025 20:41*
Surr: 2-Bromonaphthalene	*84.2*			*40-140*	*%REC*	*1*	*26-Aug-2025 20:41*
Surr: 2-Fluorobiphenyl	*83.2*			*40-140*	*%REC*	*1*	*26-Aug-2025 20:41*
Surr: o-Terphenyl	*68.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 20:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 21-Aug-2025 11:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.00151**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 13:18
Barium	**0.141**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 13:18
Calcium	**11.0**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 13:18
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:18
Iron	**1.94**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 13:18
Lead	**0.000475**	J	**0.000470**	**0.00200**	**mg/L**	1	27-Aug-2025 13:18
Magnesium	**3.71**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 13:18
Manganese	**0.0330**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 13:18
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:18
Potassium	**4.44**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 13:18
Sodium	**84.9**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 13:18
Strontium	**0.277**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 13:18
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:18
Zinc	**0.0448**		**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 13:18
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:21
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**238**		**3.00**	**10.0**	**mg/L**	1	26-Aug-2025 08:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**176**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 11:04
Alkalinity, Carbonate (As CaCO3)	**14.2**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 11:04
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**8.71**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**21.1**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 13:21
Chloride	**22.2**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:21
Sulfate	**0.266**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 21-Aug-2025 13:15

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 02:50
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:50
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 02:50
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 02:50
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 02:50
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 02:50
Surr: 1,2-Dichloroethane-d4	*104*			*70-126*	*%REC*	*1*	*26-Aug-2025 02:50*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Aug-2025 02:50*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*26-Aug-2025 02:50*
Surr: Toluene-d8	*95.0*			*82-127*	*%REC*	*1*	*26-Aug-2025 02:50*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 17:51
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 17:51
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 17:51
Surr: 2,5-Dibromotoluene (Aliphatic)	*86.2*			*70-130*	*%REC*	*1*	*26-Aug-2025 17:51*
Surr: 2,5-Dibromotoluene (Aromatic)	*83.6*			*70-130*	*%REC*	*1*	*26-Aug-2025 17:51*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:09
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:09
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:09
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:09
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:09
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:09
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:09
Surr: 1-Chlorooctadecane	*74.6*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:09*
Surr: 2-Bromonaphthalene	*89.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:09*
Surr: 2-Fluorobiphenyl	*88.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:09*
Surr: o-Terphenyl	*79.8*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 21-Aug-2025 13:15

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.000778**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 13:20
Barium	**0.223**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 13:20
Calcium	**25.1**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 13:20
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:20
Iron	**0.642**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 13:20
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 13:20
Magnesium	**8.23**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 13:20
Manganese	**0.321**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 13:20
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:20
Potassium	**2.86**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 13:20
Sodium	**31.6**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 13:20
Strontium	**0.229**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 13:20
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:20
Zinc	**0.00501**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 13:20
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:23
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**290**		**3.00**	**10.0**	**mg/L**	1	26-Aug-2025 08:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**116**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 11:13
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 11:13
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**7.65**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**21.3**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 13:27
Chloride	**27.3**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:27
Sulfate	**2.83**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB08212025
Collection Date: 21-Aug-2025 14:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 21:43
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 21:43
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 21:43
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 21:43
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 21:43
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 21:43
Surr: 1,2-Dichloroethane-d4	*104*			*70-126*	*%REC*	*1*	*25-Aug-2025 21:43*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*25-Aug-2025 21:43*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*25-Aug-2025 21:43*
Surr: Toluene-d8	*97.5*			*82-127*	*%REC*	*1*	*25-Aug-2025 21:43*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 18:30
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 18:30
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 18:30
Surr: 2,5-Dibromotoluene (Aliphatic)	*93.1*			*70-130*	*%REC*	*1*	*26-Aug-2025 18:30*
Surr: 2,5-Dibromotoluene (Aromatic)	*90.4*			*70-130*	*%REC*	*1*	*26-Aug-2025 18:30*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:38
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:38
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:38
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:38
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:38
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:38
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 21:38
Surr: 1-Chlorooctadecane	*69.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:38*
Surr: 2-Bromonaphthalene	*93.9*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:38*
Surr: 2-Fluorobiphenyl	*99.1*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:38*
Surr: o-Terphenyl	*74.4*			*40-140*	*%REC*	*1*	*26-Aug-2025 21:38*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB08212025
Collection Date: 21-Aug-2025 14:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	27-Aug-2025 13:22
Barium	U		0.000750	0.00500	mg/L	1	27-Aug-2025 13:22
Calcium	U		0.120	0.500	mg/L	1	27-Aug-2025 13:22
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:22
Iron	U		0.0600	0.200	mg/L	1	27-Aug-2025 13:22
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 13:22
Magnesium	U		0.0408	0.200	mg/L	1	27-Aug-2025 13:22
Manganese	U		0.00190	0.00500	mg/L	1	27-Aug-2025 13:22
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:22
Potassium	U		0.0869	0.500	mg/L	1	27-Aug-2025 13:22
Sodium	U		0.130	0.500	mg/L	1	27-Aug-2025 13:22
Strontium	U		0.000300	0.00500	mg/L	1	27-Aug-2025 13:22
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:22
Zinc	U		0.00300	0.0100	mg/L	1	27-Aug-2025 13:22
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:32
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	26-Aug-2025 08:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 11:17
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 11:17
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**5.35**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**21.2**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 13:33
Chloride	**0.223**	J	**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:33
Sulfate	U		0.200	0.500	mg/L	1	25-Aug-2025 13:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 21-Aug-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-17
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	26-Aug-2025 03:11
Ethylbenzene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 03:11
m,p-Xylene		U	0.00061	0.0040	mg/L	1	26-Aug-2025 03:11
o-Xylene		U	0.00031	0.0020	mg/L	1	26-Aug-2025 03:11
Toluene		U	0.00033	0.0020	mg/L	1	26-Aug-2025 03:11
Xylenes, Total		U	0.00092	0.0060	mg/L	1	26-Aug-2025 03:11
Surr: 1,2-Dichloroethane-d4	*103*			*70-126*	*%REC*	*1*	*26-Aug-2025 03:11*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*26-Aug-2025 03:11*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*26-Aug-2025 03:11*
Surr: Toluene-d8	*97.9*			*82-127*	*%REC*	*1*	*26-Aug-2025 03:11*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	26-Aug-2025 19:09
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	26-Aug-2025 19:09
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	26-Aug-2025 19:09
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.2*			*70-130*	*%REC*	*1*	*26-Aug-2025 19:09*
Surr: 2,5-Dibromotoluene (Aromatic)	*92.3*			*70-130*	*%REC*	*1*	*26-Aug-2025 19:09*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 22:07
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 22:07
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 22:07
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	26-Aug-2025 22:07
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	26-Aug-2025 22:07
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	26-Aug-2025 22:07
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	26-Aug-2025 22:07
Surr: 1-Chlorooctadecane	*68.8*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:07*
Surr: 2-Bromonaphthalene	*94.7*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:07*
Surr: 2-Fluorobiphenyl	*95.9*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:07*
Surr: o-Terphenyl	*71.5*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 21-Aug-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-17
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.00107**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 13:24
Barium	**0.0134**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 13:24
Calcium	**1.26**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 13:24
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:24
Iron	**0.341**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 13:24
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 13:24
Magnesium	**0.0692**	J	**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 13:24
Manganese	**0.00327**	J	**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 13:24
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:24
Potassium	**4.43**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 13:24
Sodium	**196**		**2.60**	**10.0**	**mg/L**	20	27-Aug-2025 13:48
Strontium	**0.0273**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 13:24
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:24
Zinc	**0.00653**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 13:24
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:34
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.06**		**0.500**	**1.00**	**mg/L**	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**484**		**3.00**	**10.0**	**mg/L**	1	26-Aug-2025 08:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	**69.0**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 11:35
Alkalinity, Carbonate (As CaCO3)	**133**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 11:35
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.00**	J	**0.920**	**5.00**	**mg/L**	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**10.2**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**21.2**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	**0.198**		**0.0300**	**0.100**	**mg/L**	1	25-Aug-2025 13:39
Chloride	**140**		**1.00**	**2.50**	**mg/L**	5	26-Aug-2025 09:00
Sulfate	U		0.200	0.500	mg/L	1	25-Aug-2025 13:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	26-Aug-2025 01:49
Ethylbenzene	U		0.00033	0.0020	mg/L	1	26-Aug-2025 01:49
m,p-Xylene	U		0.00061	0.0040	mg/L	1	26-Aug-2025 01:49
o-Xylene	**0.00070**	J	**0.00031**	**0.0020**	**mg/L**	1	26-Aug-2025 01:49
Toluene	**0.00053**	J	**0.00033**	**0.0020**	**mg/L**	1	26-Aug-2025 01:49
Xylenes, Total	U		0.00092	0.0060	mg/L	1	26-Aug-2025 01:49
Surr: 1,2-Dichloroethane-d4	*108*			*70-126*	*%REC*	*1*	*26-Aug-2025 01:49*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*26-Aug-2025 01:49*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*26-Aug-2025 01:49*
Surr: Toluene-d8	*98.3*			*82-127*	*%REC*	*1*	*26-Aug-2025 01:49*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	U		0.00180	0.00500	mg/L	1	26-Aug-2025 23:02
Aliphatics >C8 - C10	U		0.000400	0.00500	mg/L	1	26-Aug-2025 23:02
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	26-Aug-2025 23:02
Surr: 2,5-Dibromotoluene (Aliphatic)	*90.5*			*70-130*	*%REC*	*1*	*26-Aug-2025 23:02*
Surr: 2,5-Dibromotoluene (Aromatic)	*88.5*			*70-130*	*%REC*	*1*	*26-Aug-2025 23:02*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 25-Aug-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 22:36
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 22:36
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 22:36
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	26-Aug-2025 22:36
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	26-Aug-2025 22:36
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	26-Aug-2025 22:36
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	26-Aug-2025 22:36
Surr: 1-Chlorooctadecane	*79.9*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:36*
Surr: 2-Bromonaphthalene	*105*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:36*
Surr: 2-Fluorobiphenyl	*104*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:36*
Surr: o-Terphenyl	*88.3*			*40-140*	*%REC*	*1*	*26-Aug-2025 22:36*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-18
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 27-Aug-2025		Analyst: JC
Arsenic	**0.00118**	J	**0.000510**	**0.00200**	**mg/L**	1	27-Aug-2025 13:26
Barium	**0.104**		**0.000750**	**0.00500**	**mg/L**	1	27-Aug-2025 13:26
Calcium	**8.19**		**0.120**	**0.500**	**mg/L**	1	27-Aug-2025 13:26
Chromium	U		0.00173	0.00500	mg/L	1	27-Aug-2025 13:26
Iron	**1.04**		**0.0600**	**0.200**	**mg/L**	1	27-Aug-2025 13:26
Lead	U		0.000470	0.00200	mg/L	1	27-Aug-2025 13:26
Magnesium	**1.27**		**0.0408**	**0.200**	**mg/L**	1	27-Aug-2025 13:26
Manganese	**0.0449**		**0.00190**	**0.00500**	**mg/L**	1	27-Aug-2025 13:26
Nickel	U		0.00130	0.00500	mg/L	1	27-Aug-2025 13:26
Potassium	**56.2**		**0.0869**	**0.500**	**mg/L**	1	27-Aug-2025 13:26
Sodium	**73.2**		**0.130**	**0.500**	**mg/L**	1	27-Aug-2025 13:26
Strontium	**0.551**		**0.000300**	**0.00500**	**mg/L**	1	27-Aug-2025 13:26
Vanadium	U		0.000600	0.00500	mg/L	1	27-Aug-2025 13:26
Zinc	**0.00373**	J	**0.00300**	**0.0100**	**mg/L**	1	27-Aug-2025 13:26
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 25-Aug-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	25-Aug-2025 15:36
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	25-Aug-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**296**		**3.00**	**10.0**	**mg/L**	1	26-Aug-2025 08:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: DH
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	26-Aug-2025 11:40
Alkalinity, Carbonate (As CaCO3)	**190**		**1.20**	**5.00**	**mg/L**	1	26-Aug-2025 11:40
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	25-Aug-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: CD
pH	**10.8**	H	**0.100**	**1.00**	**pH Units**	1	26-Aug-2025 09:00
Temp Deg C @pH	**21.2**	H	**0**	**0**	**°C**	1	26-Aug-2025 09:00
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	25-Aug-2025 13:44
Chloride	**38.1**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:44
Sulfate	**1.54**		**0.200**	**0.500**	**mg/L**	1	25-Aug-2025 13:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-740
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-19
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 22:03
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 22:03
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 22:03
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 22:03
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 22:03
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 22:03
Surr: 1,2-Dichloroethane-d4	*95.8*			*70-126*	*%REC*	*1*	*25-Aug-2025 22:03*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*25-Aug-2025 22:03*
Surr: Dibromofluoromethane	*103*			*77-123*	*%REC*	*1*	*25-Aug-2025 22:03*
Surr: Toluene-d8	*98.4*			*82-127*	*%REC*	*1*	*25-Aug-2025 22:03*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-761
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 22:24
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 22:24
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 22:24
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 22:24
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 22:24
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 22:24
Surr: 1,2-Dichloroethane-d4	*106*			*70-126*	*%REC*	*1*	*25-Aug-2025 22:24*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*25-Aug-2025 22:24*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*25-Aug-2025 22:24*
Surr: Toluene-d8	*96.5*			*82-127*	*%REC*	*1*	*25-Aug-2025 22:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-764
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-21
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 22:44
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 22:44
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 22:44
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 22:44
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 22:44
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 22:44
Surr: 1,2-Dichloroethane-d4	*104*			*70-126*	*%REC*	*1*	*25-Aug-2025 22:44*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*25-Aug-2025 22:44*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*25-Aug-2025 22:44*
Surr: Toluene-d8	*97.7*			*82-127*	*%REC*	*1*	*25-Aug-2025 22:44*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-766
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-22
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 23:05
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 23:05
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 23:05
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 23:05
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 23:05
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 23:05
Surr: 1,2-Dichloroethane-d4	*96.4*			*70-126*	*%REC*	*1*	*25-Aug-2025 23:05*
Surr: 4-Bromofluorobenzene	*98.4*			*77-113*	*%REC*	*1*	*25-Aug-2025 23:05*
Surr: Dibromofluoromethane	*103*			*77-123*	*%REC*	*1*	*25-Aug-2025 23:05*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*25-Aug-2025 23:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-763
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-23
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 23:25
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 23:25
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 23:25
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 23:25
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 23:25
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 23:25
Surr: 1,2-Dichloroethane-d4	*107*			*70-126*	*%REC*	*1*	*25-Aug-2025 23:25*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*25-Aug-2025 23:25*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*25-Aug-2025 23:25*
Surr: Toluene-d8	*95.3*			*82-127*	*%REC*	*1*	*25-Aug-2025 23:25*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-061125-735
Collection Date: 21-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081154
Lab ID:HS25081154-24
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	25-Aug-2025 23:46
Ethylbenzene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 23:46
m,p-Xylene		U	0.00061	0.0040	mg/L	1	25-Aug-2025 23:46
o-Xylene		U	0.00031	0.0020	mg/L	1	25-Aug-2025 23:46
Toluene		U	0.00033	0.0020	mg/L	1	25-Aug-2025 23:46
Xylenes, Total		U	0.00092	0.0060	mg/L	1	25-Aug-2025 23:46
Surr: 1,2-Dichloroethane-d4	*104*			*70-126*	*%REC*	*1*	*25-Aug-2025 23:46*
Surr: 4-Bromofluorobenzene	*103*			*77-113*	*%REC*	*1*	*25-Aug-2025 23:46*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*25-Aug-2025 23:46*
Surr: Toluene-d8	*98.1*			*82-127*	*%REC*	*1*	*25-Aug-2025 23:46*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

Batch ID: 232092 **Start Date:** 25 Aug 2025 09:30 **End Date:** 25 Aug 2025 09:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25081154-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-18		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 232094 **Start Date:** 25 Aug 2025 13:26 **End Date:** 25 Aug 2025 13:26
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25081154-01	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-02	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-03	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-04	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-05	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-06	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-07	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-08	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-09	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-10	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-11	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-12	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-13	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-14	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-15	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-16	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-17	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25081154-18	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

Batch ID: 232198 **Start Date:** 27 Aug 2025 11:00 **End Date:** 27 Aug 2025 11:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25081154-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081154-18		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 232092 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40		25 Aug 2025 09:30	25 Aug 2025 14:47	1
HS25081154-02	FB-081925	19 Aug 2025 13:30		25 Aug 2025 09:30	25 Aug 2025 14:48	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30		25 Aug 2025 09:30	25 Aug 2025 14:50	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40		25 Aug 2025 09:30	25 Aug 2025 14:52	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30		25 Aug 2025 09:30	25 Aug 2025 14:53	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15		25 Aug 2025 09:30	25 Aug 2025 14:55	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30		25 Aug 2025 09:30	25 Aug 2025 14:57	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00		25 Aug 2025 09:30	25 Aug 2025 15:08	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30		25 Aug 2025 09:30	25 Aug 2025 15:09	1
HS25081154-10	019-995	20 Aug 2025 16:15		25 Aug 2025 09:30	25 Aug 2025 15:11	1
HS25081154-11	Cottages	20 Aug 2025 16:45		25 Aug 2025 09:30	25 Aug 2025 15:13	1
HS25081154-12	019582	20 Aug 2025 17:00		25 Aug 2025 09:30	25 Aug 2025 15:14	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45		25 Aug 2025 09:30	25 Aug 2025 15:16	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00		25 Aug 2025 09:30	25 Aug 2025 15:21	1
HS25081154-15	019-1055	21 Aug 2025 13:15		25 Aug 2025 09:30	25 Aug 2025 15:23	1
HS25081154-16	FB08212025	21 Aug 2025 14:00		25 Aug 2025 09:30	25 Aug 2025 15:32	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30		25 Aug 2025 09:30	25 Aug 2025 15:34	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00		25 Aug 2025 09:30	25 Aug 2025 15:36	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 232094 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40		25 Aug 2025 13:26	26 Aug 2025 12:59	1
HS25081154-01	MW-3-500	19 Aug 2025 10:40		25 Aug 2025 13:26	26 Aug 2025 12:59	1
HS25081154-02	FB-081925	19 Aug 2025 13:30		25 Aug 2025 13:26	26 Aug 2025 13:27	1
HS25081154-02	FB-081925	19 Aug 2025 13:30		25 Aug 2025 13:26	26 Aug 2025 13:27	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30		25 Aug 2025 13:26	26 Aug 2025 13:56	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30		25 Aug 2025 13:26	26 Aug 2025 13:56	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40		25 Aug 2025 13:26	26 Aug 2025 14:25	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40		25 Aug 2025 13:26	26 Aug 2025 14:25	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30		25 Aug 2025 13:26	26 Aug 2025 14:54	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30		25 Aug 2025 13:26	26 Aug 2025 14:54	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15		25 Aug 2025 13:26	26 Aug 2025 16:20	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15		25 Aug 2025 13:26	26 Aug 2025 16:20	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30		25 Aug 2025 13:26	26 Aug 2025 16:49	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30		25 Aug 2025 13:26	26 Aug 2025 16:49	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00		25 Aug 2025 13:26	26 Aug 2025 17:18	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00		25 Aug 2025 13:26	26 Aug 2025 17:18	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30		25 Aug 2025 13:26	26 Aug 2025 17:47	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30		25 Aug 2025 13:26	26 Aug 2025 17:47	1
HS25081154-10	019-995	20 Aug 2025 16:15		25 Aug 2025 13:26	26 Aug 2025 18:16	1
HS25081154-10	019-995	20 Aug 2025 16:15		25 Aug 2025 13:26	26 Aug 2025 18:16	1
HS25081154-11	Cottages	20 Aug 2025 16:45		25 Aug 2025 13:26	26 Aug 2025 18:45	1
HS25081154-11	Cottages	20 Aug 2025 16:45		25 Aug 2025 13:26	26 Aug 2025 18:45	1
HS25081154-12	019582	20 Aug 2025 17:00		25 Aug 2025 13:26	26 Aug 2025 19:14	1
HS25081154-12	019582	20 Aug 2025 17:00		25 Aug 2025 13:26	26 Aug 2025 19:14	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45		25 Aug 2025 13:26	26 Aug 2025 11:32	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45		25 Aug 2025 13:26	26 Aug 2025 11:32	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00		25 Aug 2025 13:26	26 Aug 2025 20:41	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00		25 Aug 2025 13:26	26 Aug 2025 20:41	1
HS25081154-15	019-1055	21 Aug 2025 13:15		25 Aug 2025 13:26	26 Aug 2025 21:09	1
HS25081154-15	019-1055	21 Aug 2025 13:15		25 Aug 2025 13:26	26 Aug 2025 21:09	1
HS25081154-16	FB08212025	21 Aug 2025 14:00		25 Aug 2025 13:26	26 Aug 2025 21:38	1
HS25081154-16	FB08212025	21 Aug 2025 14:00		25 Aug 2025 13:26	26 Aug 2025 21:38	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30		25 Aug 2025 13:26	26 Aug 2025 22:07	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30		25 Aug 2025 13:26	26 Aug 2025 22:07	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00		25 Aug 2025 13:26	26 Aug 2025 22:36	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00		25 Aug 2025 13:26	26 Aug 2025 22:36	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 232198 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40		27 Aug 2025 11:00	27 Aug 2025 13:42	20
HS25081154-01	MW-3-500	19 Aug 2025 10:40		27 Aug 2025 11:00	27 Aug 2025 12:31	1
HS25081154-02	FB-081925	19 Aug 2025 13:30		27 Aug 2025 11:00	27 Aug 2025 12:33	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30		27 Aug 2025 11:00	27 Aug 2025 12:35	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40		27 Aug 2025 11:00	27 Aug 2025 13:44	20
HS25081154-04	MW-3-700	20 Aug 2025 08:40		27 Aug 2025 11:00	27 Aug 2025 12:37	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30		27 Aug 2025 11:00	27 Aug 2025 12:39	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15		27 Aug 2025 11:00	27 Aug 2025 13:46	20
HS25081154-06	MW-1-700	20 Aug 2025 12:15		27 Aug 2025 11:00	27 Aug 2025 12:41	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30		27 Aug 2025 11:00	27 Aug 2025 12:43	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00		27 Aug 2025 11:00	27 Aug 2025 12:45	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30		27 Aug 2025 11:00	27 Aug 2025 12:47	1
HS25081154-10	019-995	20 Aug 2025 16:15		27 Aug 2025 11:00	27 Aug 2025 13:12	1
HS25081154-11	Cottages	20 Aug 2025 16:45		27 Aug 2025 11:00	27 Aug 2025 13:14	1
HS25081154-12	019582	20 Aug 2025 17:00		27 Aug 2025 11:00	27 Aug 2025 13:16	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45		27 Aug 2025 11:00	27 Aug 2025 13:36	5
HS25081154-13	MW-2-500	21 Aug 2025 08:45		27 Aug 2025 11:00	27 Aug 2025 12:09	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00		27 Aug 2025 11:00	27 Aug 2025 13:18	1
HS25081154-15	019-1055	21 Aug 2025 13:15		27 Aug 2025 11:00	27 Aug 2025 13:20	1
HS25081154-16	FB08212025	21 Aug 2025 14:00		27 Aug 2025 11:00	27 Aug 2025 13:22	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30		27 Aug 2025 11:00	27 Aug 2025 13:48	20
HS25081154-17	MW-2-700	21 Aug 2025 14:30		27 Aug 2025 11:00	27 Aug 2025 13:24	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00		27 Aug 2025 11:00	27 Aug 2025 13:26	1
Batch ID: R520382 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			25 Aug 2025 08:30	1
HS25081154-02	FB-081925	19 Aug 2025 13:30			25 Aug 2025 08:30	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			25 Aug 2025 08:30	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			25 Aug 2025 08:30	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			25 Aug 2025 08:30	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			25 Aug 2025 08:30	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			25 Aug 2025 08:30	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			25 Aug 2025 08:30	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			25 Aug 2025 08:30	1
HS25081154-10	019-995	20 Aug 2025 16:15			25 Aug 2025 08:30	1
HS25081154-11	Cottages	20 Aug 2025 16:45			25 Aug 2025 08:30	1
HS25081154-12	019582	20 Aug 2025 17:00			25 Aug 2025 08:30	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R520388 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			25 Aug 2025 11:00	1
HS25081154-02	FB-081925	19 Aug 2025 13:30			25 Aug 2025 11:00	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			25 Aug 2025 11:00	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			25 Aug 2025 11:00	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			25 Aug 2025 11:00	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			25 Aug 2025 11:00	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			25 Aug 2025 11:00	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			25 Aug 2025 11:00	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			25 Aug 2025 11:00	1
HS25081154-10	019-995	20 Aug 2025 16:15			25 Aug 2025 11:00	1
HS25081154-11	Cottages	20 Aug 2025 16:45			25 Aug 2025 11:00	1
HS25081154-12	019582	20 Aug 2025 17:00			25 Aug 2025 11:00	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45			25 Aug 2025 11:00	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			25 Aug 2025 11:00	1
HS25081154-15	019-1055	21 Aug 2025 13:15			25 Aug 2025 11:00	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			25 Aug 2025 11:00	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			25 Aug 2025 11:00	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			25 Aug 2025 11:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R520450 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			25 Aug 2025 14:13	40
HS25081154-01	MW-3-500	19 Aug 2025 10:40			25 Aug 2025 11:42	2
HS25081154-02	FB-081925	19 Aug 2025 13:30			25 Aug 2025 11:48	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			25 Aug 2025 11:54	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			25 Aug 2025 14:19	40
HS25081154-04	MW-3-700	20 Aug 2025 08:40			25 Aug 2025 11:59	2
HS25081154-05	MW-1-500	20 Aug 2025 10:30			25 Aug 2025 12:05	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			25 Aug 2025 14:25	2
HS25081154-06	MW-1-700	20 Aug 2025 12:15			25 Aug 2025 12:11	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			25 Aug 2025 12:17	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			25 Aug 2025 12:23	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			25 Aug 2025 12:52	1
HS25081154-10	019-995	20 Aug 2025 16:15			25 Aug 2025 12:58	1
HS25081154-11	Cottages	20 Aug 2025 16:45			25 Aug 2025 13:04	1
HS25081154-12	019582	20 Aug 2025 17:00			25 Aug 2025 13:09	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45			25 Aug 2025 13:15	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			25 Aug 2025 13:21	1
HS25081154-15	019-1055	21 Aug 2025 13:15			25 Aug 2025 13:27	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			25 Aug 2025 13:33	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			25 Aug 2025 13:39	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			25 Aug 2025 13:44	1
Batch ID: R520456 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			26 Aug 2025 00:25	1
HS25081154-02	FB-081925	19 Aug 2025 13:30			25 Aug 2025 21:59	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			26 Aug 2025 00:46	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			26 Aug 2025 01:06	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			26 Aug 2025 01:27	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			26 Aug 2025 01:48	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			26 Aug 2025 02:09	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			26 Aug 2025 02:30	1
HS25081154-10	019-995	20 Aug 2025 16:15			26 Aug 2025 02:50	1
HS25081154-11	Cottages	20 Aug 2025 16:45			26 Aug 2025 03:11	1
HS25081154-12	019582	20 Aug 2025 17:00			26 Aug 2025 03:32	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45			26 Aug 2025 03:53	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			26 Aug 2025 04:14	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R520457 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			25 Aug 2025 11:00	1
HS25081154-02	FB-081925	19 Aug 2025 13:30			25 Aug 2025 11:00	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			25 Aug 2025 11:00	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			25 Aug 2025 11:00	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			25 Aug 2025 11:00	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			25 Aug 2025 11:00	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			25 Aug 2025 11:00	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			25 Aug 2025 11:00	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			25 Aug 2025 11:00	1
HS25081154-10	019-995	20 Aug 2025 16:15			25 Aug 2025 11:00	1
HS25081154-11	Cottages	20 Aug 2025 16:45			25 Aug 2025 11:00	1
HS25081154-12	019582	20 Aug 2025 17:00			25 Aug 2025 11:00	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45			25 Aug 2025 11:00	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			25 Aug 2025 11:00	1
HS25081154-15	019-1055	21 Aug 2025 13:15			25 Aug 2025 11:00	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			25 Aug 2025 11:00	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			25 Aug 2025 11:00	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			25 Aug 2025 11:00	1
Batch ID: R520465 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25081154-08	FB-08202025	20 Aug 2025 13:00			25 Aug 2025 21:22	1
HS25081154-15	019-1055	21 Aug 2025 13:15			26 Aug 2025 02:50	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			25 Aug 2025 21:43	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			26 Aug 2025 03:11	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			26 Aug 2025 01:49	1
HS25081154-19	CG-061125-740	21 Aug 2025 00:00			25 Aug 2025 22:03	1
HS25081154-20	CG-061125-761	21 Aug 2025 00:00			25 Aug 2025 22:24	1
HS25081154-21	CG-061125-764	21 Aug 2025 00:00			25 Aug 2025 22:44	1
HS25081154-22	CG-061125-766	21 Aug 2025 00:00			25 Aug 2025 23:05	1
HS25081154-23	CG-061125-763	21 Aug 2025 00:00			25 Aug 2025 23:25	1
HS25081154-24	CG-061125-735	21 Aug 2025 00:00			25 Aug 2025 23:46	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R520496 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25081154-02	FB-081925	19 Aug 2025 13:30			26 Aug 2025 02:18	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			26 Aug 2025 02:57	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			26 Aug 2025 03:36	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			26 Aug 2025 04:14	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			26 Aug 2025 04:53	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			26 Aug 2025 05:32	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			26 Aug 2025 06:11	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			26 Aug 2025 06:49	1
HS25081154-10	019-995	20 Aug 2025 16:15			26 Aug 2025 08:46	1
HS25081154-11	Cottages	20 Aug 2025 16:45			26 Aug 2025 09:24	1
HS25081154-12	019582	20 Aug 2025 17:00			26 Aug 2025 10:03	1
Batch ID: R520497 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			26 Aug 2025 09:37	1
HS25081154-02	FB-081925	19 Aug 2025 13:30			26 Aug 2025 09:42	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			26 Aug 2025 09:47	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			26 Aug 2025 09:53	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			26 Aug 2025 09:59	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			26 Aug 2025 10:04	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			26 Aug 2025 10:10	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			26 Aug 2025 10:27	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			26 Aug 2025 10:31	1
HS25081154-10	019-995	20 Aug 2025 16:15			26 Aug 2025 10:37	1
HS25081154-11	Cottages	20 Aug 2025 16:45			26 Aug 2025 10:42	1
HS25081154-12	019582	20 Aug 2025 17:00			26 Aug 2025 10:48	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45			26 Aug 2025 10:53	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			26 Aug 2025 11:04	1
HS25081154-15	019-1055	21 Aug 2025 13:15			26 Aug 2025 11:13	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			26 Aug 2025 11:17	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			26 Aug 2025 11:35	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			26 Aug 2025 11:40	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R520500 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			26 Aug 2025 09:00	1
HS25081154-02	FB-081925	19 Aug 2025 13:30			26 Aug 2025 09:00	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			26 Aug 2025 09:00	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			26 Aug 2025 09:00	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			26 Aug 2025 09:00	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			26 Aug 2025 09:00	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			26 Aug 2025 09:00	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			26 Aug 2025 09:00	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			26 Aug 2025 09:00	1
HS25081154-10	019-995	20 Aug 2025 16:15			26 Aug 2025 09:00	1
HS25081154-11	Cottages	20 Aug 2025 16:45			26 Aug 2025 09:00	1
HS25081154-12	019582	20 Aug 2025 17:00			26 Aug 2025 09:00	1
HS25081154-13	MW-2-500	21 Aug 2025 08:45			26 Aug 2025 09:00	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			26 Aug 2025 09:00	1
HS25081154-15	019-1055	21 Aug 2025 13:15			26 Aug 2025 09:00	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			26 Aug 2025 09:00	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			26 Aug 2025 09:00	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			26 Aug 2025 09:00	1
Batch ID: R520501 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			26 Aug 2025 01:39	1
HS25081154-02	FB-081925	19 Aug 2025 13:30			26 Aug 2025 02:18	1
HS25081154-03	MW-3-200	19 Aug 2025 15:30			26 Aug 2025 02:57	1
HS25081154-04	MW-3-700	20 Aug 2025 08:40			26 Aug 2025 03:36	1
HS25081154-05	MW-1-500	20 Aug 2025 10:30			26 Aug 2025 04:14	1
HS25081154-06	MW-1-700	20 Aug 2025 12:15			26 Aug 2025 04:53	1
HS25081154-07	MW-1-200	20 Aug 2025 14:30			26 Aug 2025 05:32	1
HS25081154-08	FB-08202025	20 Aug 2025 13:00			26 Aug 2025 06:11	1
HS25081154-09	GW-Rinsate	20 Aug 2025 13:30			26 Aug 2025 06:49	1
HS25081154-10	019-995	20 Aug 2025 16:15			26 Aug 2025 08:46	1
HS25081154-11	Cottages	20 Aug 2025 16:45			26 Aug 2025 09:24	1
HS25081154-12	019582	20 Aug 2025 17:00			26 Aug 2025 10:03	1
Batch ID: R520502 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25081154-17	MW-2-700	21 Aug 2025 14:30			26 Aug 2025 09:00	5

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R520505 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25081154-13	MW-2-500	21 Aug 2025 08:45			26 Aug 2025 08:00	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			26 Aug 2025 08:00	1
HS25081154-15	019-1055	21 Aug 2025 13:15			26 Aug 2025 08:00	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			26 Aug 2025 08:00	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			26 Aug 2025 08:00	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			26 Aug 2025 08:00	1
Batch ID: R520585 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25081154-01	MW-3-500	19 Aug 2025 10:40			26 Aug 2025 16:30	25
HS25081154-13	MW-2-500	21 Aug 2025 08:45			26 Aug 2025 19:48	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			26 Aug 2025 17:12	1
HS25081154-15	019-1055	21 Aug 2025 13:15			26 Aug 2025 17:51	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			26 Aug 2025 18:30	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			26 Aug 2025 19:09	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			26 Aug 2025 23:02	1
Batch ID: R520593 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25081154-13	MW-2-500	21 Aug 2025 08:45			26 Aug 2025 19:48	1
HS25081154-14	MW-2-200	21 Aug 2025 11:00			26 Aug 2025 17:12	1
HS25081154-15	019-1055	21 Aug 2025 13:15			26 Aug 2025 17:51	1
HS25081154-16	FB08212025	21 Aug 2025 14:00			26 Aug 2025 18:30	1
HS25081154-17	MW-2-700	21 Aug 2025 14:30			26 Aug 2025 19:09	1
HS25081154-18	GW-DUP	21 Aug 2025 00:00			26 Aug 2025 23:02	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232094 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-232094** Units: **mg/L** Analysis Date: **26-Aug-2025 10:34**
Client ID: Run ID: **FID23_520570** SeqNo: **9005525** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02887*	*0*	*0.04*	*0*	*72.2*	*40 - 140*				

MBLK Sample ID: **MBLK-232094** Units: **mg/L** Analysis Date: **26-Aug-2025 10:34**
Client ID: Run ID: **FID-22_520576** SeqNo: **9005630** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03889*	*0*	*0.04*	*0*	*97.2*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03857*	*0*	*0.04*	*0*	*96.4*	*40 - 140*				
Surr: o-Terphenyl	*0.03183*	*0*	*0.04*	*0*	*79.6*	*40 - 140*				

LCS Sample ID: **LCS-232094** Units: **mg/L** Analysis Date: **26-Aug-2025 11:03**
Client ID: Run ID: **FID23_520570** SeqNo: **9005526** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04508	0.100	0.05	0	90.2	40 - 140				J
Aliphatics >C12 - C16	0.09336	0.100	0.1	0	93.4	40 - 140				J
Aliphatics >C16 - C35	0.3808	0.100	0.4	0	95.2	40 - 140				
Surr: 1-Chlorooctadecane	*0.0262*	*0*	*0.04*	*0*	*65.5*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232094 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-232094** Units: **mg/L** Analysis Date: **26-Aug-2025 11:03**
Client ID: Run ID: **FID-22_520576** SeqNo: **9005631** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04657	0.100	0.05	0	93.1	40 - 140				J
Aromatics >C12 - C16	0.1734	0.100	0.2	0	86.7	40 - 140				
Aromatics >C16 - C21	0.1408	0.100	0.15	0	93.8	40 - 140				
Aromatics >C21 - C35	0.4396	0.100	0.45	0	97.7	40 - 140				
Surr: 2-Bromonaphthalene	*0.03944*	*0*	*0.04*	*0*	*98.6*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03861*	*0*	*0.04*	*0*	*96.5*	*40 - 140*				
Surr: o-Terphenyl	*0.02908*	*0*	*0.04*	*0*	*72.7*	*40 - 140*				

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **26-Aug-2025 12:01**
Client ID: **MW-2-500** Run ID: **FID23_520570** SeqNo: **9005528** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04656	0.100	0.05	0	93.1	40 - 140				J
Aliphatics >C12 - C16	0.09622	0.100	0.1	0	96.2	40 - 140				J
Aliphatics >C16 - C35	0.3854	0.100	0.4	0	96.4	40 - 140				
Surr: 1-Chlorooctadecane	*0.02736*	*0*	*0.04*	*0*	*68.4*	*40 - 140*				

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **26-Aug-2025 12:01**
Client ID: **MW-2-500** Run ID: **FID-22_520576** SeqNo: **9005633** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04616	0.100	0.05	0	92.3	40 - 140				J
Aromatics >C12 - C16	0.1651	0.100	0.2	0	82.6	40 - 140				
Aromatics >C16 - C21	0.1341	0.100	0.15	0	89.4	40 - 140				
Aromatics >C21 - C35	0.4229	0.100	0.45	0	94.0	40 - 140				
Surr: 2-Bromonaphthalene	*0.03589*	*0*	*0.04*	*0*	*89.7*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03692*	*0*	*0.04*	*0*	*92.3*	*40 - 140*				
Surr: o-Terphenyl	*0.02831*	*0*	*0.04*	*0*	*70.8*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232094 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **26-Aug-2025 12:30**
Client ID: **MW-2-500** Run ID: **FID23_520570** SeqNo: **9005529** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.0499	0.100	0.05	0	99.8	40 - 140	0.04656	0	50	J
Aliphatics >C12 - C16	0.1065	0.100	0.1	0	107	40 - 140	0.09622	10.2	50	
Aliphatics >C16 - C35	0.3874	0.100	0.4	0	96.9	40 - 140	0.3854	0.515	50	
Surr: 1-Chlorooctadecane	*0.02707*	*0*	*0.04*	*0*	*67.7*	*40 - 140*	*0.02736*	*1.05*	*50*	

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **26-Aug-2025 12:30**
Client ID: **MW-2-500** Run ID: **FID-22_520576** SeqNo: **9005634** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05249	0.100	0.05	0	105	40 - 140	0.04616	0	50	J
Aromatics >C12 - C16	0.183	0.100	0.2	0	91.5	40 - 140	0.1651	10.3	50	
Aromatics >C16 - C21	0.1471	0.100	0.15	0	98.1	40 - 140	0.1341	9.26	50	
Aromatics >C21 - C35	0.4504	0.100	0.45	0	100	40 - 140	0.4229	6.3	50	
Surr: 2-Bromonaphthalene	*0.0332*	*0*	*0.04*	*0*	*83.0*	*40 - 140*	*0.03589*	*7.78*	*50*	
Surr: 2-Fluorobiphenyl	*0.03991*	*0*	*0.04*	*0*	*99.8*	*40 - 140*	*0.03692*	*7.78*	*50*	
Surr: o-Terphenyl	*0.02969*	*0*	*0.04*	*0*	*74.2*	*40 - 140*	*0.02831*	*4.75*	*50*	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520496 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 18:34**
Client ID: Run ID: **FID-14_520496** SeqNo: **9003850** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2322*	*0.0100*	*0.25*	*0*	*92.9*	*70 - 130*				

LCS Sample ID: **LCS-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 17:16**
Client ID: Run ID: **FID-14_520496** SeqNo: **9003848** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02342	0.00500	0.025	0	93.7	70 - 130				
Aliphatics >C8 - C10	0.02072	0.00500	0.025	0	82.9	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.235*	*0.0100*	*0.25*	*0*	*94.0*	*70 - 130*				

LCSD Sample ID: **LCSD-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 17:55**
Client ID: Run ID: **FID-14_520496** SeqNo: **9003849** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02302	0.00500	0.025	0	92.1	70 - 130	0.02342	1.76	25	
Aliphatics >C8 - C10	0.02021	0.00500	0.025	0	80.8	70 - 130	0.02072	2.49	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.248*	*0.0100*	*0.25*	*0*	*99.2*	*70 - 130*	*0.235*	*5.38*	*25*	

MS Sample ID: **HS25081129-04MS** Units: **mg/L** Analysis Date: **25-Aug-2025 22:26**
Client ID: Run ID: **FID-14_520496** SeqNo: **9003856** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02235	0.00500	0.025	0	89.4	70 - 130				
Aliphatics >C8 - C10	0.02035	0.00500	0.025	0	81.4	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.242*	*0.0100*	*0.25*	*0*	*96.8*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520496 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MSD Sample ID: **HS25081129-04MSD** Units: **mg/L** Analysis Date: **25-Aug-2025 23:05**
Client ID: Run ID: **FID-14_520496** SeqNo: **9003857** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02388	0.00500	0.025	0	95.5	70 - 130	0.02235	6.6	25	
Aliphatics >C8 - C10	0.029	0.00500	0.025	0	116	70 - 130	0.02035	35.1	25	R
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2624*	*0.0100*	*0.25*	*0*	*105*	*70 - 130*	*0.242*	*8.08*	*25*	

The following samples were analyzed in this batch: HS25081154-02 HS25081154-03 HS25081154-04 HS25081154-05 HS25081154-06 HS25081154-07 HS25081154-08 HS25081154-09 HS25081154-10 HS25081154-11 HS25081154-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520501 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 18:34**
Client ID: Run ID: **FID-15_520501** SeqNo: **9003962** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2251*	*0.0100*	*0.25*	*0*	*90.1*	*70 - 130*				

LCS Sample ID: **LCS-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 17:16**
Client ID: Run ID: **FID-15_520501** SeqNo: **9003960** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08689	0.0200	0.1	0	86.9	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2272*	*0.0100*	*0.25*	*0*	*90.9*	*70 - 130*				

LCSD Sample ID: **LCSD-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 17:55**
Client ID: Run ID: **FID-15_520501** SeqNo: **9003961** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08314	0.0200	0.1	0	83.1	70 - 130	0.08689	4.41	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2405*	*0.0100*	*0.25*	*0*	*96.2*	*70 - 130*	*0.2272*	*5.71*	*25*	

MS Sample ID: **HS25081129-04MS** Units: **mg/L** Analysis Date: **25-Aug-2025 22:26**
Client ID: Run ID: **FID-15_520501** SeqNo: **9003968** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08215	0.0200	0.1	0	82.2	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2357*	*0.0100*	*0.25*	*0*	*94.3*	*70 - 130*				

MSD Sample ID: **HS25081129-04MSD** Units: **mg/L** Analysis Date: **25-Aug-2025 23:05**
Client ID: Run ID: **FID-15_520501** SeqNo: **9003969** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07737	0.0200	0.1	0	77.4	70 - 130	0.08215	5.99	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2557*	*0.0100*	*0.25*	*0*	*102*	*70 - 130*	*0.2357*	*8.13*	*25*	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520585 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250825** Units: **mg/L** Analysis Date: **26-Aug-2025 15:13**
Client ID: Run ID: **FID-14_520585** SeqNo: **9005806** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2229*	*0.0100*	*0.25*	*0*	*89.2*	*70 - 130*				

LCS Sample ID: **LCS-250825** Units: **mg/L** Analysis Date: **26-Aug-2025 13:55**
Client ID: Run ID: **FID-14_520585** SeqNo: **9005804** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.01967	0.00500	0.025	0	78.7	70 - 130				
Aliphatics >C8 - C10	0.02838	0.00500	0.025	0	114	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2481*	*0.0100*	*0.25*	*0*	*99.2*	*70 - 130*				

LCSD Sample ID: **LCSD-250825** Units: **mg/L** Analysis Date: **26-Aug-2025 14:34**
Client ID: Run ID: **FID-14_520585** SeqNo: **9005805** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.0279	0.00500	0.025	0	112	70 - 130	0.01967	34.6	25	R
Aliphatics >C8 - C10	0.0219	0.00500	0.025	0	87.6	70 - 130	0.02838	25.8	25	R
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2491*	*0.0100*	*0.25*	*0*	*99.7*	*70 - 130*	*0.2481*	*0.42*	*25*	

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **26-Aug-2025 20:26**
Client ID: **MW-2-500** Run ID: **FID-14_520585** SeqNo: **9005813** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02508	0.00500	0.025	0	100	70 - 130				
Aliphatics >C8 - C10	0.01904	0.00500	0.025	0	76.2	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2191*	*0.0100*	*0.25*	*0*	*87.6*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520585 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **26-Aug-2025 21:05**
Client ID: **MW-2-500** Run ID: **FID-14_520585** SeqNo: **9005814** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02983	0.00500	0.025	0	119	70 - 130	0.02508	17.3	25	
Aliphatics >C8 - C10	0.01922	0.00500	0.025	0	76.9	70 - 130	0.01904	0.925	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2385*	*0.0100*	*0.25*	*0*	*95.4*	*70 - 130*	*0.2191*	*8.49*	*25*	

The following samples were analyzed in this batch: HS25081154-01 HS25081154-13 HS25081154-14 HS25081154-15 HS25081154-16 HS25081154-17 HS25081154-18

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520593 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250825** Units: **mg/L** Analysis Date: **26-Aug-2025 15:13**
Client ID: Run ID: **FID-15_520593** SeqNo: **9005967** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2165*	*0.0100*	*0.25*	*0*	*86.6*	*70 - 130*				

LCS Sample ID: **LCS-250825** Units: **mg/L** Analysis Date: **26-Aug-2025 13:55**
Client ID: Run ID: **FID-15_520593** SeqNo: **9005965** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07992	0.0200	0.1	0	79.9	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2404*	*0.0100*	*0.25*	*0*	*96.2*	*70 - 130*				

LCSD Sample ID: **LCSD-250825** Units: **mg/L** Analysis Date: **26-Aug-2025 14:34**
Client ID: Run ID: **FID-15_520593** SeqNo: **9005966** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08128	0.0200	0.1	0	81.3	70 - 130	0.07992	1.68	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2418*	*0.0100*	*0.25*	*0*	*96.7*	*70 - 130*	*0.2404*	*0.567*	*25*	

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **26-Aug-2025 20:26**
Client ID: **MW-2-500** Run ID: **FID-15_520593** SeqNo: **9005974** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0733	0.0200	0.1	0	73.3	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2129*	*0.0100*	*0.25*	*0*	*85.1*	*70 - 130*				

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **26-Aug-2025 21:05**
Client ID: **MW-2-500** Run ID: **FID-15_520593** SeqNo: **9005975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07738	0.0200	0.1	0	77.4	70 - 130	0.0733	5.42	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2317*	*0.0100*	*0.25*	*0*	*92.7*	*70 - 130*	*0.2129*	*8.48*	*25*	

The following samples were analyzed in this batch: HS25081154-13 HS25081154-14 HS25081154-15 HS25081154-16 HS25081154-17 HS25081154-18

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232092 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-232092** Units: **mg/L** Analysis Date: **25-Aug-2025 14:41**
Client ID: Run ID: **HG05_520427** SeqNo: **9001981** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-232092** Units: **mg/L** Analysis Date: **25-Aug-2025 14:43**
Client ID: Run ID: **HG05_520427** SeqNo: **9001982** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00489	0.000200	0.005	0	97.8	80 - 120				

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **25-Aug-2025 15:18**
Client ID: **MW-2-500** Run ID: **HG05_520427** SeqNo: **9001999** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00504	0.000200	0.005	-0.000024	101	75 - 125				

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **25-Aug-2025 15:19**
Client ID: **MW-2-500** Run ID: **HG05_520427** SeqNo: **9002000** PrepDate: **25-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00531	0.000200	0.005	-0.000024	107	75 - 125	0.00504	5.22	20	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232198 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-232198** Units: **mg/L** Analysis Date: **27-Aug-2025 11:55**
Client ID: Run ID: **ICPMS06_520591** SeqNo: **9006103** PrepDate: **27-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00500								
Calcium	U	0.500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00500								
Potassium	U	0.500								
Sodium	U	0.500								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.0100								

LCS Sample ID: **LCS-232198** Units: **mg/L** Analysis Date: **27-Aug-2025 11:57**
Client ID: Run ID: **ICPMS06_520591** SeqNo: **9006104** PrepDate: **27-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04464	0.00200	0.05	0	89.3	80 - 120				
Barium	0.04525	0.00500	0.05	0	90.5	80 - 120				
Calcium	4.722	0.500	5	0	94.4	80 - 120				
Chromium	0.04501	0.00500	0.05	0	90.0	80 - 120				
Iron	4.372	0.200	5	0	87.4	80 - 120				
Lead	0.04342	0.00200	0.05	0	86.8	80 - 120				
Magnesium	4.642	0.200	5	0	92.8	80 - 120				
Manganese	0.04446	0.00500	0.05	0	88.9	80 - 120				
Nickel	0.04392	0.00500	0.05	0	87.8	80 - 120				
Potassium	4.811	0.500	5	0	96.2	80 - 120				
Sodium	4.74	0.500	5	0	94.8	80 - 120				
Strontium	0.08994	0.00500	0.1	0	89.9	80 - 120				
Vanadium	0.04511	0.00500	0.05	0	90.2	80 - 120				
Zinc	0.04716	0.0100	0.05	0	94.3	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232198 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **27-Aug-2025 12:11**
Client ID: **MW-2-500** Run ID: **ICPMS06_520591** SeqNo: **9006121** PrepDate: **27-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04785	0.00200	0.05	0.001168	93.4	80 - 120				
Barium	0.1465	0.00500	0.05	0.1128	67.4	80 - 120				S
Calcium	12.95	0.500	5	8.902	80.9	80 - 120				
Chromium	0.0457	0.00500	0.05	0.000162	91.1	80 - 120				
Iron	5.4	0.200	5	1.009	87.8	80 - 120				
Lead	0.04529	0.00200	0.05	0.000048	90.5	80 - 120				
Magnesium	6.054	0.200	5	1.372	93.6	80 - 120				
Manganese	0.08962	0.00500	0.05	0.04825	82.7	80 - 120				
Nickel	0.04404	0.00500	0.05	0.000622	86.8	80 - 120				
Potassium	60.81	0.500	5	61.89	-21.7	80 - 120				SO
Sodium	76.25	0.500	5	77.27	-20.5	80 - 120				SO
Strontium	0.6224	0.00500	0.1	0.5981	24.2	80 - 120				SO
Vanadium	0.04735	0.00500	0.05	0.000134	94.4	80 - 120				
Zinc	0.05395	0.0100	0.05	0.007449	93.0	80 - 120				

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **27-Aug-2025 12:13**
Client ID: **MW-2-500** Run ID: **ICPMS06_520591** SeqNo: **9006122** PrepDate: **27-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04841	0.00200	0.05	0.001168	94.5	80 - 120	0.04785	1.16	20	
Barium	0.1531	0.00500	0.05	0.1128	80.5	80 - 120	0.1465	4.37	20	
Calcium	13.29	0.500	5	8.902	87.7	80 - 120	12.95	2.59	20	
Chromium	0.04666	0.00500	0.05	0.000162	93.0	80 - 120	0.0457	2.07	20	
Iron	5.569	0.200	5	1.009	91.2	80 - 120	5.4	3.08	20	
Lead	0.04548	0.00200	0.05	0.000048	90.9	80 - 120	0.04529	0.43	20	
Magnesium	6.241	0.200	5	1.372	97.4	80 - 120	6.054	3.05	20	
Manganese	0.09145	0.00500	0.05	0.04825	86.4	80 - 120	0.08962	2.03	20	
Nickel	0.0451	0.00500	0.05	0.000622	88.9	80 - 120	0.04404	2.36	20	
Potassium	62.44	0.500	5	61.89	10.9	80 - 120	60.81	2.65	20	SO
Sodium	76.95	0.500	5	77.27	-6.47	80 - 120	76.25	0.915	20	SO
Strontium	0.6316	0.00500	0.1	0.5981	33.5	80 - 120	0.6224	1.48	20	SO
Vanadium	0.04774	0.00500	0.05	0.000134	95.2	80 - 120	0.04735	0.812	20	
Zinc	0.05399	0.0100	0.05	0.007449	93.1	80 - 120	0.05395	0.0723	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232198 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25081154-13PDS** Units: **mg/L** Analysis Date: **27-Aug-2025 12:15**
Client ID: **MW-2-500** Run ID: **ICPMS06_520591** SeqNo: **9006123** PrepDate: **27-Aug-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09078	0.00200	0.1	0.001168	89.6	75 - 125				
Calcium	16.79	0.500	10	8.902	78.9	75 - 125				
Chromium	0.0882	0.00500	0.1	0.000162	88.0	75 - 125				
Iron	9.376	0.200	10	1.009	83.7	75 - 125				
Lead	0.08799	0.00200	0.1	0.000048	87.9	75 - 125				
Magnesium	10.48	0.200	10	1.372	91.1	75 - 125				
Manganese	0.1258	0.00500	0.1	0.04825	77.6	75 - 125				
Nickel	0.08362	0.00500	0.1	0.000622	83.0	75 - 125				
Potassium	61.59	0.500	10	61.89	-3.09	75 - 125				SO
Sodium	75.29	0.500	10	77.27	-19.8	75 - 125				SO
Strontium	0.6137	0.00500	0.1	0.5981	15.6	75 - 125				SO
Vanadium	0.09077	0.00500	0.1	0.000134	90.6	75 - 125				
Zinc	0.09495	0.0100	0.1	0.007449	87.5	75 - 125				

PDS Sample ID: **HS25081154-13PDS** Units: **mg/L** Analysis Date: **27-Aug-2025 13:40**
Client ID: **MW-2-500** Run ID: **ICPMS06_520591** SeqNo: **9006356** PrepDate: **27-Aug-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.6478	0.0250	0.5	0.1135	107	75 - 125				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: 232198 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

SD Sample ID: **HS25081154-13SD** Units: **mg/L** Analysis Date: **27-Aug-2025 12:05**
Client ID: **MW-2-500** Run ID: **ICPMS06_520591** SeqNo: **9006118** PrepDate: **27-Aug-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.001168	0	10	
Calcium	8.839	2.50					8.902	0.706	10	
Chromium	U	0.0250					0.000162	0	10	
Iron	1.083	1.00					1.009	7.37	10	
Lead	U	0.0100					0.000048	0	10	
Magnesium	1.499	1.00					1.372	9.31	10	
Manganese	0.05111	0.0250					0.04825	5.92	10	
Nickel	U	0.0250					0.000622	0	10	
Potassium	61.74	2.50					61.89	0.253	10	
Sodium	80.04	2.50					77.27	3.58	10	
Strontium	0.6216	0.0250					0.5981	3.93	10	
Vanadium	U	0.0250					0.000134	0	10	
Zinc	U	0.0500					0.007449	0	10	

SD Sample ID: **HS25081154-13SD** Units: **mg/L** Analysis Date: **27-Aug-2025 13:38**
Client ID: **MW-2-500** Run ID: **ICPMS06_520591** SeqNo: **9006355** PrepDate: **27-Aug-2025** DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Barium	0.1102	0.125					0.1135	0	10	J

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520456 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 21:17**
Client ID: Run ID: **VOA4_520456** SeqNo: **9002766** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.050*	*0.0010*	*0.05*	*0*	*101*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.053*	*0.0010*	*0.05*	*0*	*106*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*99.0*	*81 - 120*				

LCS Sample ID: **LCS-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 20:15**
Client ID: Run ID: **VOA4_520456** SeqNo: **9002764** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	99.2	74 - 120				
Ethylbenzene	0.019	0.0020	0.02	0	97.0	77 - 117				
m,p-Xylene	0.039	0.0040	0.04	0	97.5	77 - 122				
o-Xylene	0.019	0.0020	0.02	0	95.7	75 - 119				
Toluene	0.020	0.0020	0.02	0	97.7	77 - 118				
Xylenes, Total	0.058	0.0060	0.06	0	96.9	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.051*	*0.0010*	*0.05*	*0*	*102*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*99.6*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520456 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 20:35**
Client ID: Run ID: **VOA4_520456** SeqNo: **9002765** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	94.8	74 - 120	0.01983	4.46	20	
Ethylbenzene	0.019	0.0020	0.02	0	92.9	77 - 117	0.01941	4.37	20	
m,p-Xylene	0.037	0.0040	0.04	0	93.1	77 - 122	0.03902	4.69	20	
o-Xylene	0.019	0.0020	0.02	0	92.9	75 - 119	0.01914	2.97	20	
Toluene	0.018	0.0020	0.02	0	92.3	77 - 118	0.01953	5.7	20	
Xylenes, Total	0.056	0.0060	0.06	0	93.0	75 - 122	0.05816	4.12	20	
Surr: 1,2-Dichloroethane-d4	*0.052*	*0.0010*	*0.05*	*0*	*103*	*70 - 123*	*0.05089*	*1.51*	*20*	
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*102*	*77 - 113*	*0.05054*	*0.716*	*20*	
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*102*	*73 - 126*	*0.04981*	*2.31*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100*	*81 - 120*	*0.05016*	*0.141*	*20*	

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **26-Aug-2025 04:35**
Client ID: **MW-2-500** Run ID: **VOA4_520456** SeqNo: **9002782** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.018	0.0010	0.02	0	91.7	70 - 127				
Ethylbenzene	0.018	0.0020	0.02	0	87.5	70 - 124				
m,p-Xylene	0.036	0.0040	0.04	0.0007730	89.2	70 - 130				
o-Xylene	0.018	0.0020	0.02	0.0007900	88.3	70 - 124				
Toluene	0.018	0.0020	0.02	0.0005340	88.9	70 - 123				
Xylenes, Total	0.055	0.0060	0.06	0.001563	88.9	70 - 130				
Surr: 1,2-Dichloroethane-d4	*0.052*	*0.0010*	*0.05*	*0*	*104*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*102*	*77 - 113*				
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*101*	*77 - 123*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.2*	*82 - 127*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520456 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **26-Aug-2025 04:55**
Client ID: **MW-2-500** Run ID: **VOA4_520456** SeqNo: **9002783** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.017	0.0010	0.02	0	85.8	70 - 127	0.01833	6.65	20	
Ethylbenzene	0.016	0.0020	0.02	0	82.2	70 - 124	0.01750	6.27	20	
m,p-Xylene	0.034	0.0040	0.04	0.0007730	81.9	70 - 130	0.03646	8.35	20	
o-Xylene	0.017	0.0020	0.02	0.0007900	81.8	70 - 124	0.01846	7.37	20	
Toluene	0.017	0.0020	0.02	0.0005340	83.6	70 - 123	0.01831	5.95	20	
Xylenes, Total	0.051	0.0060	0.06	0.001563	81.9	70 - 130	0.05492	8.02	20	
Surr: 1,2-Dichloroethane-d4	*0.052*	*0.0010*	*0.05*	*0*	*104*	*70 - 126*	*0.05209*	*0.025*	*20*	
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*103*	*77 - 113*	*0.05080*	*1.48*	*20*	
Surr: Dibromofluoromethane	*0.050*	*0.0010*	*0.05*	*0*	*101*	*77 - 123*	*0.05069*	*0.544*	*20*	
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*98.3*	*82 - 127*	*0.04960*	*0.903*	*20*	

The following samples were analyzed in this batch: HS25081154-01 HS25081154-02 HS25081154-03 HS25081154-04 HS25081154-05 HS25081154-06 HS25081154-07 HS25081154-09 HS25081154-10 HS25081154-11 HS25081154-12 HS25081154-13 HS25081154-14

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520465 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 21:02**
Client ID: Run ID: **VOA7_520465** SeqNo: **9003166** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.052*	*0.0010*	*0.05*	*0*	*104*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*103*	*77 - 113*				
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*108*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*				

LCS Sample ID: **LCS-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 20:00**
Client ID: Run ID: **VOA7_520465** SeqNo: **9003164** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	101	74 - 120				
Ethylbenzene	0.018	0.0020	0.02	0	91.8	77 - 117				
m,p-Xylene	0.039	0.0040	0.04	0	97.0	77 - 122				
o-Xylene	0.019	0.0020	0.02	0	96.8	75 - 119				
Toluene	0.019	0.0020	0.02	0	92.6	77 - 118				
Xylenes, Total	0.058	0.0060	0.06	0	96.9	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.052*	*0.0010*	*0.05*	*0*	*105*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*102*	*77 - 113*				
Surr: Dibromofluoromethane	*0.053*	*0.0010*	*0.05*	*0*	*106*	*73 - 126*				
Surr: Toluene-d8	*0.048*	*0.0010*	*0.05*	*0*	*95.0*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520465 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250825** Units: **mg/L** Analysis Date: **25-Aug-2025 20:21**
Client ID: Run ID: **VOA7_520465** SeqNo: **9003165** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	93.3	74 - 120	0.02018	7.8	20	
Ethylbenzene	0.018	0.0020	0.02	0	89.9	77 - 117	0.01837	2.15	20	
m,p-Xylene	0.038	0.0040	0.04	0	94.3	77 - 122	0.03878	2.76	20	
o-Xylene	0.019	0.0020	0.02	0	96.0	75 - 119	0.01935	0.747	20	
Toluene	0.018	0.0020	0.02	0	91.6	77 - 118	0.01851	0.983	20	
Xylenes, Total	0.057	0.0060	0.06	0	94.9	75 - 122	0.05813	2.08	20	
Surr: 1,2-Dichloroethane-d4	*0.048*	*0.0010*	*0.05*	*0*	*96.9*	*70 - 123*	*0.05226*	*7.56*	*20*	
Surr: 4-Bromofluorobenzene	*0.047*	*0.0010*	*0.05*	*0*	*94.7*	*77 - 113*	*0.05076*	*6.99*	*20*	
Surr: Dibromofluoromethane	*0.051*	*0.0010*	*0.05*	*0*	*102*	*73 - 126*	*0.05320*	*4.59*	*20*	
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*	*0.04752*	*6.75*	*20*	

The following samples were analyzed in this batch:

HS25081154-08	HS25081154-15	HS25081154-16	HS25081154-17
HS25081154-18	HS25081154-19	HS25081154-20	HS25081154-21
HS25081154-22	HS25081154-23	HS25081154-24	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520382 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-08252025** Units: **mg/L** Analysis Date: **25-Aug-2025 08:30**
Client ID: Run ID: **Balance1_520382** SeqNo: **9001173** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-08252025** Units: **mg/L** Analysis Date: **25-Aug-2025 08:30**
Client ID: Run ID: **Balance1_520382** SeqNo: **9001172** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1024	10.0	1000	0	102	85 - 115				

DUP Sample ID: **HS25081154-04DUP** Units: **mg/L** Analysis Date: **25-Aug-2025 08:30**
Client ID: **MW-3-700** Run ID: **Balance1_520382** SeqNo: **9001163** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	3320	10.0					3260	1.82	20	

DUP Sample ID: **HS25081108-01DUP** Units: **mg/L** Analysis Date: **25-Aug-2025 08:30**
Client ID: Run ID: **Balance1_520382** SeqNo: **9001152** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	5960	10.0					5900	1.01	20	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520388 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R520388** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_520388** SeqNo: **9001348** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R520388** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_520388** SeqNo: **9001347** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	23	5.00	25	0	92.0	85 - 115				

LCSD Sample ID: **LCSD-R520388** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_520388** SeqNo: **9001346** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.8	5.00	25	0	91.2	85 - 115	23	0.873	20	

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_520388** SeqNo: **9001350** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.6	5.00	25	0	90.4	80 - 120				

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_520388** SeqNo: **9001349** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.8	5.00	25	0	91.2	80 - 120	22.6	0.881	20	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520450 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **25-Aug-2025 11:24**
Client ID: Run ID: **ICS-Integrion_520450** SeqNo: **9002502** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **25-Aug-2025 11:36**
Client ID: Run ID: **ICS-Integrion_520450** SeqNo: **9002503** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.635	0.100	4	0	90.9	80 - 120				
Chloride	19.7	0.500	20	0	98.5	80 - 120				
Sulfate	19.26	0.500	20	0	96.3	80 - 120				

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **25-Aug-2025 14:31**
Client ID: **MW-2-500** Run ID: **ICS-Integrion_520450** SeqNo: **9002529** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.644	0.100	2	0	82.2	80 - 120				
Chloride	46.47	0.500	10	38.01	84.6	80 - 120				
Sulfate	10.53	0.500	10	1.472	90.6	80 - 120				

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **25-Aug-2025 14:37**
Client ID: **MW-2-500** Run ID: **ICS-Integrion_520450** SeqNo: **9002530** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.661	0.100	2	0	83.0	80 - 120	1.644	1.04	20	
Chloride	46.45	0.500	10	38.01	84.5	80 - 120	46.47	0.0366	20	
Sulfate	10.55	0.500	10	1.472	90.8	80 - 120	10.53	0.157	20	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520457 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R520457** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_520457** SeqNo: **9002890** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R520457** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_520457** SeqNo: **9002889** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.44	1.00	26.56	0	92.0	80 - 120				

LCSD Sample ID: **LCSD-R520457** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: Run ID: **WetChem_HS_520457** SeqNo: **9002888** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.22	1.00	26.56	0	91.2	80 - 120	24.44	0.873	20	

MS Sample ID: **HS25081154-13MS** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_520457** SeqNo: **9002803** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.01	1.00	26.56	0	90.4	80 - 120				

MSD Sample ID: **HS25081154-13MSD** Units: **mg/L** Analysis Date: **25-Aug-2025 11:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_520457** SeqNo: **9002802** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.22	1.00	26.56	0	91.2	80 - 120	24.01	0.881	20	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520497 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-08.26.2025** Units: **mg/L** Analysis Date: **26-Aug-2025 09:20**
Client ID: Run ID: **Skalar 03_520497** SeqNo: **9003901** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-08.26.2025** Units: **mg/L** Analysis Date: **26-Aug-2025 09:26**
Client ID: Run ID: **Skalar 03_520497** SeqNo: **9003902** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	895.2	5.00	1000	0	89.5	85 - 115				

LCSD Sample ID: **LCSD-08.26.2025** Units: **mg/L** Analysis Date: **26-Aug-2025 09:32**
Client ID: Run ID: **Skalar 03_520497** SeqNo: **9003903** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	900.4	5.00	1000	0	90.0	85 - 115	895.2	0.579	20	

DUP Sample ID: **HS25081154-13DUP** Units: **mg/L** Analysis Date: **26-Aug-2025 10:57**
Client ID: **MW-2-500** Run ID: **Skalar 03_520497** SeqNo: **9003886** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Carbonate (As CaCO3)	178.6	5.00					180	0.781	20	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: **R520500 (0)** **Instrument:** **WetChem_HS** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25081154-13DUP** Units: **pH Units** Analysis Date: **26-Aug-2025 09:00**
Client ID: **MW-2-500** Run ID: **WetChem_HS_520500** SeqNo: **9003988** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	10.8	1.00					10.83	0.277	10	
Temp Deg C @pH	21.2	0					20.1	5.33	10	

The following samples were analyzed in this batch:

HS25081154-01	HS25081154-02	HS25081154-03	HS25081154-04
HS25081154-05	HS25081154-06	HS25081154-07	HS25081154-08
HS25081154-09	HS25081154-10	HS25081154-11	HS25081154-12
HS25081154-13	HS25081154-14	HS25081154-15	HS25081154-16
HS25081154-17	HS25081154-18		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520502 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **26-Aug-2025 08:42**
Client ID: Run ID: **ICS-Integrion_520502** SeqNo: **9004022** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **26-Aug-2025 08:54**
Client ID: Run ID: **ICS-Integrion_520502** SeqNo: **9004023** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.76	0.500	20	0	98.8	80 - 120				

MS Sample ID: **HS25081154-17MS** Units: **mg/L** Analysis Date: **26-Aug-2025 09:05**
Client ID: **MW-2-700** Run ID: **ICS-Integrion_520502** SeqNo: **9004025** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	189.3	2.50	50	139.5	99.6	80 - 120				

MSD Sample ID: **HS25081154-17MSD** Units: **mg/L** Analysis Date: **26-Aug-2025 09:11**
Client ID: **MW-2-700** Run ID: **ICS-Integrion_520502** SeqNo: **9004026** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	189.5	2.50	50	139.5	100	80 - 120	189.3	0.119	20	

The following samples were analyzed in this batch: HS25081154-17

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081154

QC BATCH REPORT

Batch ID: R520505 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-08262025** Units: **mg/L** Analysis Date: **26-Aug-2025 08:00**
Client ID: Run ID: **Balance1_520505** SeqNo: **9004074** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-08262025** Units: **mg/L** Analysis Date: **26-Aug-2025 08:00**
Client ID: Run ID: **Balance1_520505** SeqNo: **9004073** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1006	10.0	1000	0	101	85 - 115				

DUP Sample ID: **HS25081154-13DUP** Units: **mg/L** Analysis Date: **26-Aug-2025 08:00**
Client ID: **MW-2-500** Run ID: **Balance1_520505** SeqNo: **9004054** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	324	10.0					304	6.37	20	

DUP Sample ID: **HS25081056-05DUP** Units: **mg/L** Analysis Date: **26-Aug-2025 08:00**
Client ID: Run ID: **Balance1_520505** SeqNo: **9004052** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	15480	10.0					15660	1.16	20	

The following samples were analyzed in this batch: HS25081154-13 HS25081154-14 HS25081154-15 HS25081154-16 HS25081154-17 HS25081154-18

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25081154**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oklahoma	2023-140	31-Aug-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	T104704231 TX-C24-00130	30-Apr-2026

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25081154 **Date/Time Received:** **22-Aug-2025 09:58**

Client Name: ERMSW-HOU **Received by:** **Edgar Zheku**

Completed By:	/S/ Edgar Zheku	22-Aug-2025 20:07	**Reviewed by:**	/S/ Beverly Mustafa	25-Aug-2025 12:04
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	3 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:344919, 344921, 344920
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☐	No ☑	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	0.5UC/0.5C, 1.0UC/1.0C, 0.7UC/0.7C, 1.4UC/1.4C, 1.1UC/1.1C, 1.8UC/1.8C	IR 34
Cooler(s)/Kit(s):	49821, 54003, 49473, 50129, 54124, 49494	
Date/Time sample(s) sent to storage:	08/22/2025 20:07	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: 1 of 2 vials broken for samples CG-061125-761 and CG061125-763.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

COC ID: 344919

H325061154

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0754036	Project Name	Sulphur Dome	A	8260 TL_W (Low Level VOC Aqueous)
Work Order		Project Number		B	SUP As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Se,Zn,Ni,V
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt	C	NO3_W(Aqueous)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D	GA DRO_W_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	300.0_anions_W (SO4,Br) / pH
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	PEI_WC_350 (and Hold)
Phone	(281) 600-1090	Phone	(281) 600-1090	H	H2S_W (HOS)
Fax	(281) 600-1091	Fax	(281) 600-1091	I	SUB PD_4500S F (Sulfide)
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERIAmAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-3-500	8/19/25	1040	W	1,2,4,8	11	X	X	X	X	X	X	X	X	X	X	
2	FB-081925		1330	W													
3	MW-3-200		1530	W													
4	MW-3-100	8/20/25	0940														
5	MW-1-500		1030														
6	MW-1-700		1215														
7	MW-1-200		1430														
8	FB-082025		1700														
9	GW-rinsate		1330														
10	019-998		1615														

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Taylar Brown		[X] STD 10 WK Days [ ] 5 Days [ ] 3 Days [ ] 2 Days [ ] 1 Day	

Relinquished by:	Date:	Time:	Received by:	Notes: FRM Sulphur Dome
Elaine Capps	08/22/25	09:58		
Relinquished by:	Date:	Time:	Received by (Laboratory): 8/22/25 09:58	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
	IR#4
491821	0.5
574003	1.0
494473	0.7
501129	1.4
541211	1.1
494424	1.8

QC Package: (Check One Box Below)
[X] Level II Standard [ ] Level III Standard [ ] Level IV Standard [ ] EDD

IR#4 Cupes

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

COC ID: 344921

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0747180	Project Name	Sulphur Dome	A	PCW_LL_VW (Low Level VOA's (8260)) BTEX)
Work Order		Project Number		B	ICPMS,Na,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,P,V
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C	HG_W (Mercury)
Send Report To	Paul Hinton	Invoice Attn	Accounts Payable	D	MA EPH_LV_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	8056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston TX 77079	City/State/Zip	Houston TX 77079	G	ALK_W (CO3,HCO3 (carb, bicarb))
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SUM D_W (F (Fluoride)
e-Mail Address	paul.hinton@erm.com	e-Mail Address	AccountsPayable@erm.com	J	TDS_W (240) (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Cottages	8/20/25	1645	W	1,2,4,8	11	X	X	X	X	X	X	X	X	X	X	
2	019581	8/20/25	1700	W	1,2,4,8	11											
3	Duplicate MW-2-500	08/21/25	0845														
4	MW-2-200		1100														
5	019-1055		1315														
6	FB082125		1400														
7	MW-2-700		1430														
8	MS - MW-2-500		0845														
9	MSD - MW-2-500		0845														
10	GW-Dup		9900														

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☒ Standard ☐ Rush ☐ 2 Day ☐ 3 Day

Results Due Date:

Relinquished by: Zedic Cayes	Date: 8/22/25	Time: 09:58	Received by:	Notes: ERM Sulphur Dome	
Relinquished by:	Date:	Time:	Received by (Laboratory): 8/27/25 09:58	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 3 of 3

COC ID: 344920

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0794035	Project Name	Sulphur Dome	A	8260_LL_W (Low Level VOC (8260) BTEX)
Work Order		Project Number		B	ICPMS_As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
Company Name	Environmental Resources Mgmt	Bill To Company	Environmental Resources Mgmt.	C	HG_W (Mercury)
Send Report To	Kent Hines	Invoice Attn	Accounts Payable	D	MA EPH_W_L3 (MA EPH)
Address	City Centre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	9056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	ALK_W (Carb, Bicarb)
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	COLIFD_4*10D (Coliform)
e-Mail Address	kent.hines@erm.com	e-Mail Address	ERMUSAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CG-061125-740			W	1	2	X										
2	CG-061125-761																
3	CG-061125-764																
4	CG-061125-766																
5	~~CG-061125-764~~																
6	CG-061125-763																
7	CG-061125-735																
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box) [X] Standard [ ] Next Day [ ] Two Day [ ] Three Day [ ] Other

Results Due Date:

Relinquished by: Taylar Brown — Date: 8/27/25 — Time: 09:58 — Received by:

Relinquished by: — Date: — Time: — Received by (Laboratory): 8/27/25 09:58

Logged by (Laboratory): — Date: — Time: — Checked by (Laboratory):

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
[X] Standard [ ] Level 4 (Full Data Package) [ ] Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 04, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25081491**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 5 sample(s) on Aug 29, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch
Project Manager

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25081491

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25081491-01	PPG-4 (2445')	Water		28-Aug-2025 09:11	29-Aug-2025 11:00	☐
HS25081491-02	PPG-4 (2615')	Water		28-Aug-2025 10:23	29-Aug-2025 11:00	☐
HS25081491-03	PPG-4 (2980')	Water		28-Aug-2025 11:17	29-Aug-2025 11:00	☐
HS25081491-04	019-1603	Water		28-Aug-2025 12:30	29-Aug-2025 11:00	☐
HS25081491-05	CG-0812225-002	Water	CG-0812225-002	28-Aug-2025 00:00	29-Aug-2025 11:00	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25081491

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GC Semivolatiles by Method MA EPH

Batch ID: 232437

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R521017,R521019

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R521032

Sample ID: PPG-4 (2445') (HS25081491-01)

• Target analytes not associated with surrogates failing outside control limits.

Batch ID: R521054

Sample ID: LCS-250903

• Not enough sample vials are received to perform MS/MSD. LCS and LCSD are provided to meet QC requirements.

Sample ID: PPG-4 (2980') (HS25081491-03)

• Lowest possible dilution due to sample matrix and/or high concentration of target/non-target analyte(s).

Metals by Method SW7470A

Batch ID: 232461

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25081491

Metals by Method SW6020A

Batch ID: 232406

Sample ID: HS25081494-01MS

• MS and MSD are for an unrelated sample

Sample ID: HS25081494-01PDS

• PDS is for an unrelated sample

Sample ID: PPG-4 (2445') (HS25081491-01)

• The reporting limit(s) is/are elevated due to dilution for high concentrations of non-target analytes.

Sample ID: PPG-4 (2615') (HS25081491-02)

• The reporting limit(s) is/are elevated due to dilution for high concentrations of non-target analytes.

Sample ID: PPG-4 (2980') (HS25081491-03)

• The reporting limit(s) is/are elevated due to dilution for high concentrations of non-target analytes.

WetChemistry by Method SM4500 S2-F

Batch ID: R520935

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E376.1

Batch ID: R520936

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R520981

Sample ID: HS25081472-01MS

• MS and MSD are for an unrelated sample (Bromide)

Sample ID: PPG-4 (2445') (HS25081491-01)

• The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Bromide)

Sample ID: PPG-4 (2615') (HS25081491-02)

• The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Bromide)

Sample ID: PPG-4 (2980') (HS25081491-03)

• The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Bromide)

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25081491

WetChemistry by Method SM4500H+ B

Batch ID: R520910

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R520909

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R520902

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-4 (2445')
Collection Date: 28-Aug-2025 09:11

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene	**0.13**		**0.00028**	**0.0010**	**mg/L**	1	03-Sep-2025 00:30
Ethylbenzene	**0.0020**	J	**0.00033**	**0.0020**	**mg/L**	1	03-Sep-2025 00:30
m,p-Xylene	**0.0038**	J	**0.00061**	**0.0040**	**mg/L**	1	03-Sep-2025 00:30
o-Xylene	**0.0037**		**0.00031**	**0.0020**	**mg/L**	1	03-Sep-2025 00:30
Toluene	**0.042**		**0.00033**	**0.0020**	**mg/L**	1	03-Sep-2025 00:30
Xylenes, Total	**0.0075**		**0.00092**	**0.0060**	**mg/L**	1	03-Sep-2025 00:30
Surr: 1,2-Dichloroethane-d4	*139*	*S*		*70-126*	*%REC*	*1*	*03-Sep-2025 00:30*
Surr: 4-Bromofluorobenzene	*109*			*77-113*	*%REC*	*1*	*03-Sep-2025 00:30*
Surr: Dibromofluoromethane	*126*	*S*		*77-123*	*%REC*	*1*	*03-Sep-2025 00:30*
Surr: Toluene-d8	*95.1*			*82-127*	*%REC*	*1*	*03-Sep-2025 00:30*
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 02-Sep-2025		Analyst: JC
Arsenic	U		0.0255	0.100	mg/L	50	03-Sep-2025 13:51
Barium	**0.150**	J	**0.0375**	**0.250**	**mg/L**	50	03-Sep-2025 13:51
Calcium	**746**		**6.00**	**25.0**	**mg/L**	50	03-Sep-2025 13:51
Chromium	U		0.0865	0.250	mg/L	50	03-Sep-2025 13:51
Iron	U		3.00	10.0	mg/L	50	03-Sep-2025 13:51
Lead	U		0.0235	0.100	mg/L	50	03-Sep-2025 13:51
Magnesium	**5.01**	J	**2.04**	**10.0**	**mg/L**	50	03-Sep-2025 13:51
Manganese	**0.225**	J	**0.0950**	**0.250**	**mg/L**	50	03-Sep-2025 13:51
Nickel	**0.585**		**0.0650**	**0.250**	**mg/L**	50	03-Sep-2025 13:51
Potassium	**5.95**	J	**4.34**	**25.0**	**mg/L**	50	03-Sep-2025 13:51
Sodium	**48,600**		**650**	**2500**	**mg/L**	5000	03-Sep-2025 14:11
Strontium	**4.59**		**0.0150**	**0.250**	**mg/L**	50	03-Sep-2025 13:51
Vanadium	U		0.0300	0.250	mg/L	50	03-Sep-2025 13:51
Zinc	**1.83**		**0.150**	**0.500**	**mg/L**	50	03-Sep-2025 13:51
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 03-Sep-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	03-Sep-2025 11:58
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	02-Sep-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**297,000**		**3.00**	**10.0**	**mg/L**	1	30-Aug-2025 09:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: SG
Alkalinity, Bicarbonate (As CaCO3)	**130**		**1.20**	**5.00**	**mg/L**	1	30-Aug-2025 15:10
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	30-Aug-2025 15:10
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	02-Sep-2025 11:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-4 (2445')
Collection Date: 28-Aug-2025 09:11

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: SG
pH	**6.64**	H	**0.100**	**1.00**	**pH Units**	1	30-Aug-2025 15:10
Temp Deg C @pH	**22.5**	H	**0**	**0**	**°C**	1	30-Aug-2025 15:10
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		6.00	20.0	mg/L	200	02-Sep-2025 14:51
Chloride	**182,000**		**800**	**2000**	**mg/L**	4000	02-Sep-2025 14:57
Sulfate	**3,120**		**40.0**	**100**	**mg/L**	200	02-Sep-2025 14:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-4 (2615')
Collection Date: 28-Aug-2025 10:23

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	**0.14**		**0.00028**	**0.0010**	**mg/L**	1	03-Sep-2025 12:25
Ethylbenzene	**0.0030**		**0.00033**	**0.0020**	**mg/L**	1	03-Sep-2025 12:25
m,p-Xylene	**0.0050**		**0.00061**	**0.0040**	**mg/L**	1	03-Sep-2025 12:25
o-Xylene	**0.0044**		**0.00031**	**0.0020**	**mg/L**	1	03-Sep-2025 12:25
Toluene	**0.068**		**0.00033**	**0.0020**	**mg/L**	1	03-Sep-2025 12:25
Xylenes, Total	**0.0094**		**0.00092**	**0.0060**	**mg/L**	1	03-Sep-2025 12:25
Surr: 1,2-Dichloroethane-d4	*92.2*			*70-126*	*%REC*	*1*	*03-Sep-2025 12:25*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*03-Sep-2025 12:25*
Surr: Dibromofluoromethane	*96.0*			*77-123*	*%REC*	*1*	*03-Sep-2025 12:25*
Surr: Toluene-d8	*108*			*82-127*	*%REC*	*1*	*03-Sep-2025 12:25*
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 02-Sep-2025		Analyst: JC
Arsenic	U		0.0255	0.100	mg/L	50	03-Sep-2025 13:53
Barium	**0.144**	J	**0.0375**	**0.250**	**mg/L**	50	03-Sep-2025 13:53
Calcium	**795**		**6.00**	**25.0**	**mg/L**	50	03-Sep-2025 13:53
Chromium	U		0.0865	0.250	mg/L	50	03-Sep-2025 13:53
Iron	U		3.00	10.0	mg/L	50	03-Sep-2025 13:53
Lead	U		0.0235	0.100	mg/L	50	03-Sep-2025 13:53
Magnesium	**5.03**	J	**2.04**	**10.0**	**mg/L**	50	03-Sep-2025 13:53
Manganese	**0.231**	J	**0.0950**	**0.250**	**mg/L**	50	03-Sep-2025 13:53
Nickel	**1.03**		**0.0650**	**0.250**	**mg/L**	50	03-Sep-2025 13:53
Potassium	**6.16**	J	**4.34**	**25.0**	**mg/L**	50	03-Sep-2025 13:53
Sodium	**48,300**		**650**	**2500**	**mg/L**	5000	03-Sep-2025 14:13
Strontium	**5.44**		**0.0150**	**0.250**	**mg/L**	50	03-Sep-2025 13:53
Vanadium	U		0.0300	0.250	mg/L	50	03-Sep-2025 13:53
Zinc	**1.90**		**0.150**	**0.500**	**mg/L**	50	03-Sep-2025 13:53
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 03-Sep-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	03-Sep-2025 12:00
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	02-Sep-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**317,000**		**3.00**	**10.0**	**mg/L**	1	30-Aug-2025 09:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: SG
Alkalinity, Bicarbonate (As CaCO3)	**130**		**1.20**	**5.00**	**mg/L**	1	30-Aug-2025 15:16
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	30-Aug-2025 15:16
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	02-Sep-2025 11:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-4 (2615')
Collection Date: 28-Aug-2025 10:23

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: SG
pH	**6.54**	H	**0.100**	**1.00**	**pH Units**	1	30-Aug-2025 15:16
Temp Deg C @pH	**22.1**	H	**0**	**0**	**°C**	1	30-Aug-2025 15:16
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		6.00	20.0	mg/L	200	02-Sep-2025 15:03
Chloride	**180,000**		**800**	**2000**	**mg/L**	4000	02-Sep-2025 15:09
Sulfate	**3,460**		**40.0**	**100**	**mg/L**	200	02-Sep-2025 15:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-4 (2980')
Collection Date: 28-Aug-2025 11:17

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	**0.15**		**0.00056**	**0.0020**	**mg/L**	2	03-Sep-2025 13:28
Ethylbenzene	**0.0032**	J	**0.00066**	**0.0040**	**mg/L**	2	03-Sep-2025 13:28
m,p-Xylene	**0.0053**	J	**0.0012**	**0.0080**	**mg/L**	2	03-Sep-2025 13:28
o-Xylene	**0.0046**		**0.00062**	**0.0040**	**mg/L**	2	03-Sep-2025 13:28
Toluene	**0.063**		**0.00066**	**0.0040**	**mg/L**	2	03-Sep-2025 13:28
Xylenes, Total	**0.0099**	J	**0.0018**	**0.012**	**mg/L**	2	03-Sep-2025 13:28
Surr: 1,2-Dichloroethane-d4	*90.1*			*70-126*	*%REC*	*2*	*03-Sep-2025 13:28*
Surr: 4-Bromofluorobenzene	*96.2*			*77-113*	*%REC*	*2*	*03-Sep-2025 13:28*
Surr: Dibromofluoromethane	*94.7*			*77-123*	*%REC*	*2*	*03-Sep-2025 13:28*
Surr: Toluene-d8	*108*			*82-127*	*%REC*	*2*	*03-Sep-2025 13:28*
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 02-Sep-2025		Analyst: JC
Arsenic	U		0.0255	0.100	mg/L	50	03-Sep-2025 13:55
Barium	**0.176**	J	**0.0375**	**0.250**	**mg/L**	50	03-Sep-2025 13:55
Calcium	**1,040**		**6.00**	**25.0**	**mg/L**	50	03-Sep-2025 13:55
Chromium	U		0.0865	0.250	mg/L	50	03-Sep-2025 13:55
Iron	U		3.00	10.0	mg/L	50	03-Sep-2025 13:55
Lead	U		0.0235	0.100	mg/L	50	03-Sep-2025 13:55
Magnesium	**6.07**	J	**2.04**	**10.0**	**mg/L**	50	03-Sep-2025 13:55
Manganese	**0.272**		**0.0950**	**0.250**	**mg/L**	50	03-Sep-2025 13:55
Nickel	**0.749**		**0.0650**	**0.250**	**mg/L**	50	03-Sep-2025 13:55
Potassium	**7.41**	J	**4.34**	**25.0**	**mg/L**	50	03-Sep-2025 13:55
Sodium	**59,400**		**650**	**2500**	**mg/L**	5000	03-Sep-2025 14:15
Strontium	**7.11**		**0.0150**	**0.250**	**mg/L**	50	03-Sep-2025 13:55
Vanadium	U		0.0300	0.250	mg/L	50	03-Sep-2025 13:55
Zinc	**0.527**		**0.150**	**0.500**	**mg/L**	50	03-Sep-2025 13:55
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 03-Sep-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	03-Sep-2025 12:02
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	02-Sep-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**273,000**		**3.00**	**10.0**	**mg/L**	1	30-Aug-2025 09:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: SG
Alkalinity, Bicarbonate (As CaCO3)	**123**		**1.20**	**5.00**	**mg/L**	1	30-Aug-2025 15:22
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	30-Aug-2025 15:22
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	02-Sep-2025 11:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: PPG-4 (2980')
Collection Date: 28-Aug-2025 11:17

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SM4500H+ B	**Method:SM4500H+ B**						Analyst: SG
pH	**6.41**	H	**0.100**	**1.00**	**pH Units**	1	30-Aug-2025 15:22
Temp Deg C @pH	**21.9**	H	**0**	**0**	**°C**	1	30-Aug-2025 15:22
ANIONS BY SW9056A	**Method:SW9056**						Analyst: TH
Bromide	U		6.00	20.0	mg/L	200	02-Sep-2025 15:15
Chloride	**187,000**		**800**	**2000**	**mg/L**	4000	02-Sep-2025 15:21
Sulfate	**3,760**		**40.0**	**100**	**mg/L**	200	02-Sep-2025 15:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 28-Aug-2025 12:30

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	03-Sep-2025 12:46
Ethylbenzene		U	0.00033	0.0020	mg/L	1	03-Sep-2025 12:46
m,p-Xylene		U	0.00061	0.0040	mg/L	1	03-Sep-2025 12:46
o-Xylene		U	0.00031	0.0020	mg/L	1	03-Sep-2025 12:46
Toluene		U	0.00033	0.0020	mg/L	1	03-Sep-2025 12:46
Xylenes, Total		U	0.00092	0.0060	mg/L	1	03-Sep-2025 12:46
Surr: 1,2-Dichloroethane-d4	*85.0*			*70-126*	*%REC*	*1*	*03-Sep-2025 12:46*
Surr: 4-Bromofluorobenzene	*92.5*			*77-113*	*%REC*	*1*	*03-Sep-2025 12:46*
Surr: Dibromofluoromethane	*94.1*			*77-123*	*%REC*	*1*	*03-Sep-2025 12:46*
Surr: Toluene-d8	*97.8*			*82-127*	*%REC*	*1*	*03-Sep-2025 12:46*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	03-Sep-2025 00:22
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	03-Sep-2025 00:22
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	03-Sep-2025 00:22
Surr: 2,5-Dibromotoluene (Aliphatic)	*97.8*			*70-130*	*%REC*	*1*	*03-Sep-2025 00:22*
Surr: 2,5-Dibromotoluene (Aromatic)	*94.7*			*70-130*	*%REC*	*1*	*03-Sep-2025 00:22*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 02-Sep-2025		Analyst: RG
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	03-Sep-2025 17:57
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	03-Sep-2025 17:57
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	03-Sep-2025 17:57
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	03-Sep-2025 17:57
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	03-Sep-2025 17:57
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	03-Sep-2025 17:57
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	03-Sep-2025 17:57
Surr: 1-Chlorooctadecane	*61.7*			*40-140*	*%REC*	*1*	*03-Sep-2025 17:57*
Surr: 2-Bromonaphthalene	*93.6*			*40-140*	*%REC*	*1*	*03-Sep-2025 17:57*
Surr: 2-Fluorobiphenyl	*92.6*			*40-140*	*%REC*	*1*	*03-Sep-2025 17:57*
Surr: o-Terphenyl	*80.4*			*40-140*	*%REC*	*1*	*03-Sep-2025 17:57*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1603
Collection Date: 28-Aug-2025 12:30

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 02-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	03-Sep-2025 14:09
Barium	**0.254**		**0.000750**	**0.00500**	**mg/L**	1	03-Sep-2025 14:09
Calcium	**26.0**		**0.120**	**0.500**	**mg/L**	1	03-Sep-2025 14:09
Chromium	U		0.00173	0.00500	mg/L	1	03-Sep-2025 14:09
Iron	**3.70**		**0.0600**	**0.200**	**mg/L**	1	03-Sep-2025 14:09
Lead	U		0.000470	0.00200	mg/L	1	03-Sep-2025 14:09
Magnesium	**8.23**		**0.0408**	**0.200**	**mg/L**	1	03-Sep-2025 14:09
Manganese	**0.351**		**0.00190**	**0.00500**	**mg/L**	1	03-Sep-2025 14:09
Nickel	U		0.00130	0.00500	mg/L	1	03-Sep-2025 14:09
Potassium	**3.32**		**0.0869**	**0.500**	**mg/L**	1	03-Sep-2025 14:09
Sodium	**43.3**		**0.130**	**0.500**	**mg/L**	1	03-Sep-2025 14:09
Strontium	**0.231**		**0.000300**	**0.00500**	**mg/L**	1	03-Sep-2025 14:09
Vanadium	U		0.000600	0.00500	mg/L	1	03-Sep-2025 14:09
Zinc	**0.0102**		**0.00300**	**0.0100**	**mg/L**	1	03-Sep-2025 14:09
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 03-Sep-2025		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	03-Sep-2025 12:03
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	02-Sep-2025 11:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**296**		**3.00**	**10.0**	**mg/L**	1	30-Aug-2025 09:30
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: SG
Alkalinity, Bicarbonate (As CaCO3)	**122**		**1.20**	**5.00**	**mg/L**	1	30-Aug-2025 15:28
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	30-Aug-2025 15:28
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	02-Sep-2025 11:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: SG
pH	**7.42**	H	**0.100**	**1.00**	**pH Units**	1	30-Aug-2025 15:28
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	30-Aug-2025 15:28
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	02-Sep-2025 15:26
Chloride	**44.1**		**0.200**	**0.500**	**mg/L**	1	02-Sep-2025 15:26
Sulfate	**2.94**		**0.200**	**0.500**	**mg/L**	1	02-Sep-2025 15:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-0812225-002
Collection Date: 28-Aug-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25081491
Lab ID:HS25081491-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: LA
Benzene		U	0.00028	0.0010	mg/L	1	03-Sep-2025 00:07
Ethylbenzene		U	0.00033	0.0020	mg/L	1	03-Sep-2025 00:07
m,p-Xylene		U	0.00061	0.0040	mg/L	1	03-Sep-2025 00:07
o-Xylene		U	0.00031	0.0020	mg/L	1	03-Sep-2025 00:07
Toluene		U	0.00033	0.0020	mg/L	1	03-Sep-2025 00:07
Xylenes, Total		U	0.00092	0.0060	mg/L	1	03-Sep-2025 00:07
Surr: 1,2-Dichloroethane-d4	*89.9*			*70-126*	*%REC*	*1*	*03-Sep-2025 00:07*
Surr: 4-Bromofluorobenzene	*100*			*77-113*	*%REC*	*1*	*03-Sep-2025 00:07*
Surr: Dibromofluoromethane	*97.7*			*77-123*	*%REC*	*1*	*03-Sep-2025 00:07*
Surr: Toluene-d8	*103*			*82-127*	*%REC*	*1*	*03-Sep-2025 00:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

Batch ID: 232406 **Start Date:** 02 Sep 2025 15:30 **End Date:** 02 Sep 2025 15:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25081491-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081491-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081491-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081491-04		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 232437 **Start Date:** 02 Sep 2025 14:00 **End Date:** 02 Sep 2025 14:00
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25081491-04		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 232461 **Start Date:** 03 Sep 2025 07:00 **End Date:** 03 Sep 2025 07:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25081491-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081491-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081491-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25081491-04		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 232406 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11		02 Sep 2025 15:30	03 Sep 2025 14:11	5000
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11		02 Sep 2025 15:30	03 Sep 2025 13:51	50
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23		02 Sep 2025 15:30	03 Sep 2025 14:13	5000
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23		02 Sep 2025 15:30	03 Sep 2025 13:53	50
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17		02 Sep 2025 15:30	03 Sep 2025 14:15	5000
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17		02 Sep 2025 15:30	03 Sep 2025 13:55	50
HS25081491-04	019-1603	28 Aug 2025 12:30		02 Sep 2025 15:30	03 Sep 2025 14:09	1
Batch ID: 232437 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25081491-04	019-1603	28 Aug 2025 12:30		02 Sep 2025 14:00	03 Sep 2025 17:57	1
HS25081491-04	019-1603	28 Aug 2025 12:30		02 Sep 2025 14:00	03 Sep 2025 17:57	1
Batch ID: 232461 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11		03 Sep 2025 07:00	03 Sep 2025 11:58	1
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23		03 Sep 2025 07:00	03 Sep 2025 12:00	1
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17		03 Sep 2025 07:00	03 Sep 2025 12:02	1
HS25081491-04	019-1603	28 Aug 2025 12:30		03 Sep 2025 07:00	03 Sep 2025 12:03	1
Batch ID: R520902 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			30 Aug 2025 09:30	1
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			30 Aug 2025 09:30	1
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			30 Aug 2025 09:30	1
HS25081491-04	019-1603	28 Aug 2025 12:30			30 Aug 2025 09:30	1
Batch ID: R520909 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			30 Aug 2025 15:10	1
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			30 Aug 2025 15:16	1
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			30 Aug 2025 15:22	1
HS25081491-04	019-1603	28 Aug 2025 12:30			30 Aug 2025 15:28	1
Batch ID: R520910 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			30 Aug 2025 15:10	1
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			30 Aug 2025 15:16	1
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			30 Aug 2025 15:22	1
HS25081491-04	019-1603	28 Aug 2025 12:30			30 Aug 2025 15:28	1
Batch ID: R520935 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			02 Sep 2025 11:00	1
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			02 Sep 2025 11:00	1
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			02 Sep 2025 11:00	1
HS25081491-04	019-1603	28 Aug 2025 12:30			02 Sep 2025 11:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R520936 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			02 Sep 2025 11:00	1
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			02 Sep 2025 11:00	1
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			02 Sep 2025 11:00	1
HS25081491-04	019-1603	28 Aug 2025 12:30			02 Sep 2025 11:00	1
Batch ID: R520981 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			02 Sep 2025 14:57	4000
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			02 Sep 2025 14:51	200
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			02 Sep 2025 15:09	4000
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			02 Sep 2025 15:03	200
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			02 Sep 2025 15:21	4000
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			02 Sep 2025 15:15	200
HS25081491-04	019-1603	28 Aug 2025 12:30			02 Sep 2025 15:26	1
Batch ID: R521017 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25081491-04	019-1603	28 Aug 2025 12:30			03 Sep 2025 00:22	1
Batch ID: R521019 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25081491-04	019-1603	28 Aug 2025 12:30			03 Sep 2025 00:22	1
Batch ID: R521032 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25081491-01	PPG-4 (2445')	28 Aug 2025 09:11			03 Sep 2025 00:30	1
HS25081491-05	CG-0812225-002	28 Aug 2025 00:00			03 Sep 2025 00:07	1
Batch ID: R521054 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25081491-02	PPG-4 (2615')	28 Aug 2025 10:23			03 Sep 2025 12:25	1
HS25081491-03	PPG-4 (2980')	28 Aug 2025 11:17			03 Sep 2025 13:28	2
HS25081491-04	019-1603	28 Aug 2025 12:30			03 Sep 2025 12:46	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: 232437 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-232437** Units: **mg/L** Analysis Date: **03-Sep-2025 16:30**
Client ID: Run ID: **FID23_521105** SeqNo: **9016927** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02702*	*0*	*0.04*	*0*	*67.6*	*40 - 140*				

MBLK Sample ID: **MBLK-232437** Units: **mg/L** Analysis Date: **03-Sep-2025 16:30**
Client ID: Run ID: **FID-22_521101** SeqNo: **9016818** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03568*	*0*	*0.04*	*0*	*89.2*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03819*	*0*	*0.04*	*0*	*95.5*	*40 - 140*				
Surr: o-Terphenyl	*0.0334*	*0*	*0.04*	*0*	*83.5*	*40 - 140*				

LCS Sample ID: **LCS-232437** Units: **mg/L** Analysis Date: **03-Sep-2025 16:59**
Client ID: Run ID: **FID23_521105** SeqNo: **9016928** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04502	0.100	0.05	0	90.0	40 - 140				J
Aliphatics >C12 - C16	0.1006	0.100	0.1	0	101	40 - 140				
Aliphatics >C16 - C35	0.3444	0.100	0.4	0	86.1	40 - 140				
Surr: 1-Chlorooctadecane	*0.02308*	*0*	*0.04*	*0*	*57.7*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: 232437 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-232437** Units: **mg/L** Analysis Date: **03-Sep-2025 16:59**
Client ID: Run ID: **FID-22_521101** SeqNo: **9016819** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04004	0.100	0.05	0	80.1	40 - 140				J
Aromatics >C12 - C16	0.1604	0.100	0.2	0	80.2	40 - 140				
Aromatics >C16 - C21	0.1431	0.100	0.15	0	95.4	40 - 140				
Aromatics >C21 - C35	0.4267	0.100	0.45	0	94.8	40 - 140				
Surr: 2-Bromonaphthalene	*0.02502*	*0*	*0.04*	*0*	*62.6*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03557*	*0*	*0.04*	*0*	*88.9*	*40 - 140*				
Surr: o-Terphenyl	*0.02954*	*0*	*0.04*	*0*	*73.8*	*40 - 140*				

LCSD Sample ID: **LCSD-232437** Units: **mg/L** Analysis Date: **03-Sep-2025 17:28**
Client ID: Run ID: **FID23_521105** SeqNo: **9016929** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.05114	0.100	0.05	0	102	40 - 140	0.04502	0	50	J
Aliphatics >C12 - C16	0.1086	0.100	0.1	0	109	40 - 140	0.1006	7.65	50	
Aliphatics >C16 - C35	0.4007	0.100	0.4	0	100	40 - 140	0.3444	15.1	50	
Surr: 1-Chlorooctadecane	*0.02672*	*0*	*0.04*	*0*	*66.8*	*40 - 140*	*0.02308*	*14.6*	*50*	

LCSD Sample ID: **LCSD-232437** Units: **mg/L** Analysis Date: **03-Sep-2025 17:28**
Client ID: Run ID: **FID-22_521101** SeqNo: **9016820** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04621	0.100	0.05	0	92.4	40 - 140	0.04004	0	50	J
Aromatics >C12 - C16	0.1887	0.100	0.2	0	94.4	40 - 140	0.1604	16.2	50	
Aromatics >C16 - C21	0.1586	0.100	0.15	0	106	40 - 140	0.1431	10.3	50	
Aromatics >C21 - C35	0.4651	0.100	0.45	0	103	40 - 140	0.4267	8.61	50	
Surr: 2-Bromonaphthalene	*0.02951*	*0*	*0.04*	*0*	*73.8*	*40 - 140*	*0.02502*	*16.5*	*50*	
Surr: 2-Fluorobiphenyl	*0.03698*	*0*	*0.04*	*0*	*92.4*	*40 - 140*	*0.03557*	*3.9*	*50*	
Surr: o-Terphenyl	*0.03241*	*0*	*0.04*	*0*	*81.0*	*40 - 140*	*0.02954*	*9.27*	*50*	

The following samples were analyzed in this batch: HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R521017 (0) **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MBLK Sample ID: **MBLK-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 13:22**
Client ID: Run ID: **FID-14_521017** SeqNo: **9015185** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.248*	*0.0100*	*0.25*	*0*	*99.2*	*70 - 130*				

LCS Sample ID: **LCS-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 12:04**
Client ID: Run ID: **FID-14_521017** SeqNo: **9015183** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02599	0.00500	0.025	0	104	70 - 130				
Aliphatics >C8 - C10	0.02046	0.00500	0.025	0	81.8	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2528*	*0.0100*	*0.25*	*0*	*101*	*70 - 130*				

LCSD Sample ID: **LCSD-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 12:43**
Client ID: Run ID: **FID-14_521017** SeqNo: **9015184** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02323	0.00500	0.025	0	92.9	70 - 130	0.02599	11.2	25	
Aliphatics >C8 - C10	0.01981	0.00500	0.025	0	79.2	70 - 130	0.02046	3.21	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2275*	*0.0100*	*0.25*	*0*	*91.0*	*70 - 130*	*0.2528*	*10.5*	*25*	

The following samples were analyzed in this batch: HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R521019 (0) **Instrument: FID-15** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MBLK Sample ID: **MBLK-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 13:22**
Client ID: Run ID: **FID-15_521019** SeqNo: **9015215** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2378*	*0.0100*	*0.25*	*0*	*95.1*	*70 - 130*				

LCS Sample ID: **LCS-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 12:04**
Client ID: Run ID: **FID-15_521019** SeqNo: **9015213** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08707	0.0200	0.1	0	87.1	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2396*	*0.0100*	*0.25*	*0*	*95.8*	*70 - 130*				

LCSD Sample ID: **LCSD-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 12:43**
Client ID: Run ID: **FID-15_521019** SeqNo: **9015214** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.08007	0.0200	0.1	0	80.1	70 - 130	0.08707	8.38	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2176*	*0.0100*	*0.25*	*0*	*87.0*	*70 - 130*	*0.2396*	*9.61*	*25*	

The following samples were analyzed in this batch: HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: 232406 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-232406** Units: **mg/L** Analysis Date: **03-Sep-2025 12:03**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015427** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00500								
Calcium	U	0.500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00500								
Potassium	U	0.500								
Sodium	U	0.500								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.0100								

LCS Sample ID: **LCS-232406** Units: **mg/L** Analysis Date: **03-Sep-2025 12:05**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015428** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04581	0.00200	0.05	0	91.6	80 - 120				
Barium	0.04768	0.00500	0.05	0	95.4	80 - 120				
Calcium	4.992	0.500	5	0	99.8	80 - 120				
Chromium	0.04677	0.00500	0.05	0	93.5	80 - 120				
Iron	4.766	0.200	5	0	95.3	80 - 120				
Lead	0.04627	0.00200	0.05	0	92.5	80 - 120				
Magnesium	5.002	0.200	5	0	100	80 - 120				
Manganese	0.048	0.00500	0.05	0	96.0	80 - 120				
Nickel	0.04637	0.00500	0.05	0	92.7	80 - 120				
Potassium	5.034	0.500	5	0	101	80 - 120				
Sodium	5.019	0.500	5	0	100	80 - 120				
Strontium	0.09221	0.00500	0.1	0	92.2	80 - 120				
Vanadium	0.04662	0.00500	0.05	0	93.2	80 - 120				
Zinc	0.04994	0.0100	0.05	0	99.9	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: 232406 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25081494-01MS** Units: **mg/L** Analysis Date: **03-Sep-2025 12:13**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015432** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04507	0.00200	0.05	0.000205	89.7	80 - 120				
Barium	0.0906	0.00500	0.05	0.04379	93.6	80 - 120				
Calcium	93.67	0.500	5	93.66	0.236	80 - 120				SO
Chromium	0.04498	0.00500	0.05	0.001465	87.0	80 - 120				
Iron	17.12	0.200	5	12.96	83.1	80 - 120				
Lead	0.04501	0.00200	0.05	0.000343	89.3	80 - 120				
Magnesium	30.48	0.200	5	26.58	78.0	80 - 120				SO
Manganese	1.126	0.00500	0.05	1.102	46.6	80 - 120				SO
Nickel	0.04535	0.00500	0.05	0.002361	86.0	80 - 120				
Potassium	10.23	0.500	5	5.673	91.0	80 - 120				
Sodium	59.72	0.500	5	56.77	59.1	80 - 120				SO
Strontium	2.23	0.00500	0.1	2.236	-6.13	80 - 120				SEO
Vanadium	0.04648	0.00500	0.05	0.002025	88.9	80 - 120				
Zinc	0.05569	0.0100	0.05	0.009993	91.4	80 - 120				

MSD Sample ID: **HS25081494-01MSD** Units: **mg/L** Analysis Date: **03-Sep-2025 12:15**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015433** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04557	0.00200	0.05	0.000205	90.7	80 - 120	0.04507	1.11	20	
Barium	0.08933	0.00500	0.05	0.04379	91.1	80 - 120	0.0906	1.41	20	
Calcium	93.53	0.500	5	93.66	-2.49	80 - 120	93.67	0.146	20	SO
Chromium	0.04524	0.00500	0.05	0.001465	87.5	80 - 120	0.04498	0.568	20	
Iron	17.17	0.200	5	12.96	84.2	80 - 120	17.12	0.308	20	
Lead	0.04475	0.00200	0.05	0.000343	88.8	80 - 120	0.04501	0.582	20	
Magnesium	29.98	0.200	5	26.58	68.1	80 - 120	30.48	1.64	20	SO
Manganese	1.122	0.00500	0.05	1.102	39.0	80 - 120	1.126	0.342	20	SO
Nickel	0.04574	0.00500	0.05	0.002361	86.8	80 - 120	0.04535	0.861	20	
Potassium	10.23	0.500	5	5.673	91.1	80 - 120	10.23	0.0326	20	
Sodium	59.86	0.500	5	56.77	61.9	80 - 120	59.72	0.233	20	SO
Strontium	2.244	0.00500	0.1	2.236	7.80	80 - 120	2.23	0.623	20	SEO
Vanadium	0.04659	0.00500	0.05	0.002025	89.1	80 - 120	0.04648	0.239	20	
Zinc	0.05653	0.0100	0.05	0.009993	93.1	80 - 120	0.05569	1.5	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: 232406 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25081494-01PDS** Units: **mg/L** Analysis Date: **03-Sep-2025 12:17**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015434** PrepDate: **02-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1019	0.00200	0.1	0.000205	102	75 - 125				
Barium	0.1514	0.00500	0.1	0.04379	108	75 - 125				
Calcium	110.9	0.500	10	93.66	172	75 - 125				SO
Chromium	0.0991	0.00500	0.1	0.001465	97.6	75 - 125				
Iron	24.19	0.200	10	12.96	112	75 - 125				
Lead	0.1015	0.00200	0.1	0.000343	101	75 - 125				
Manganese	1.296	0.00500	0.1	1.102	194	75 - 125				SO
Nickel	0.09904	0.00500	0.1	0.002361	96.7	75 - 125				
Potassium	16.67	0.500	10	5.673	110	75 - 125				
Vanadium	0.1023	0.00500	0.1	0.002025	100	75 - 125				
Zinc	0.1106	0.0100	0.1	0.009993	101	75 - 125				

PDS Sample ID: **HS25081494-01PDS** Units: **mg/L** Analysis Date: **03-Sep-2025 14:30**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015649** PrepDate: **02-Sep-2025** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	234.3	4.00	200	28.69	103	75 - 125				
Sodium	269.2	10.0	200	62.28	103	75 - 125				
Strontium	4.865	0.100	3	2.243	87.4	75 - 125				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: 232406 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

SD Sample ID: **HS25081494-01SD** Units: **mg/L** Analysis Date: **03-Sep-2025 12:07**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015429** PrepDate: **02-Sep-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.000205	0	10	
Barium	0.04443	0.0250					0.04379	1.47	10	
Calcium	98.85	2.50					93.66	5.55	10	
Chromium	U	0.0250					0.001465	0	10	
Iron	13.64	1.00					12.96	5.21	10	
Lead	U	0.0100					0.000343	0	10	
Manganese	1.193	0.0250					1.102	8.23	10	
Nickel	U	0.0250					0.002361	0	10	
Potassium	6.077	2.50					5.673	7.12	10	
Vanadium	U	0.0250					0.002025	0	10	
Zinc	U	0.0500					0.009993	0	10	

SD Sample ID: **HS25081494-01SD** Units: **mg/L** Analysis Date: **03-Sep-2025 14:54**
Client ID: Run ID: **ICPMS06_521003** SeqNo: **9015753** PrepDate: **02-Sep-2025** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Magnesium	28.33	20.0					28.69	1.26	10	
Sodium	66.41	50.0					62.28	6.62	10	
Strontium	2.089	0.500					2.243	6.87	10	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: 232461 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-232461** Units: **mg/L** Analysis Date: **03-Sep-2025 11:50**
Client ID: Run ID: **HG05_521047** SeqNo: **9015681** PrepDate: **03-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-232461** Units: **mg/L** Analysis Date: **03-Sep-2025 11:51**
Client ID: Run ID: **HG05_521047** SeqNo: **9015682** PrepDate: **03-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00456	0.000200	0.005	0	91.2	80 - 120				

MS Sample ID: **HS25081512-05MS** Units: **mg/L** Analysis Date: **03-Sep-2025 12:22**
Client ID: Run ID: **HG05_521047** SeqNo: **9015697** PrepDate: **03-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00454	0.000200	0.005	0.000065	89.5	75 - 125				

MSD Sample ID: **HS25081512-05MSD** Units: **mg/L** Analysis Date: **03-Sep-2025 12:25**
Client ID: Run ID: **HG05_521047** SeqNo: **9015698** PrepDate: **03-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00446	0.000200	0.005	0.000065	87.9	75 - 125	0.00454	1.78	20	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R521032 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 23:20**
Client ID: Run ID: **VOA13_521032** SeqNo: **9015464** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.046*	*0.0010*	*0.05*	*0*	*92.0*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*0.053*	*0.0010*	*0.05*	*0*	*106*	*73 - 126*				
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*				

LCS Sample ID: **LCS-250902** Units: **mg/L** Analysis Date: **02-Sep-2025 22:11**
Client ID: Run ID: **VOA13_521032** SeqNo: **9015462** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.021	0.0010	0.02	0	106	74 - 120				
Ethylbenzene	0.023	0.0020	0.02	0	114	77 - 117				
m,p-Xylene	0.046	0.0040	0.04	0	115	77 - 122				
o-Xylene	0.023	0.0020	0.02	0	114	75 - 119				
Toluene	0.022	0.0020	0.02	0	111	77 - 118				
Xylenes, Total	0.069	0.0060	0.06	0	115	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.046*	*0.0010*	*0.05*	*0*	*91.5*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*100.0*	*77 - 113*				
Surr: Dibromofluoromethane	*0.052*	*0.0010*	*0.05*	*0*	*104*	*73 - 126*				
Surr: Toluene-d8	*0.054*	*0.0010*	*0.05*	*0*	*109*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R521032 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS25081533-01MS** Units: **mg/L** Analysis Date: **03-Sep-2025 07:27**
Client ID: Run ID: **VOA13_521032** SeqNo: **9015487** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.023	0.0010	0.02	0	113	70 - 127				
Ethylbenzene	0.024	0.0020	0.02	0	118	70 - 124				
m,p-Xylene	0.048	0.0040	0.04	0	120	70 - 130				
o-Xylene	0.023	0.0020	0.02	0	116	70 - 124				
Toluene	0.023	0.0020	0.02	0	114	70 - 123				
Xylenes, Total	0.071	0.0060	0.06	0	119	70 - 130				
Surr: 1,2-Dichloroethane-d4	*0.042*	*0.0010*	*0.05*	*0*	*83.0*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*0.049*	*0.0010*	*0.05*	*0*	*98.8*	*77 - 113*				
Surr: Dibromofluoromethane	*0.048*	*0.0010*	*0.05*	*0*	*96.3*	*77 - 123*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*82 - 127*				

MSD Sample ID: **HS25081533-01MSD** Units: **mg/L** Analysis Date: **03-Sep-2025 07:51**
Client ID: Run ID: **VOA13_521032** SeqNo: **9015488** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.023	0.0010	0.02	0	116	70 - 127	0.02264	2.35	20	
Ethylbenzene	0.023	0.0020	0.02	0	117	70 - 124	0.02359	0.629	20	
m,p-Xylene	0.046	0.0040	0.04	0	115	70 - 130	0.04788	4.15	20	
o-Xylene	0.023	0.0020	0.02	0	114	70 - 124	0.02328	1.75	20	
Toluene	0.022	0.0020	0.02	0	110	70 - 123	0.02288	4.05	20	
Xylenes, Total	0.069	0.0060	0.06	0	115	70 - 130	0.07117	3.36	20	
Surr: 1,2-Dichloroethane-d4	*0.044*	*0.0010*	*0.05*	*0*	*87.8*	*70 - 126*	*0.04152*	*5.62*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*	*0.04942*	*1.7*	*20*	
Surr: Dibromofluoromethane	*0.047*	*0.0010*	*0.05*	*0*	*94.6*	*77 - 123*	*0.04814*	*1.8*	*20*	
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*98.0*	*82 - 127*	*0.05042*	*2.88*	*20*	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R521054 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250903** Units: **mg/L** Analysis Date: **03-Sep-2025 10:42**
Client ID: Run ID: **VOA4_521054** SeqNo: **9015884** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.040*	*0.0010*	*0.05*	*0*	*80.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.047*	*0.0010*	*0.05*	*0*	*93.4*	*77 - 113*				
Surr: Dibromofluoromethane	*0.047*	*0.0010*	*0.05*	*0*	*93.1*	*73 - 126*				
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*				

LCS Sample ID: **LCS-250903** Units: **mg/L** Analysis Date: **03-Sep-2025 09:39**
Client ID: Run ID: **VOA4_521054** SeqNo: **9015894** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.018	0.0010	0.02	0	91.9	74 - 120				
Ethylbenzene	0.020	0.0020	0.02	0	98.0	77 - 117				
m,p-Xylene	0.040	0.0040	0.04	0	98.8	77 - 122				
o-Xylene	0.020	0.0020	0.02	0	100	75 - 119				
Toluene	0.019	0.0020	0.02	0	96.3	77 - 118				
Xylenes, Total	0.060	0.0060	0.06	0	99.3	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.043*	*0.0010*	*0.05*	*0*	*86.7*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.047*	*0.0010*	*0.05*	*0*	*93.5*	*77 - 113*				
Surr: Dibromofluoromethane	*0.047*	*0.0010*	*0.05*	*0*	*94.2*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R521054 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250903** Units: **mg/L** Analysis Date: **03-Sep-2025 10:00**
Client ID: Run ID: **VOA4_521054** SeqNo: **9015883** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.017	0.0010	0.02	0	87.4	74 - 120	0.01838	5.04	20	
Ethylbenzene	0.020	0.0020	0.02	0	98.5	77 - 117	0.01961	0.483	20	
m,p-Xylene	0.040	0.0040	0.04	0	99.8	77 - 122	0.03953	0.922	20	
o-Xylene	0.020	0.0020	0.02	0	100	75 - 119	0.02007	0.0946	20	
Toluene	0.019	0.0020	0.02	0	96.0	77 - 118	0.01926	0.338	20	
Xylenes, Total	0.060	0.0060	0.06	0	100.0	75 - 122	0.05960	0.644	20	
Surr: 1,2-Dichloroethane-d4	*0.041*	*0.0010*	*0.05*	*0*	*82.8*	*70 - 123*	*0.04334*	*4.61*	*20*	
Surr: 4-Bromofluorobenzene	*0.047*	*0.0010*	*0.05*	*0*	*93.3*	*77 - 113*	*0.04677*	*0.265*	*20*	
Surr: Dibromofluoromethane	*0.046*	*0.0010*	*0.05*	*0*	*92.8*	*73 - 126*	*0.04712*	*1.54*	*20*	
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*103*	*81 - 120*	*0.05033*	*2.28*	*20*	

The following samples were analyzed in this batch: HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R520902 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-08302025** Units: **mg/L** Analysis Date: **30-Aug-2025 09:30**
Client ID: Run ID: **Balance1_520902** SeqNo: **9012365** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-08302025** Units: **mg/L** Analysis Date: **30-Aug-2025 09:30**
Client ID: Run ID: **Balance1_520902** SeqNo: **9012364** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	964	10.0	1000	0	96.4	85 - 115				

DUP Sample ID: **HS25081491-02DUP** Units: **mg/L** Analysis Date: **30-Aug-2025 09:30**
Client ID: **PPG-4 (2615')** Run ID: **Balance1_520902** SeqNo: **9012353** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	312300	10.0					317300	1.58	20	

DUP Sample ID: **HS25081447-01DUP** Units: **mg/L** Analysis Date: **30-Aug-2025 09:30**
Client ID: Run ID: **Balance1_520902** SeqNo: **9012345** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	5140	10.0					4900	4.78	20	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R520909 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-08.30.2025** Units: **mg/L** Analysis Date: **30-Aug-2025 14:52**
Client ID: Run ID: **Skalar 03_520909** SeqNo: **9012472** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-08.30.2025** Units: **mg/L** Analysis Date: **30-Aug-2025 14:58**
Client ID: Run ID: **Skalar 03_520909** SeqNo: **9012473** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	987	5.00	1000	0	98.7	85 - 115				

LCSD Sample ID: **LCSD-08.30.2025** Units: **mg/L** Analysis Date: **30-Aug-2025 15:05**
Client ID: Run ID: **Skalar 03_520909** SeqNo: **9012474** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	1021	5.00	1000	0	102	85 - 115	987	3.43	20	

DUP Sample ID: **HS25081491-04DUP** Units: **mg/L** Analysis Date: **30-Aug-2025 15:34**
Client ID: **019-1603** Run ID: **Skalar 03_520909** SeqNo: **9012479** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	122.6	5.00					122	0.491	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: **R520910 (0)** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25081491-04DUP** Units: **pH Units** Analysis Date: **30-Aug-2025 15:34**
Client ID: **019-1603** Run ID: **Skalar 03_520910** SeqNo: **9012496** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.38	1.00					7.42	0.541	10	
Temp Deg C @pH	21.8	0					21.8	0	10	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R520935 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R520935** Units: **mg/L** Analysis Date: **02-Sep-2025 11:00**
Client ID: Run ID: **WetChem_HS_520935** SeqNo: **9013003** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R520935** Units: **mg/L** Analysis Date: **02-Sep-2025 11:00**
Client ID: Run ID: **WetChem_HS_520935** SeqNo: **9013002** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.36	5.00	25	0	89.4	85 - 115				

LCSD Sample ID: **LCSD-R520935** Units: **mg/L** Analysis Date: **02-Sep-2025 11:00**
Client ID: Run ID: **WetChem_HS_520935** SeqNo: **9013001** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.56	5.00	25	0	90.2	85 - 115	22.36	0.89	20	

MS Sample ID: **HS25081476-02MS** Units: **mg/L** Analysis Date: **02-Sep-2025 11:00**
Client ID: Run ID: **WetChem_HS_520935** SeqNo: **9013004** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.76	5.00	25	-1.64	93.6	80 - 120				

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R520936 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R520936** Units: **mg/L** Analysis Date: **02-Sep-2025 11:00**
Client ID: Run ID: **WetChem_HS_520936** SeqNo: **9013022** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R520936** Units: **mg/L** Analysis Date: **02-Sep-2025 11:00**
Client ID: Run ID: **WetChem_HS_520936** SeqNo: **9013021** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.76	1.00	26.56	0	89.4	80 - 120				

LCSD Sample ID: **LCSD-R520936** Units: **mg/L** Analysis Date: **02-Sep-2025 11:00**
Client ID: Run ID: **WetChem_HS_520936** SeqNo: **9013020** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.97	1.00	26.56	0	90.2	80 - 120	23.76	0.89	20	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25081491

QC BATCH REPORT

Batch ID: R520981 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **02-Sep-2025 14:34**
Client ID: Run ID: **ICS-Integrion_520981** SeqNo: **9014227** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **02-Sep-2025 14:46**
Client ID: Run ID: **ICS-Integrion_520981** SeqNo: **9014228** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.441	0.100	4	0	111	80 - 120				
Chloride	19.49	0.500	20	0	97.5	80 - 120				
Sulfate	21.4	0.500	20	0	107	80 - 120				

MS Sample ID: **HS25081472-01MS** Units: **mg/L** Analysis Date: **02-Sep-2025 16:07**
Client ID: Run ID: **ICS-Integrion_520981** SeqNo: **9014240** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.557	0.100	2	0	77.8	80 - 120				S
Chloride	16.53	0.500	10	6.839	96.9	80 - 120				
Sulfate	46.72	0.500	10	37.28	94.3	80 - 120				

MSD Sample ID: **HS25081472-01MSD** Units: **mg/L** Analysis Date: **02-Sep-2025 16:13**
Client ID: Run ID: **ICS-Integrion_520981** SeqNo: **9014241** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.57	0.100	2	0	78.5	80 - 120	1.557	0.851	20	S
Chloride	16.6	0.500	10	6.839	97.6	80 - 120	16.53	0.399	20	
Sulfate	46.76	0.500	10	37.28	94.8	80 - 120	46.72	0.104	20	

The following samples were analyzed in this batch: HS25081491-01 HS25081491-02 HS25081491-03 HS25081491-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25081491**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	TX-C25-00104	30-Apr-2026

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25081491 **Date/Time Received:** **29-Aug-2025 11:00**

Client Name: ERMSW-HOU **Received by:** **Edgar Zheku**

Completed By:	/S/ Edgar Zheku	29-Aug-2025 15:27	**Reviewed by:**	/S/ Beverly Mustafa	29-Aug-2025 17:07
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:348703
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.0UC/3.0C	IR 34
Cooler(s)/Kit(s):	54099	
Date/Time sample(s) sent to storage:	08/29/2025 15:27	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 348703

HS25081491

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information	
Purchase Order	0794035	Project Name	Sulphur Dome
Work Order		Project Number	
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.
Send Report To	Scott Himes	Invoice Attn	Accounts Payable
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024
Phone	(281) 600-1000	Phone	(281) 600-1000
Fax	(281) 600-1001	Fax	(281) 600-1001
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com

A	8260_LL_W (Low Level VOC: (8260) BTEX)
B	ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
C	HG_W (Mercury)
D	MA EPH_W_La (MA EPH)
E	MA VPH_LA_W
F	9056_anions_W (Cl,SO4,Br) / pH
G	ALK_W 2320B (carb, bicarb)
H	H2S_W (H2S)
I	SULFD_4500S F (Sulfide)
J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PPG 4 (2445')	8/28/25	9:11	W	1,2,4,8	6	X	X	X			X	X	X	X	X	
2	PPG 4 (2615')	↓	10:23	↓	↓	↓	X	X	X			X	X	X	X	X	
3	PPG 4 (2980')	↓	11:17	↓	↓	↓	X	X	X			X	X	X	X	X	
4																	
5	019-1603	↓	12:30	↓	↓	11	X	X	X	X	X	X	X	X	X	X	
6	CG-081225-002	—	—	W	1	2	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Taylar Brown Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: Taylar Brown Date: 8/29/25 Time: 10:00 Received by:

Relinquished by: Date: Time: Received by (Laboratory): 8/29/25 @ 11:00

Logged by (Laboratory): Date: Time: Checked by (Laboratory):

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.
54099	3.0
SH34	4.0

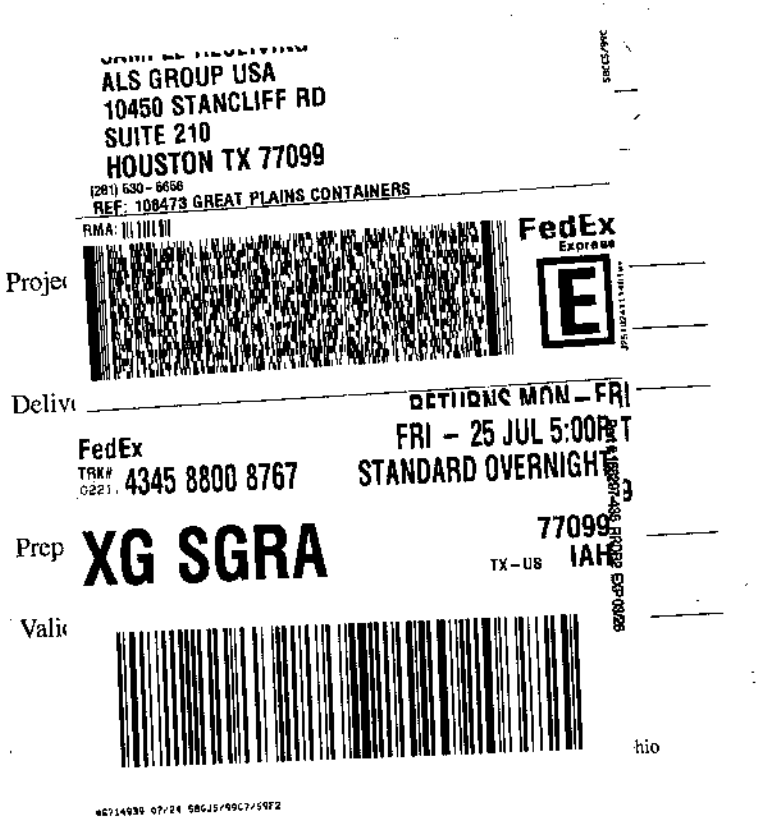
QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER



RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 26, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25090780**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 16 sample(s) on Sep 17, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch
Project Manager

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25090780

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25090780-01	MW-1-200	Water		15-Sep-2025 15:50	17-Sep-2025 13:23	☐
HS25090780-02	FB-091525	Water		15-Sep-2025 16:30	17-Sep-2025 13:23	☐
HS25090780-03	FB-091625	Water		16-Sep-2025 08:30	17-Sep-2025 13:23	☐
HS25090780-04	MW-1-500	Water		16-Sep-2025 08:40	17-Sep-2025 13:23	☐
HS25090780-05	MW-1-700	Water		16-Sep-2025 09:50	17-Sep-2025 13:23	☐
HS25090780-06	019-995	Water		16-Sep-2025 10:45	17-Sep-2025 13:23	☐
HS25090780-07	019-582	Water		16-Sep-2025 11:00	17-Sep-2025 13:23	☐
HS25090780-08	019-1055	Water		16-Sep-2025 12:30	17-Sep-2025 13:23	☐
HS25090780-09	Cottages	Water		16-Sep-2025 12:45	17-Sep-2025 13:23	☐
HS25090780-10	MW-2-500	Water		16-Sep-2025 14:30	17-Sep-2025 13:23	☐
HS25090780-11	GW-DUP	Water		16-Sep-2025 00:00	17-Sep-2025 13:23	☐
HS25090780-12	GW-RINSATE	Water		16-Sep-2025 07:45	17-Sep-2025 13:23	☐
HS25090780-13	CG-081225-320	Water	CG-081225-320	16-Sep-2025 00:00	17-Sep-2025 13:23	☐
HS25090780-14	CG-081225-325	Water	CG-081225-325	16-Sep-2025 00:00	17-Sep-2025 13:23	☐
HS25090780-15	CG-081225-329	Water	CG-081225-329	16-Sep-2025 00:00	17-Sep-2025 13:23	☐
HS25090780-16	CG-081225-346	Water	CG-081225-346	16-Sep-2025 00:00	17-Sep-2025 13:23	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25090780

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GC Semivolatiles by Method MA EPH

Batch ID: 233136

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R522653

Sample ID: HS25090865-07MS

• MS and MSD are for an unrelated sample

Batch ID: R522649

Sample ID: HS25090865-07MS

• MS and MSD are for an unrelated sample

GCMS Volatiles by Method SW8260

Batch ID: R522321

Sample ID: LCS-250922

• Not enough sample vials are received to perform MS and MSD. LCS and LCSD are provided to meet QC requirements.

Batch ID: R522320

Sample ID: LCS-250922

• Not enough sample vials are received to perform MS and MSD. LCS and LCSD are provided to meet QC requirements.

Metals by Method SW6020A

Batch ID: 233145

Sample ID: MW-1-200 (HS25090780-01MS)

• The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Barium, Sodium.

Metals by Method SW7470A

Batch ID: 233103

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25090780

WetChemistry by Method SM4500H+ B

Batch ID: R522128

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R522272

Sample ID: HS25090868-01MSD

• MS and MSD are for an unrelated sample (Chloride)

Batch ID: R522244

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R522142,R522180

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R522127

Sample ID: MW-1-200 (HS25090780-01DUP)

• Total Alkalinity is within our RPD criteria.

The RPD between the sample and its duplicate was outside the control limit. (Alkalinity, Carbonate (As CaCO3))

WetChemistry by Method E376.1

Batch ID: R522100,R522341

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: R522099,R522319

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 15-Sep-2025 15:50

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 18:24
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 18:24
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 18:24
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 18:24
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 18:24
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 18:24
Surr: 1,2-Dichloroethane-d4	*115*			*70-126*	*%REC*	*1*	*22-Sep-2025 18:24*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*22-Sep-2025 18:24*
Surr: Dibromofluoromethane	*106*			*77-123*	*%REC*	*1*	*22-Sep-2025 18:24*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*22-Sep-2025 18:24*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Sep-2025 22:06
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Sep-2025 22:06
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Sep-2025 22:06
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.8*			*70-130*	*%REC*	*1*	*24-Sep-2025 22:06*
Surr: 2,5-Dibromotoluene (Aromatic)	*90.3*			*70-130*	*%REC*	*1*	*24-Sep-2025 22:06*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:30
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:30
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:30
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:30
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:30
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:30
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:30
Surr: 1-Chlorooctadecane	*73.7*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:30*
Surr: 2-Bromonaphthalene	*102*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:30*
Surr: 2-Fluorobiphenyl	*97.7*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:30*
Surr: o-Terphenyl	*89.2*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:30*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-200
Collection Date: 15-Sep-2025 15:50

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.00825**		**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 10:42
Barium	**0.288**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 10:42
Calcium	**19.6**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 10:42
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 10:42
Iron	**0.184**	J	**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 10:42
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 10:42
Magnesium	**9.96**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 10:42
Manganese	**0.0549**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 10:42
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 10:42
Potassium	**2.09**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 10:42
Sodium	**100**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 10:42
Strontium	**0.277**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 10:42
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 10:42
Zinc	U		0.00300	0.0100	mg/L	1	21-Sep-2025 10:42
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:24
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**338**		**3.00**	**10.0**	**mg/L**	1	19-Sep-2025 09:20
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**256**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 20:28
Alkalinity, Carbonate (As CaCO3)	**12.4**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 20:28
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**8.39**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 20:28
Temp Deg C @pH	**21.5**	H	**0**	**0**	**°C**	1	18-Sep-2025 20:28
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**0.0742**	J	**0.0300**	**0.100**	**mg/L**	1	20-Sep-2025 14:57
Chloride	**36.5**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 14:57
Sulfate	U		0.200	0.500	mg/L	1	20-Sep-2025 14:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091525
Collection Date: 15-Sep-2025 16:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 18:44
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 18:44
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 18:44
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 18:44
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 18:44
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 18:44
Surr: 1,2-Dichloroethane-d4	*115*			*70-126*	*%REC*	*1*	*22-Sep-2025 18:44*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*22-Sep-2025 18:44*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*22-Sep-2025 18:44*
Surr: Toluene-d8	*98.1*			*82-127*	*%REC*	*1*	*22-Sep-2025 18:44*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Sep-2025 19:31
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Sep-2025 19:31
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Sep-2025 19:31
Surr: 2,5-Dibromotoluene (Aliphatic)	*106*			*70-130*	*%REC*	*1*	*24-Sep-2025 19:31*
Surr: 2,5-Dibromotoluene (Aromatic)	*99.4*			*70-130*	*%REC*	*1*	*24-Sep-2025 19:31*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:59
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:59
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:59
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:59
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:59
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:59
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 05:59
Surr: 1-Chlorooctadecane	*62.8*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:59*
Surr: 2-Bromonaphthalene	*97.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:59*
Surr: 2-Fluorobiphenyl	*92.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:59*
Surr: o-Terphenyl	*77.1*			*40-140*	*%REC*	*1*	*21-Sep-2025 05:59*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091525
Collection Date: 15-Sep-2025 16:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	21-Sep-2025 10:50
Barium	U		0.000750	0.00500	mg/L	1	21-Sep-2025 10:50
Calcium	U		0.120	0.500	mg/L	1	21-Sep-2025 10:50
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 10:50
Iron	U		0.0600	0.200	mg/L	1	21-Sep-2025 10:50
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 10:50
Magnesium	U		0.0408	0.200	mg/L	1	21-Sep-2025 10:50
Manganese	U		0.00190	0.00500	mg/L	1	21-Sep-2025 10:50
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 10:50
Potassium	U		0.0869	0.500	mg/L	1	21-Sep-2025 10:50
Sodium	U		0.130	0.500	mg/L	1	21-Sep-2025 10:50
Strontium	U		0.000300	0.00500	mg/L	1	21-Sep-2025 10:50
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 10:50
Zinc	U		0.00300	0.0100	mg/L	1	21-Sep-2025 10:50
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:29
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	19-Sep-2025 09:20
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 20:38
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 20:38
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**5.23**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 20:38
Temp Deg C @pH	**21.4**	H	**0**	**0**	**°C**	1	18-Sep-2025 20:38
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**0.109**		**0.0300**	**0.100**	**mg/L**	1	20-Sep-2025 15:25
Chloride	**0.606**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 15:25
Sulfate	**0.544**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 15:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091625
Collection Date: 16-Sep-2025 08:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 19:05
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 19:05
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 19:05
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 19:05
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 19:05
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 19:05
Surr: 1,2-Dichloroethane-d4	*118*			*70-126*	*%REC*	*1*	*22-Sep-2025 19:05*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*22-Sep-2025 19:05*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*22-Sep-2025 19:05*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*22-Sep-2025 19:05*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Sep-2025 20:09
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Sep-2025 20:09
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Sep-2025 20:09
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.2*			*70-130*	*%REC*	*1*	*24-Sep-2025 20:09*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.1*			*70-130*	*%REC*	*1*	*24-Sep-2025 20:09*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:28
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:28
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:28
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:28
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:28
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:28
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:28
Surr: 1-Chlorooctadecane	*69.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:28*
Surr: 2-Bromonaphthalene	*104*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:28*
Surr: 2-Fluorobiphenyl	*99.2*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:28*
Surr: o-Terphenyl	*84.2*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:28*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091625
Collection Date: 16-Sep-2025 08:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	21-Sep-2025 10:58
Barium	U		0.000750	0.00500	mg/L	1	21-Sep-2025 10:58
Calcium	U		0.120	0.500	mg/L	1	21-Sep-2025 10:58
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 10:58
Iron	U		0.0600	0.200	mg/L	1	21-Sep-2025 10:58
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 10:58
Magnesium	U		0.0408	0.200	mg/L	1	21-Sep-2025 10:58
Manganese	U		0.00190	0.00500	mg/L	1	21-Sep-2025 10:58
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 10:58
Potassium	U		0.0869	0.500	mg/L	1	21-Sep-2025 10:58
Sodium	U		0.130	0.500	mg/L	1	21-Sep-2025 10:58
Strontium	U		0.000300	0.00500	mg/L	1	21-Sep-2025 10:58
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 10:58
Zinc	**0.00574**	J	**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 10:58
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:30
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 20:43
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 20:43
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**5.20**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 20:43
Temp Deg C @pH	**21.4**	H	**0**	**0**	**°C**	1	18-Sep-2025 20:43
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	20-Sep-2025 15:35
Chloride	**0.212**	J	**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 15:35
Sulfate	**0.246**	J	**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 15:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 16-Sep-2025 08:40

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 19:26
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 19:26
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 19:26
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 19:26
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 19:26
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 19:26
Surr: 1,2-Dichloroethane-d4	*120*			*70-126*	*%REC*	*1*	*22-Sep-2025 19:26*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*22-Sep-2025 19:26*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*22-Sep-2025 19:26*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*22-Sep-2025 19:26*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Sep-2025 22:44
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Sep-2025 22:44
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Sep-2025 22:44
Surr: 2,5-Dibromotoluene (Aliphatic)	*112*			*70-130*	*%REC*	*1*	*24-Sep-2025 22:44*
Surr: 2,5-Dibromotoluene (Aromatic)	*106*			*70-130*	*%REC*	*1*	*24-Sep-2025 22:44*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:57
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:57
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:57
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:57
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:57
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:57
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 06:57
Surr: 1-Chlorooctadecane	*75.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:57*
Surr: 2-Bromonaphthalene	*87.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:57*
Surr: 2-Fluorobiphenyl	*94.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:57*
Surr: o-Terphenyl	*87.8*			*40-140*	*%REC*	*1*	*21-Sep-2025 06:57*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-500
Collection Date: 16-Sep-2025 08:40

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.000545**	J	**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 11:00
Barium	**0.211**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:00
Calcium	**12.7**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:00
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:00
Iron	**0.792**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:00
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:00
Magnesium	**5.14**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:00
Manganese	**0.0396**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:00
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 11:00
Potassium	**7.96**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:00
Sodium	**48.4**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:00
Strontium	**0.258**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:00
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 11:00
Zinc	**0.00955**	J	**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:00
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:32
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**148**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**129**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 20:48
Alkalinity, Carbonate (As CaCO3)	**9.60**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 20:48
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**8.58**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 20:48
Temp Deg C @pH	**21.5**	H	**0**	**0**	**°C**	1	18-Sep-2025 20:48
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	20-Sep-2025 15:44
Chloride	**21.1**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 15:44
Sulfate	**0.251**	J	**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 15:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 16-Sep-2025 09:50

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 19:48
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 19:48
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 19:48
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 19:48
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 19:48
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 19:48
Surr: 1,2-Dichloroethane-d4	*122*			*70-126*	*%REC*	*1*	*22-Sep-2025 19:48*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*22-Sep-2025 19:48*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*22-Sep-2025 19:48*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*22-Sep-2025 19:48*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Sep-2025 23:23
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Sep-2025 23:23
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Sep-2025 23:23
Surr: 2,5-Dibromotoluene (Aliphatic)	*94.7*			*70-130*	*%REC*	*1*	*24-Sep-2025 23:23*
Surr: 2,5-Dibromotoluene (Aromatic)	*89.3*			*70-130*	*%REC*	*1*	*24-Sep-2025 23:23*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 07:26
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 07:26
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 07:26
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 07:26
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 07:26
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 07:26
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 07:26
Surr: 1-Chlorooctadecane	*60.5*			*40-140*	*%REC*	*1*	*21-Sep-2025 07:26*
Surr: 2-Bromonaphthalene	*106*			*40-140*	*%REC*	*1*	*21-Sep-2025 07:26*
Surr: 2-Fluorobiphenyl	*101*			*40-140*	*%REC*	*1*	*21-Sep-2025 07:26*
Surr: o-Terphenyl	*82.7*			*40-140*	*%REC*	*1*	*21-Sep-2025 07:26*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-1-700
Collection Date: 16-Sep-2025 09:50

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.000651**	J	**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 11:02
Barium	**0.0550**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:02
Calcium	**1.70**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:02
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:02
Iron	**0.419**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:02
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:02
Magnesium	**0.345**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:02
Manganese	**0.00505**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:02
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 11:02
Potassium	**2.69**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:02
Sodium	**181**		**2.60**	**10.0**	**mg/L**	20	21-Sep-2025 12:46
Strontium	**0.0578**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:02
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 11:02
Zinc	**0.00574**	J	**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:02
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:34
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**426**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**216**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 20:54
Alkalinity, Carbonate (As CaCO3)	**74.0**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 20:54
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**9.39**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 20:54
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	18-Sep-2025 20:54
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	20-Sep-2025 15:54
Chloride	**101**		**0.400**	**1.00**	**mg/L**	2	22-Sep-2025 15:18
Sulfate	**0.278**	J	**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 15:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 16-Sep-2025 10:45

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 20:08
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 20:08
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 20:08
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 20:08
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 20:08
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 20:08
Surr: 1,2-Dichloroethane-d4	*117*			*70-126*	*%REC*	*1*	*22-Sep-2025 20:08*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*22-Sep-2025 20:08*
Surr: Dibromofluoromethane	*106*			*77-123*	*%REC*	*1*	*22-Sep-2025 20:08*
Surr: Toluene-d8	*99.1*			*82-127*	*%REC*	*1*	*22-Sep-2025 20:08*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 01:19
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 01:19
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 01:19
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*25-Sep-2025 01:19*
Surr: 2,5-Dibromotoluene (Aromatic)	*95.2*			*70-130*	*%REC*	*1*	*25-Sep-2025 01:19*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 08:53
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 08:53
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 08:53
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 08:53
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 08:53
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 08:53
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 08:53
Surr: 1-Chlorooctadecane	*64.5*			*40-140*	*%REC*	*1*	*21-Sep-2025 08:53*
Surr: 2-Bromonaphthalene	*104*			*40-140*	*%REC*	*1*	*21-Sep-2025 08:53*
Surr: 2-Fluorobiphenyl	*99.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 08:53*
Surr: o-Terphenyl	*81.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 08:53*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-995
Collection Date: 16-Sep-2025 10:45

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.000661**	J	**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 11:04
Barium	**0.234**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:04
Calcium	**26.4**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:04
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:04
Iron	**3.80**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:04
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:04
Magnesium	**8.19**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:04
Manganese	**0.388**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:04
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 11:04
Potassium	**2.69**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:04
Sodium	**26.2**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:04
Strontium	**0.225**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:04
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 11:04
Zinc	U		0.00300	0.0100	mg/L	1	21-Sep-2025 11:04
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:36
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**190**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**114**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 20:59
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 20:59
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.28**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 20:59
Temp Deg C @pH	**21.9**	H	**0**	**0**	**°C**	1	18-Sep-2025 20:59
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	20-Sep-2025 16:03
Chloride	**23.6**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:03
Sulfate	**3.10**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 16-Sep-2025 11:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	23-Sep-2025 01:42
Ethylbenzene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 01:42
m,p-Xylene		U	0.00061	0.0040	mg/L	1	23-Sep-2025 01:42
o-Xylene		U	0.00031	0.0020	mg/L	1	23-Sep-2025 01:42
Toluene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 01:42
Xylenes, Total		U	0.00092	0.0060	mg/L	1	23-Sep-2025 01:42
Surr: 1,2-Dichloroethane-d4	*117*			*70-126*	*%REC*	*1*	*23-Sep-2025 01:42*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*23-Sep-2025 01:42*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*23-Sep-2025 01:42*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*23-Sep-2025 01:42*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 01:58
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 01:58
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 01:58
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.5*			*70-130*	*%REC*	*1*	*25-Sep-2025 01:58*
Surr: 2,5-Dibromotoluene (Aromatic)	*86.6*			*70-130*	*%REC*	*1*	*25-Sep-2025 01:58*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:22
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:22
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:22
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:22
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:22
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:22
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:22
Surr: 1-Chlorooctadecane	*68.2*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:22*
Surr: 2-Bromonaphthalene	*92.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:22*
Surr: 2-Fluorobiphenyl	*89.2*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:22*
Surr: o-Terphenyl	*75.4*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-582
Collection Date: 16-Sep-2025 11:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.000629**	J	**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 11:06
Barium	**0.221**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:06
Calcium	**22.3**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:06
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:06
Iron	**3.28**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:06
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:06
Magnesium	**7.02**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:06
Manganese	**0.377**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:06
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 11:06
Potassium	**2.43**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:06
Sodium	**23.7**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:06
Strontium	**0.201**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:06
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 11:06
Zinc	**0.00647**	J	**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:06
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:37
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**192**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**111**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 21:17
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 21:17
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.25**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 21:17
Temp Deg C @pH	**21.9**	H	**0**	**0**	**°C**	1	18-Sep-2025 21:17
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	20-Sep-2025 16:31
Chloride	**22.7**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:31
Sulfate	**3.27**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 16-Sep-2025 12:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	23-Sep-2025 02:03
Ethylbenzene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 02:03
m,p-Xylene		U	0.00061	0.0040	mg/L	1	23-Sep-2025 02:03
o-Xylene		U	0.00031	0.0020	mg/L	1	23-Sep-2025 02:03
Toluene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 02:03
Xylenes, Total		U	0.00092	0.0060	mg/L	1	23-Sep-2025 02:03
Surr: 1,2-Dichloroethane-d4	*116*			*70-126*	*%REC*	*1*	*23-Sep-2025 02:03*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*23-Sep-2025 02:03*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*23-Sep-2025 02:03*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*23-Sep-2025 02:03*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 02:36
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 02:36
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 02:36
Surr: 2,5-Dibromotoluene (Aliphatic)	*106*			*70-130*	*%REC*	*1*	*25-Sep-2025 02:36*
Surr: 2,5-Dibromotoluene (Aromatic)	*99.8*			*70-130*	*%REC*	*1*	*25-Sep-2025 02:36*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:50
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:50
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:50
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:50
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:50
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:50
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 09:50
Surr: 1-Chlorooctadecane	*72.8*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:50*
Surr: 2-Bromonaphthalene	*96.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:50*
Surr: 2-Fluorobiphenyl	*92.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:50*
Surr: o-Terphenyl	*84.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 09:50*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-1055
Collection Date: 16-Sep-2025 12:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.000577**	J	**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 11:08
Barium	**0.217**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:08
Calcium	**24.3**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:08
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:08
Iron	**1.34**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:08
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:08
Magnesium	**7.60**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:08
Manganese	**0.373**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:08
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 11:08
Potassium	**2.56**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:08
Sodium	**25.8**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:08
Strontium	**0.219**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:08
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 11:08
Zinc	**0.00565**	J	**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:08
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:39
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**188**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**115**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 21:22
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 21:22
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.34**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 21:22
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	18-Sep-2025 21:22
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	20-Sep-2025 16:40
Chloride	**25.1**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:40
Sulfate	**2.85**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 16-Sep-2025 12:45

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	23-Sep-2025 02:23
Ethylbenzene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 02:23
m,p-Xylene		U	0.00061	0.0040	mg/L	1	23-Sep-2025 02:23
o-Xylene		U	0.00031	0.0020	mg/L	1	23-Sep-2025 02:23
Toluene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 02:23
Xylenes, Total		U	0.00092	0.0060	mg/L	1	23-Sep-2025 02:23
Surr: 1,2-Dichloroethane-d4	*115*			*70-126*	*%REC*	*1*	*23-Sep-2025 02:23*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*23-Sep-2025 02:23*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*23-Sep-2025 02:23*
Surr: Toluene-d8	*99.0*			*82-127*	*%REC*	*1*	*23-Sep-2025 02:23*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 03:15
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 03:15
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 03:15
Surr: 2,5-Dibromotoluene (Aliphatic)	*104*			*70-130*	*%REC*	*1*	*25-Sep-2025 03:15*
Surr: 2,5-Dibromotoluene (Aromatic)	*98.0*			*70-130*	*%REC*	*1*	*25-Sep-2025 03:15*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 10:19
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 10:19
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 10:19
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 10:19
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 10:19
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 10:19
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 10:19
Surr: 1-Chlorooctadecane	*68.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:19*
Surr: 2-Bromonaphthalene	*103*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:19*
Surr: 2-Fluorobiphenyl	*98.3*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:19*
Surr: o-Terphenyl	*85.4*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:19*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: Cottages
Collection Date: 16-Sep-2025 12:45

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	21-Sep-2025 11:10
Barium	**0.205**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:10
Calcium	**14.9**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:10
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:10
Iron	**8.00**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:10
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:10
Magnesium	**4.11**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:10
Manganese	**0.240**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:10
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 11:10
Potassium	**2.30**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:10
Sodium	**75.1**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:10
Strontium	**0.171**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:10
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 11:10
Zinc	**0.273**		**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:10
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:44
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	18-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**230**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**142**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 21:28
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 21:28
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	18-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.37**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 21:28
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	18-Sep-2025 21:28
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**0.0978**	J	**0.0300**	**0.100**	**mg/L**	1	20-Sep-2025 16:49
Chloride	**54.1**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:49
Sulfate	U		0.200	0.500	mg/L	1	20-Sep-2025 16:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 16-Sep-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	23-Sep-2025 02:44
Ethylbenzene	U		0.00033	0.0020	mg/L	1	23-Sep-2025 02:44
m,p-Xylene	**0.00073**	J	**0.00061**	**0.0040**	**mg/L**	1	23-Sep-2025 02:44
o-Xylene	**0.00076**	J	**0.00031**	**0.0020**	**mg/L**	1	23-Sep-2025 02:44
Toluene	**0.00050**	J	**0.00033**	**0.0020**	**mg/L**	1	23-Sep-2025 02:44
Xylenes, Total	**0.0015**	J	**0.00092**	**0.0060**	**mg/L**	1	23-Sep-2025 02:44
Surr: 1,2-Dichloroethane-d4	*116*			*70-126*	*%REC*	*1*	*23-Sep-2025 02:44*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*23-Sep-2025 02:44*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*23-Sep-2025 02:44*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*23-Sep-2025 02:44*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	U		0.00180	0.00500	mg/L	1	25-Sep-2025 03:54
Aliphatics >C8 - C10	U		0.000400	0.00500	mg/L	1	25-Sep-2025 03:54
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	25-Sep-2025 03:54
Surr: 2,5-Dibromotoluene (Aliphatic)	*104*			*70-130*	*%REC*	*1*	*25-Sep-2025 03:54*
Surr: 2,5-Dibromotoluene (Aromatic)	*97.9*			*70-130*	*%REC*	*1*	*25-Sep-2025 03:54*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	21-Sep-2025 10:48
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	21-Sep-2025 10:48
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	21-Sep-2025 10:48
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	21-Sep-2025 10:48
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	21-Sep-2025 10:48
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	21-Sep-2025 10:48
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	21-Sep-2025 10:48
Surr: 1-Chlorooctadecane	*69.5*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:48*
Surr: 2-Bromonaphthalene	*89.5*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:48*
Surr: 2-Fluorobiphenyl	*85.4*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:48*
Surr: o-Terphenyl	*74.1*			*40-140*	*%REC*	*1*	*21-Sep-2025 10:48*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-500
Collection Date: 16-Sep-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.00121**	J	**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 11:12
Barium	**0.110**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:12
Calcium	**8.10**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:12
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:12
Iron	**4.30**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:12
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:12
Magnesium	**1.56**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:12
Manganese	**0.103**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:12
Nickel	**0.00157**	J	**0.00130**	**0.00500**	**mg/L**	1	21-Sep-2025 11:12
Potassium	**56.1**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:12
Sodium	**71.1**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:12
Strontium	**0.547**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:12
Vanadium	**0.00160**	J	**0.000600**	**0.00500**	**mg/L**	1	21-Sep-2025 11:12
Zinc	**0.0131**		**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:12
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:46
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**260**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**5.50**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 21:33
Alkalinity, Carbonate (As CaCO3)	**189**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 21:33
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**10.6**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 21:33
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	18-Sep-2025 21:33
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**0.0725**	J	**0.0300**	**0.100**	**mg/L**	1	20-Sep-2025 16:58
Chloride	**36.8**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:58
Sulfate	**1.49**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 16:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 16-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	23-Sep-2025 03:05
Ethylbenzene	U		0.00033	0.0020	mg/L	1	23-Sep-2025 03:05
m,p-Xylene	**0.00078**	J	**0.00061**	**0.0040**	**mg/L**	1	23-Sep-2025 03:05
o-Xylene	**0.00077**	J	**0.00031**	**0.0020**	**mg/L**	1	23-Sep-2025 03:05
Toluene	**0.00051**	J	**0.00033**	**0.0020**	**mg/L**	1	23-Sep-2025 03:05
Xylenes, Total	**0.0015**	J	**0.00092**	**0.0060**	**mg/L**	1	23-Sep-2025 03:05
Surr: 1,2-Dichloroethane-d4	*113*			*70-126*	*%REC*	*1*	*23-Sep-2025 03:05*
Surr: 4-Bromofluorobenzene	*104*			*77-113*	*%REC*	*1*	*23-Sep-2025 03:05*
Surr: Dibromofluoromethane	*106*			*77-123*	*%REC*	*1*	*23-Sep-2025 03:05*
Surr: Toluene-d8	*98.2*			*82-127*	*%REC*	*1*	*23-Sep-2025 03:05*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	U		0.00180	0.00500	mg/L	1	25-Sep-2025 04:33
Aliphatics >C8 - C10	U		0.000400	0.00500	mg/L	1	25-Sep-2025 04:33
Aromatics >C8 - C10	U		0.000600	0.0200	mg/L	1	25-Sep-2025 04:33
Surr: 2,5-Dibromotoluene (Aliphatic)	*112*			*70-130*	*%REC*	*1*	*25-Sep-2025 04:33*
Surr: 2,5-Dibromotoluene (Aromatic)	*105*			*70-130*	*%REC*	*1*	*25-Sep-2025 04:33*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	21-Sep-2025 11:17
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	21-Sep-2025 11:17
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	21-Sep-2025 11:17
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	21-Sep-2025 11:17
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	21-Sep-2025 11:17
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	21-Sep-2025 11:17
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	21-Sep-2025 11:17
Surr: 1-Chlorooctadecane	*74.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:17*
Surr: 2-Bromonaphthalene	*99.5*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:17*
Surr: 2-Fluorobiphenyl	*94.4*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:17*
Surr: o-Terphenyl	*83.2*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:17*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-DUP
Collection Date: 16-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	**0.00130**	J	**0.000510**	**0.00200**	**mg/L**	1	21-Sep-2025 11:14
Barium	**0.114**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:14
Calcium	**8.23**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:14
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:14
Iron	**4.91**		**0.0600**	**0.200**	**mg/L**	1	21-Sep-2025 11:14
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:14
Magnesium	**1.55**		**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:14
Manganese	**0.107**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:14
Nickel	**0.00167**	J	**0.00130**	**0.00500**	**mg/L**	1	21-Sep-2025 11:14
Potassium	**55.9**		**0.0869**	**0.500**	**mg/L**	1	21-Sep-2025 11:14
Sodium	**72.2**		**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:14
Strontium	**0.574**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:14
Vanadium	**0.00185**	J	**0.000600**	**0.00500**	**mg/L**	1	21-Sep-2025 11:14
Zinc	**0.0145**		**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:14
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:48
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.44**		**0.500**	**1.00**	**mg/L**	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**266**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**6.80**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 21:38
Alkalinity, Carbonate (As CaCO3)	**187**		**1.20**	**5.00**	**mg/L**	1	18-Sep-2025 21:38
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.36**	J	**0.920**	**5.00**	**mg/L**	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**10.6**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 21:38
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	18-Sep-2025 21:38
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**0.0766**	J	**0.0300**	**0.100**	**mg/L**	1	20-Sep-2025 17:07
Chloride	**36.9**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 17:07
Sulfate	**1.73**		**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 17:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-RINSATE
Collection Date: 16-Sep-2025 07:45

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	23-Sep-2025 03:26
Ethylbenzene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 03:26
m,p-Xylene		U	0.00061	0.0040	mg/L	1	23-Sep-2025 03:26
o-Xylene		U	0.00031	0.0020	mg/L	1	23-Sep-2025 03:26
Toluene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 03:26
Xylenes, Total		U	0.00092	0.0060	mg/L	1	23-Sep-2025 03:26
Surr: 1,2-Dichloroethane-d4	*115*			*70-126*	*%REC*	*1*	*23-Sep-2025 03:26*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*23-Sep-2025 03:26*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*23-Sep-2025 03:26*
Surr: Toluene-d8	*97.8*			*82-127*	*%REC*	*1*	*23-Sep-2025 03:26*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 05:11
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 05:11
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 05:11
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*25-Sep-2025 05:11*
Surr: 2,5-Dibromotoluene (Aromatic)	*94.7*			*70-130*	*%REC*	*1*	*25-Sep-2025 05:11*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 11:46
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 11:46
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 11:46
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 11:46
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 11:46
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 11:46
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 11:46
Surr: 1-Chlorooctadecane	*67.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:46*
Surr: 2-Bromonaphthalene	*91.1*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:46*
Surr: 2-Fluorobiphenyl	*87.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:46*
Surr: o-Terphenyl	*80.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 11:46*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: GW-RINSATE
Collection Date: 16-Sep-2025 07:45

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 19-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	21-Sep-2025 11:26
Barium	**0.00595**		**0.000750**	**0.00500**	**mg/L**	1	21-Sep-2025 11:26
Calcium	**0.587**		**0.120**	**0.500**	**mg/L**	1	21-Sep-2025 11:26
Chromium	U		0.00173	0.00500	mg/L	1	21-Sep-2025 11:26
Iron	U		0.0600	0.200	mg/L	1	21-Sep-2025 11:26
Lead	U		0.000470	0.00200	mg/L	1	21-Sep-2025 11:26
Magnesium	**0.0763**	J	**0.0408**	**0.200**	**mg/L**	1	21-Sep-2025 11:26
Manganese	**0.00679**		**0.00190**	**0.00500**	**mg/L**	1	21-Sep-2025 11:26
Nickel	U		0.00130	0.00500	mg/L	1	21-Sep-2025 11:26
Potassium	U		0.0869	0.500	mg/L	1	21-Sep-2025 11:26
Sodium	**0.314**	J	**0.130**	**0.500**	**mg/L**	1	21-Sep-2025 11:26
Strontium	**0.0158**		**0.000300**	**0.00500**	**mg/L**	1	21-Sep-2025 11:26
Vanadium	U		0.000600	0.00500	mg/L	1	21-Sep-2025 11:26
Zinc	**0.0209**		**0.00300**	**0.0100**	**mg/L**	1	21-Sep-2025 11:26
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 19-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	19-Sep-2025 12:49
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**8.00**	J	**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 21:42
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	18-Sep-2025 21:42
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**6.43**	H	**0.100**	**1.00**	**pH Units**	1	18-Sep-2025 21:42
Temp Deg C @pH	**21.9**	H	**0**	**0**	**°C**	1	18-Sep-2025 21:42
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	20-Sep-2025 17:17
Chloride	**0.318**	J	**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 17:17
Sulfate	**0.369**	J	**0.200**	**0.500**	**mg/L**	1	20-Sep-2025 17:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-320
Collection Date: 16-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 22:55
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 22:55
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 22:55
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 22:55
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 22:55
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 22:55
Surr: 1,2-Dichloroethane-d4	*115*			*70-126*	*%REC*	*1*	*22-Sep-2025 22:55*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*22-Sep-2025 22:55*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*22-Sep-2025 22:55*
Surr: Toluene-d8	*99.1*			*82-127*	*%REC*	*1*	*22-Sep-2025 22:55*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-325
Collection Date: 16-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 23:16
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 23:16
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 23:16
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 23:16
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 23:16
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 23:16
Surr: 1,2-Dichloroethane-d4	*119*			*70-126*	*%REC*	*1*	*22-Sep-2025 23:16*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*22-Sep-2025 23:16*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*22-Sep-2025 23:16*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*22-Sep-2025 23:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-329
Collection Date: 16-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 23:37
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 23:37
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 23:37
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 23:37
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 23:37
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 23:37
Surr: 1,2-Dichloroethane-d4	*118*			*70-126*	*%REC*	*1*	*22-Sep-2025 23:37*
Surr: 4-Bromofluorobenzene	*108*			*77-113*	*%REC*	*1*	*22-Sep-2025 23:37*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*22-Sep-2025 23:37*
Surr: Toluene-d8	*99.3*			*82-127*	*%REC*	*1*	*22-Sep-2025 23:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-346
Collection Date: 16-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090780
Lab ID:HS25090780-16
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	22-Sep-2025 23:58
Ethylbenzene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 23:58
m,p-Xylene		U	0.00061	0.0040	mg/L	1	22-Sep-2025 23:58
o-Xylene		U	0.00031	0.0020	mg/L	1	22-Sep-2025 23:58
Toluene		U	0.00033	0.0020	mg/L	1	22-Sep-2025 23:58
Xylenes, Total		U	0.00092	0.0060	mg/L	1	22-Sep-2025 23:58
Surr: 1,2-Dichloroethane-d4	*117*			*70-126*	*%REC*	*1*	*22-Sep-2025 23:58*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*22-Sep-2025 23:58*
Surr: Dibromofluoromethane	*107*			*77-123*	*%REC*	*1*	*22-Sep-2025 23:58*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*22-Sep-2025 23:58*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

Batch ID: 233103 **Start Date:** 19 Sep 2025 07:00 **End Date:** 19 Sep 2025 07:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25090780-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 233136 **Start Date:** 19 Sep 2025 13:13 **End Date:** 19 Sep 2025 13:13
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25090780-01		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-02		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-03		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-04		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-05		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-06		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-07		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-08		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-09		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-10		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-11		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090780-12		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 233145 **Start Date:** 19 Sep 2025 08:00 **End Date:** 19 Sep 2025 08:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25090780-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090780-12		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 233103 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50		19 Sep 2025 07:00	19 Sep 2025 12:24	1
HS25090780-02	FB-091525	15 Sep 2025 16:30		19 Sep 2025 07:00	19 Sep 2025 12:29	1
HS25090780-03	FB-091625	16 Sep 2025 08:30		19 Sep 2025 07:00	19 Sep 2025 12:30	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40		19 Sep 2025 07:00	19 Sep 2025 12:32	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50		19 Sep 2025 07:00	19 Sep 2025 12:34	1
HS25090780-06	019-995	16 Sep 2025 10:45		19 Sep 2025 07:00	19 Sep 2025 12:36	1
HS25090780-07	019-582	16 Sep 2025 11:00		19 Sep 2025 07:00	19 Sep 2025 12:37	1
HS25090780-08	019-1055	16 Sep 2025 12:30		19 Sep 2025 07:00	19 Sep 2025 12:39	1
HS25090780-09	Cottages	16 Sep 2025 12:45		19 Sep 2025 07:00	19 Sep 2025 12:44	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30		19 Sep 2025 07:00	19 Sep 2025 12:46	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00		19 Sep 2025 07:00	19 Sep 2025 12:48	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45		19 Sep 2025 07:00	19 Sep 2025 12:49	1
Batch ID: 233136 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50		19 Sep 2025 13:13	21 Sep 2025 05:30	1
HS25090780-01	MW-1-200	15 Sep 2025 15:50		19 Sep 2025 13:13	21 Sep 2025 05:30	1
HS25090780-02	FB-091525	15 Sep 2025 16:30		19 Sep 2025 13:13	21 Sep 2025 05:59	1
HS25090780-02	FB-091525	15 Sep 2025 16:30		19 Sep 2025 13:13	21 Sep 2025 05:59	1
HS25090780-03	FB-091625	16 Sep 2025 08:30		19 Sep 2025 13:13	21 Sep 2025 06:28	1
HS25090780-03	FB-091625	16 Sep 2025 08:30		19 Sep 2025 13:13	21 Sep 2025 06:28	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40		19 Sep 2025 13:13	21 Sep 2025 06:57	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40		19 Sep 2025 13:13	21 Sep 2025 06:57	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50		19 Sep 2025 13:13	21 Sep 2025 07:26	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50		19 Sep 2025 13:13	21 Sep 2025 07:26	1
HS25090780-06	019-995	16 Sep 2025 10:45		19 Sep 2025 13:13	21 Sep 2025 08:53	1
HS25090780-06	019-995	16 Sep 2025 10:45		19 Sep 2025 13:13	21 Sep 2025 08:53	1
HS25090780-07	019-582	16 Sep 2025 11:00		19 Sep 2025 13:13	21 Sep 2025 09:22	1
HS25090780-07	019-582	16 Sep 2025 11:00		19 Sep 2025 13:13	21 Sep 2025 09:22	1
HS25090780-08	019-1055	16 Sep 2025 12:30		19 Sep 2025 13:13	21 Sep 2025 09:50	1
HS25090780-08	019-1055	16 Sep 2025 12:30		19 Sep 2025 13:13	21 Sep 2025 09:50	1
HS25090780-09	Cottages	16 Sep 2025 12:45		19 Sep 2025 13:13	21 Sep 2025 10:19	1
HS25090780-09	Cottages	16 Sep 2025 12:45		19 Sep 2025 13:13	21 Sep 2025 10:19	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30		19 Sep 2025 13:13	21 Sep 2025 10:48	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30		19 Sep 2025 13:13	21 Sep 2025 10:48	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00		19 Sep 2025 13:13	21 Sep 2025 11:17	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00		19 Sep 2025 13:13	21 Sep 2025 11:17	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45		19 Sep 2025 13:13	21 Sep 2025 11:46	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45		19 Sep 2025 13:13	21 Sep 2025 11:46	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 233145 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50		19 Sep 2025 08:00	21 Sep 2025 10:42	1
HS25090780-02	FB-091525	15 Sep 2025 16:30		19 Sep 2025 08:00	21 Sep 2025 10:50	1
HS25090780-03	FB-091625	16 Sep 2025 08:30		19 Sep 2025 08:00	21 Sep 2025 10:58	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40		19 Sep 2025 08:00	21 Sep 2025 11:00	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50		19 Sep 2025 08:00	21 Sep 2025 12:46	20
HS25090780-05	MW-1-700	16 Sep 2025 09:50		19 Sep 2025 08:00	21 Sep 2025 11:02	1
HS25090780-06	019-995	16 Sep 2025 10:45		19 Sep 2025 08:00	21 Sep 2025 11:04	1
HS25090780-07	019-582	16 Sep 2025 11:00		19 Sep 2025 08:00	21 Sep 2025 11:06	1
HS25090780-08	019-1055	16 Sep 2025 12:30		19 Sep 2025 08:00	21 Sep 2025 11:08	1
HS25090780-09	Cottages	16 Sep 2025 12:45		19 Sep 2025 08:00	21 Sep 2025 11:10	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30		19 Sep 2025 08:00	21 Sep 2025 11:12	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00		19 Sep 2025 08:00	21 Sep 2025 11:14	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45		19 Sep 2025 08:00	21 Sep 2025 11:26	1
Batch ID: R522099 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			18 Sep 2025 16:00	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			18 Sep 2025 16:00	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			18 Sep 2025 16:00	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			18 Sep 2025 16:00	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			18 Sep 2025 16:00	1
HS25090780-06	019-995	16 Sep 2025 10:45			18 Sep 2025 16:00	1
HS25090780-07	019-582	16 Sep 2025 11:00			18 Sep 2025 16:00	1
HS25090780-08	019-1055	16 Sep 2025 12:30			18 Sep 2025 16:00	1
HS25090780-09	Cottages	16 Sep 2025 12:45			18 Sep 2025 16:00	1
Batch ID: R522100 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			18 Sep 2025 16:00	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			18 Sep 2025 16:00	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			18 Sep 2025 16:00	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			18 Sep 2025 16:00	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			18 Sep 2025 16:00	1
HS25090780-06	019-995	16 Sep 2025 10:45			18 Sep 2025 16:00	1
HS25090780-07	019-582	16 Sep 2025 11:00			18 Sep 2025 16:00	1
HS25090780-08	019-1055	16 Sep 2025 12:30			18 Sep 2025 16:00	1
HS25090780-09	Cottages	16 Sep 2025 12:45			18 Sep 2025 16:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R522127 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			18 Sep 2025 20:28	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			18 Sep 2025 20:38	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			18 Sep 2025 20:43	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			18 Sep 2025 20:48	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			18 Sep 2025 20:54	1
HS25090780-06	019-995	16 Sep 2025 10:45			18 Sep 2025 20:59	1
HS25090780-07	019-582	16 Sep 2025 11:00			18 Sep 2025 21:17	1
HS25090780-08	019-1055	16 Sep 2025 12:30			18 Sep 2025 21:22	1
HS25090780-09	Cottages	16 Sep 2025 12:45			18 Sep 2025 21:28	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30			18 Sep 2025 21:33	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			18 Sep 2025 21:38	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			18 Sep 2025 21:42	1
Batch ID: R522128 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			18 Sep 2025 20:28	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			18 Sep 2025 20:38	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			18 Sep 2025 20:43	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			18 Sep 2025 20:48	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			18 Sep 2025 20:54	1
HS25090780-06	019-995	16 Sep 2025 10:45			18 Sep 2025 20:59	1
HS25090780-07	019-582	16 Sep 2025 11:00			18 Sep 2025 21:17	1
HS25090780-08	019-1055	16 Sep 2025 12:30			18 Sep 2025 21:22	1
HS25090780-09	Cottages	16 Sep 2025 12:45			18 Sep 2025 21:28	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30			18 Sep 2025 21:33	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			18 Sep 2025 21:38	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			18 Sep 2025 21:42	1
Batch ID: R522142 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			19 Sep 2025 09:20	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			19 Sep 2025 09:20	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R522180 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25090780-03	FB-091625	16 Sep 2025 08:30			20 Sep 2025 09:00	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			20 Sep 2025 09:00	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			20 Sep 2025 09:00	1
HS25090780-06	019-995	16 Sep 2025 10:45			20 Sep 2025 09:00	1
HS25090780-07	019-582	16 Sep 2025 11:00			20 Sep 2025 09:00	1
HS25090780-08	019-1055	16 Sep 2025 12:30			20 Sep 2025 09:00	1
HS25090780-09	Cottages	16 Sep 2025 12:45			20 Sep 2025 09:00	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30			20 Sep 2025 09:00	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			20 Sep 2025 09:00	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			20 Sep 2025 09:00	1
Batch ID: R522244 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			20 Sep 2025 14:57	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			20 Sep 2025 15:25	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			20 Sep 2025 15:35	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			20 Sep 2025 15:44	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			20 Sep 2025 15:54	1
HS25090780-06	019-995	16 Sep 2025 10:45			20 Sep 2025 16:03	1
HS25090780-07	019-582	16 Sep 2025 11:00			20 Sep 2025 16:31	1
HS25090780-08	019-1055	16 Sep 2025 12:30			20 Sep 2025 16:40	1
HS25090780-09	Cottages	16 Sep 2025 12:45			20 Sep 2025 16:49	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30			20 Sep 2025 16:58	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			20 Sep 2025 17:07	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			20 Sep 2025 17:17	1
Batch ID: R522272 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25090780-05	MW-1-700	16 Sep 2025 09:50			22 Sep 2025 15:18	2
Batch ID: R522319 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25090780-10	MW-2-500	16 Sep 2025 14:30			22 Sep 2025 16:00	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			22 Sep 2025 16:00	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			22 Sep 2025 16:00	1
Batch ID: R522320 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			22 Sep 2025 18:24	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			22 Sep 2025 18:44	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			22 Sep 2025 19:05	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			22 Sep 2025 19:26	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			22 Sep 2025 19:48	1
HS25090780-06	019-995	16 Sep 2025 10:45			22 Sep 2025 20:08	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R522321 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25090780-07	019-582	16 Sep 2025 11:00			23 Sep 2025 01:42	1
HS25090780-08	019-1055	16 Sep 2025 12:30			23 Sep 2025 02:03	1
HS25090780-09	Cottages	16 Sep 2025 12:45			23 Sep 2025 02:23	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30			23 Sep 2025 02:44	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			23 Sep 2025 03:05	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			23 Sep 2025 03:26	1
HS25090780-13	CG-081225-320	16 Sep 2025 00:00			22 Sep 2025 22:55	1
HS25090780-14	CG-081225-325	16 Sep 2025 00:00			22 Sep 2025 23:16	1
HS25090780-15	CG-081225-329	16 Sep 2025 00:00			22 Sep 2025 23:37	1
HS25090780-16	CG-081225-346	16 Sep 2025 00:00			22 Sep 2025 23:58	1
Batch ID: R522341 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25090780-10	MW-2-500	16 Sep 2025 14:30			22 Sep 2025 16:00	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			22 Sep 2025 16:00	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			22 Sep 2025 16:00	1
Batch ID: R522649 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			24 Sep 2025 22:06	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			24 Sep 2025 19:31	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			24 Sep 2025 20:09	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			24 Sep 2025 22:44	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			24 Sep 2025 23:23	1
HS25090780-06	019-995	16 Sep 2025 10:45			25 Sep 2025 01:19	1
HS25090780-07	019-582	16 Sep 2025 11:00			25 Sep 2025 01:58	1
HS25090780-08	019-1055	16 Sep 2025 12:30			25 Sep 2025 02:36	1
HS25090780-09	Cottages	16 Sep 2025 12:45			25 Sep 2025 03:15	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30			25 Sep 2025 03:54	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			25 Sep 2025 04:33	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			25 Sep 2025 05:11	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R522653 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25090780-01	MW-1-200	15 Sep 2025 15:50			24 Sep 2025 22:06	1
HS25090780-02	FB-091525	15 Sep 2025 16:30			24 Sep 2025 19:31	1
HS25090780-03	FB-091625	16 Sep 2025 08:30			24 Sep 2025 20:09	1
HS25090780-04	MW-1-500	16 Sep 2025 08:40			24 Sep 2025 22:44	1
HS25090780-05	MW-1-700	16 Sep 2025 09:50			24 Sep 2025 23:23	1
HS25090780-06	019-995	16 Sep 2025 10:45			25 Sep 2025 01:19	1
HS25090780-07	019-582	16 Sep 2025 11:00			25 Sep 2025 01:58	1
HS25090780-08	019-1055	16 Sep 2025 12:30			25 Sep 2025 02:36	1
HS25090780-09	Cottages	16 Sep 2025 12:45			25 Sep 2025 03:15	1
HS25090780-10	MW-2-500	16 Sep 2025 14:30			25 Sep 2025 03:54	1
HS25090780-11	GW-DUP	16 Sep 2025 00:00			25 Sep 2025 04:33	1
HS25090780-12	GW-RINSATE	16 Sep 2025 07:45			25 Sep 2025 05:11	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: 233136 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:05**
Client ID: Run ID: **FID23_522356** SeqNo: **9045197** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.0276*	*0*	*0.04*	*0*	*69.0*	*40 - 140*				

MBLK Sample ID: **MBLK-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:05**
Client ID: Run ID: **FID-22_522357** SeqNo: **9045226** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.04067*	*0*	*0.04*	*0*	*102*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03919*	*0*	*0.04*	*0*	*98.0*	*40 - 140*				
Surr: o-Terphenyl	*0.03423*	*0*	*0.04*	*0*	*85.6*	*40 - 140*				

LCS Sample ID: **LCS-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:34**
Client ID: Run ID: **FID23_522356** SeqNo: **9045198** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.0464	0.100	0.05	0	92.8	40 - 140				J
Aliphatics >C12 - C16	0.09561	0.100	0.1	0	95.6	40 - 140				J
Aliphatics >C16 - C35	0.3649	0.100	0.4	0	91.2	40 - 140				
Surr: 1-Chlorooctadecane	*0.02643*	*0*	*0.04*	*0*	*66.1*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: 233136 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:34**
Client ID: Run ID: **FID-22_522357** SeqNo: **9045227** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04466	0.100	0.05	0	89.3	40 - 140				J
Aromatics >C12 - C16	0.1717	0.100	0.2	0	85.9	40 - 140				
Aromatics >C16 - C21	0.1364	0.100	0.15	0	91.0	40 - 140				
Aromatics >C21 - C35	0.3941	0.100	0.45	0	87.6	40 - 140				
Surr: 2-Bromonaphthalene	*0.0364*	*0*	*0.04*	*0*	*91.0*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03529*	*0*	*0.04*	*0*	*88.2*	*40 - 140*				
Surr: o-Terphenyl	*0.02991*	*0*	*0.04*	*0*	*74.8*	*40 - 140*				

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **21-Sep-2025 04:31**
Client ID: Run ID: **FID23_522356** SeqNo: **9045200** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.05559	0.100	0.05	0	111	40 - 140				J
Aliphatics >C12 - C16	0.116	0.100	0.1	0	116	40 - 140				
Aliphatics >C16 - C35	0.4439	0.100	0.4	0	111	40 - 140				
Surr: 1-Chlorooctadecane	*0.03113*	*0*	*0.04*	*0*	*77.8*	*40 - 140*				

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **21-Sep-2025 04:31**
Client ID: Run ID: **FID-22_522357** SeqNo: **9045229** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.06485	0.100	0.05	0.01847	92.8	40 - 140				J
Aromatics >C12 - C16	0.2141	0.100	0.2	0.01883	97.6	40 - 140				
Aromatics >C16 - C21	0.1676	0.100	0.15	0	112	40 - 140				
Aromatics >C21 - C35	0.4866	0.100	0.45	0	108	40 - 140				
Surr: 2-Bromonaphthalene	*0.03966*	*0*	*0.04*	*0*	*99.1*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03832*	*0*	*0.04*	*0*	*95.8*	*40 - 140*				
Surr: o-Terphenyl	*0.03464*	*0*	*0.04*	*0*	*86.6*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: 233136 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **21-Sep-2025 05:02**
Client ID: Run ID: **FID23_522356** SeqNo: **9045201** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04645	0.100	0.05	0	92.9	40 - 140	0.05559	0	50	J
Aliphatics >C12 - C16	0.1005	0.100	0.1	0	101	40 - 140	0.116	14.3	50	
Aliphatics >C16 - C35	0.3847	0.100	0.4	0	96.2	40 - 140	0.4439	14.3	50	
Surr: 1-Chlorooctadecane	*0.02692*	*0*	*0.04*	*0*	*67.3*	*40 - 140*	*0.03113*	*14.5*	*50*	

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **21-Sep-2025 05:02**
Client ID: Run ID: **FID-22_522357** SeqNo: **9045230** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05583	0.100	0.05	0.01847	74.7	40 - 140	0.06485	0	50	J
Aromatics >C12 - C16	0.1967	0.100	0.2	0.01883	89.0	40 - 140	0.2141	8.43	50	
Aromatics >C16 - C21	0.1561	0.100	0.15	0	104	40 - 140	0.1676	7.08	50	
Aromatics >C21 - C35	0.4564	0.100	0.45	0	101	40 - 140	0.4866	6.41	50	
Surr: 2-Bromonaphthalene	*0.03864*	*0*	*0.04*	*0*	*96.6*	*40 - 140*	*0.03966*	*2.59*	*50*	
Surr: 2-Fluorobiphenyl	*0.03761*	*0*	*0.04*	*0*	*94.0*	*40 - 140*	*0.03832*	*1.85*	*50*	
Surr: o-Terphenyl	*0.03237*	*0*	*0.04*	*0*	*80.9*	*40 - 140*	*0.03464*	*6.75*	*50*	

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522649 (0) **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MBLK Sample ID: **MBLK-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:52**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052320** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2778*	*0.0100*	*0.25*	*0*	*111*	*70 - 130*				

LCS Sample ID: **LCS-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 17:34**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052318** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.03109	0.00500	0.025	0	124	70 - 130				
Aliphatics >C8 - C10	0.02605	0.00500	0.025	0	104	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2619*	*0.0100*	*0.25*	*0*	*105*	*70 - 130*				

LCSD Sample ID: **LCSD-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:13**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052319** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02496	0.00500	0.025	0	99.8	70 - 130	0.03109	21.9	25	
Aliphatics >C8 - C10	0.02787	0.00500	0.025	0	111	70 - 130	0.02605	6.74	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2332*	*0.0100*	*0.25*	*0*	*93.3*	*70 - 130*	*0.2619*	*11.6*	*25*	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **25-Sep-2025 10:21**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052342** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	1.856	0.125	0.625	1.675	29.0	70 - 130				S
Aliphatics >C8 - C10	0.3919	0.125	0.625	0	62.7	70 - 130				S
Surr: 2,5-Dibromotoluene (Aliphatic)	*5.981*	*0.250*	*6.25*	*0*	*95.7*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: **R522649 (0)** **Instrument:** **FID-14** **Method:** **MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **25-Sep-2025 11:00**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052343** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	1.929	0.125	0.625	1.675	40.7	70 - 130	1.856	3.87	25	S
Aliphatics >C8 - C10	0.2884	0.125	0.625	0	46.1	70 - 130	0.3919	30.4	25	SR
Surr: 2,5-Dibromotoluene (Aliphatic)	*5.732*	*0.250*	*6.25*	*0*	*91.7*	*70 - 130*	*5.981*	*4.25*	*25*	

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522653 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:52**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052525** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2599*	*0.0100*	*0.25*	*0*	*104*	*70 - 130*				

LCS Sample ID: **LCS-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 17:34**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052523** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0856	0.0200	0.1	0	85.6	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.244*	*0.0100*	*0.25*	*0*	*97.6*	*70 - 130*				

LCSD Sample ID: **LCSD-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:13**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052524** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0723	0.0200	0.1	0	72.3	70 - 130	0.0856	16.8	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2166*	*0.0100*	*0.25*	*0*	*86.7*	*70 - 130*	*0.244*	*11.9*	*25*	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **25-Sep-2025 10:21**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052547** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	1.031	0.500	2.5	0	41.2	70 - 130				S
Surr: 2,5-Dibromotoluene (Aromatic)	*5.567*	*0.250*	*6.25*	*0*	*89.1*	*70 - 130*				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **25-Sep-2025 11:00**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052548** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.5792	0.500	2.5	0	23.2	70 - 130	1.031	56.1	25	SR
Surr: 2,5-Dibromotoluene (Aromatic)	*5.357*	*0.250*	*6.25*	*0*	*85.7*	*70 - 130*	*5.567*	*3.84*	*25*	

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: 233103 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-233103** Units: **mg/L** Analysis Date: **19-Sep-2025 12:17**
Client ID: Run ID: **HG05_522139** SeqNo: **9040310** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U		0.000200								

LCS Sample ID: **LCS-233103** Units: **mg/L** Analysis Date: **19-Sep-2025 12:18**
Client ID: Run ID: **HG05_522139** SeqNo: **9040311** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00443		0.000200	0.005	0	88.6	80 - 120				

MS Sample ID: **HS25090780-01MS** Units: **mg/L** Analysis Date: **19-Sep-2025 12:25**
Client ID: **MW-1-200** Run ID: **HG05_522139** SeqNo: **9040315** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00482		0.000200	0.005	-0.000007	96.5	75 - 125				

MSD Sample ID: **HS25090780-01MSD** Units: **mg/L** Analysis Date: **19-Sep-2025 12:27**
Client ID: **MW-1-200** Run ID: **HG05_522139** SeqNo: **9040316** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00462		0.000200	0.005	-0.000007	92.5	75 - 125	0.00482	4.24	20	

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: 233145 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-233145** Units: **mg/L** Analysis Date: **21-Sep-2025 10:33**
Client ID: Run ID: **ICPMS06_522190** SeqNo: **9041624** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00500								
Calcium	U	0.500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00500								
Potassium	U	0.500								
Sodium	U	0.500								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.0100								

LCS Sample ID: **LCS-233145** Units: **mg/L** Analysis Date: **21-Sep-2025 10:35**
Client ID: Run ID: **ICPMS06_522190** SeqNo: **9041625** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.049	0.00200	0.05	0	98.0	80 - 120				
Barium	0.04794	0.00500	0.05	0	95.9	80 - 120				
Calcium	5.011	0.500	5	0	100	80 - 120				
Chromium	0.0491	0.00500	0.05	0	98.2	80 - 120				
Iron	4.933	0.200	5	0	98.7	80 - 120				
Lead	0.04705	0.00200	0.05	0	94.1	80 - 120				
Magnesium	4.977	0.200	5	0	99.5	80 - 120				
Manganese	0.05049	0.00500	0.05	0	101	80 - 120				
Nickel	0.04889	0.00500	0.05	0	97.8	80 - 120				
Potassium	4.932	0.500	5	0	98.6	80 - 120				
Sodium	4.881	0.500	5	0	97.6	80 - 120				
Strontium	0.09921	0.00500	0.1	0	99.2	80 - 120				
Vanadium	0.04844	0.00500	0.05	0	96.9	80 - 120				
Zinc	0.05072	0.0100	0.05	0	101	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: 233145 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25090780-01MS** Units: **mg/L** Analysis Date: **21-Sep-2025 10:44**
Client ID: **MW-1-200** Run ID: **ICPMS06_522190** SeqNo: **9041629** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05788	0.00200	0.05	0.00825	99.3	80 - 120				
Barium	0.3211	0.00500	0.05	0.2875	67.3	80 - 120				SO
Calcium	24.26	0.500	5	19.61	93.0	80 - 120				
Chromium	0.04887	0.00500	0.05	0.00004	97.7	80 - 120				
Iron	5.038	0.200	5	0.1844	97.1	80 - 120				
Lead	0.04902	0.00200	0.05	0.000015	98.0	80 - 120				
Magnesium	14.65	0.200	5	9.956	93.8	80 - 120				
Manganese	0.1009	0.00500	0.05	0.05488	92.0	80 - 120				
Nickel	0.04777	0.00500	0.05	-0.000008	95.5	80 - 120				
Potassium	7.046	0.500	5	2.094	99.0	80 - 120				
Sodium	103.1	0.500	5	100.3	55.4	80 - 120				SO
Strontium	0.3691	0.00500	0.1	0.2773	91.8	80 - 120				
Vanadium	0.04994	0.00500	0.05	-0.000035	100.0	80 - 120				
Zinc	0.05368	0.0100	0.05	0.002536	102	80 - 120				

MSD Sample ID: **HS25090780-01MSD** Units: **mg/L** Analysis Date: **21-Sep-2025 10:46**
Client ID: **MW-1-200** Run ID: **ICPMS06_522190** SeqNo: **9041630** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0588	0.00200	0.05	0.00825	101	80 - 120	0.05788	1.59	20	
Barium	0.3306	0.00500	0.05	0.2875	86.1	80 - 120	0.3211	2.89	20	O
Calcium	24.42	0.500	5	19.61	96.3	80 - 120	24.26	0.685	20	
Chromium	0.04915	0.00500	0.05	0.00004	98.2	80 - 120	0.04887	0.565	20	
Iron	5.149	0.200	5	0.1844	99.3	80 - 120	5.038	2.18	20	
Lead	0.04916	0.00200	0.05	0.000015	98.3	80 - 120	0.04902	0.295	20	
Magnesium	14.91	0.200	5	9.956	99.1	80 - 120	14.65	1.78	20	
Manganese	0.102	0.00500	0.05	0.05488	94.3	80 - 120	0.1009	1.12	20	
Nickel	0.04838	0.00500	0.05	-0.000008	96.8	80 - 120	0.04777	1.28	20	
Potassium	7.097	0.500	5	2.094	100	80 - 120	7.046	0.719	20	
Sodium	103.9	0.500	5	100.3	71.5	80 - 120	103.1	0.776	20	SO
Strontium	0.367	0.00500	0.1	0.2773	89.7	80 - 120	0.3691	0.585	20	
Vanadium	0.04957	0.00500	0.05	-0.000035	99.2	80 - 120	0.04994	0.75	20	
Zinc	0.05368	0.0100	0.05	0.002536	102	80 - 120	0.05368	0.00186	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: 233145 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25090780-01PDS** Units: **mg/L** Analysis Date: **21-Sep-2025 10:48**
Client ID: **MW-1-200** Run ID: **ICPMS06_522190** SeqNo: **9041631** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1127	0.00200	0.1	0.00825	104	75 - 125				
Barium	0.3797	0.00500	0.1	0.2875	92.2	75 - 125				
Calcium	30.42	0.500	10	19.61	108	75 - 125				
Chromium	0.1037	0.00500	0.1	0.00004	104	75 - 125				
Iron	10.53	0.200	10	0.1844	103	75 - 125				
Lead	0.1034	0.00200	0.1	0.000015	103	75 - 125				
Magnesium	20.68	0.200	10	9.956	107	75 - 125				
Manganese	0.1577	0.00500	0.1	0.05488	103	75 - 125				
Nickel	0.09937	0.00500	0.1	-0.000008	99.4	75 - 125				
Potassium	12.78	0.500	10	2.094	107	75 - 125				
Sodium	110.3	0.500	10	100.3	100	75 - 125				O
Vanadium	0.1045	0.00500	0.1	-0.000035	105	75 - 125				
Zinc	0.1069	0.0100	0.1	0.002536	104	75 - 125				

SD Sample ID: **HS25090780-01SD** Units: **mg/L** Analysis Date: **21-Sep-2025 10:37**
Client ID: **MW-1-200** Run ID: **ICPMS06_522190** SeqNo: **9041626** PrepDate: **19-Sep-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	0.008534	0.0100					0.00825	0	10	J
Barium	0.275	0.0250					0.2875	4.36	10	
Calcium	19.75	2.50					19.61	0.71	10	
Chromium	U	0.0250					0.00004	0	10	
Iron	U	1.00					0.1844	0	10	
Lead	U	0.0100					0.000015	0	10	
Magnesium	10.15	1.00					9.956	1.95	10	
Manganese	0.05558	0.0250					0.05488	1.27	10	
Nickel	U	0.0250					-0.000008	0	10	
Potassium	2.225	2.50					2.094	0	10	J
Sodium	102	2.50					100.3	1.67	10	
Strontium	0.2795	0.0250					0.2773	0.774	10	
Vanadium	U	0.0250					-0.000035	0	10	
Zinc	U	0.0500					0.002536	0	10	

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522320 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250922** Units: **mg/L** Analysis Date: **22-Sep-2025 11:03**
Client ID: Run ID: **VOA4_522320** SeqNo: **9044485** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.058*	*0.0010*	*0.05*	*0*	*116*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.053*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*				
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*108*	*73 - 126*				
Surr: Toluene-d8	*0.049*	*0.0010*	*0.05*	*0*	*98.3*	*81 - 120*				

LCS Sample ID: **LCS-250922** Units: **mg/L** Analysis Date: **22-Sep-2025 10:00**
Client ID: Run ID: **VOA4_522320** SeqNo: **9044483** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	101	74 - 120				
Ethylbenzene	0.018	0.0020	0.02	0	91.9	77 - 117				
m,p-Xylene	0.037	0.0040	0.04	0	91.4	77 - 122				
o-Xylene	0.018	0.0020	0.02	0	92.1	75 - 119				
Toluene	0.018	0.0020	0.02	0	92.2	77 - 118				
Xylenes, Total	0.055	0.0060	0.06	0	91.6	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.060*	*0.0010*	*0.05*	*0*	*121*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.053*	*0.0010*	*0.05*	*0*	*107*	*77 - 113*				
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*108*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100.0*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522320 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250922** Units: **mg/L** Analysis Date: **22-Sep-2025 10:21**
Client ID: Run ID: **VOA4_522320** SeqNo: **9044484** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	96.9	74 - 120	0.02010	3.66	20	
Ethylbenzene	0.018	0.0020	0.02	0	88.5	77 - 117	0.01838	3.75	20	
m,p-Xylene	0.036	0.0040	0.04	0	88.9	77 - 122	0.03656	2.83	20	
o-Xylene	0.018	0.0020	0.02	0	89.4	75 - 119	0.01842	3.01	20	
Toluene	0.018	0.0020	0.02	0	91.0	77 - 118	0.01845	1.38	20	
Xylenes, Total	0.053	0.0060	0.06	0	89.0	75 - 122	0.05498	2.89	20	
Surr: 1,2-Dichloroethane-d4	*0.060*	*0.0010*	*0.05*	*0*	*120*	*70 - 123*	*0.06035*	*0.178*	*20*	
Surr: 4-Bromofluorobenzene	*0.053*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*	*0.05341*	*1.43*	*20*	
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*108*	*73 - 126*	*0.05417*	*0.222*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*	*0.05000*	*0.753*	*20*	

The following samples were analyzed in this batch: HS25090780-01 HS25090780-02 HS25090780-03 HS25090780-04 HS25090780-05 HS25090780-06

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522321 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250922** Units: **mg/L** Analysis Date: **22-Sep-2025 22:34**
Client ID: Run ID: **VOA4_522321** SeqNo: **9044506** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.057*	*0.0010*	*0.05*	*0*	*114*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.054*	*0.0010*	*0.05*	*0*	*108*	*77 - 113*				
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*108*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100.0*	*81 - 120*				

LCS Sample ID: **LCS-250922** Units: **mg/L** Analysis Date: **22-Sep-2025 21:32**
Client ID: Run ID: **VOA4_522321** SeqNo: **9044513** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.021	0.0010	0.02	0	103	74 - 120				
Ethylbenzene	0.019	0.0020	0.02	0	95.2	77 - 117				
m,p-Xylene	0.037	0.0040	0.04	0	93.5	77 - 122				
o-Xylene	0.019	0.0020	0.02	0	94.9	75 - 119				
Toluene	0.019	0.0020	0.02	0	96.2	77 - 118				
Xylenes, Total	0.056	0.0060	0.06	0	94.0	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.060*	*0.0010*	*0.05*	*0*	*120*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*				
Surr: Dibromofluoromethane	*0.053*	*0.0010*	*0.05*	*0*	*107*	*73 - 126*				
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522321 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250922** Units: **mg/L** Analysis Date: **22-Sep-2025 21:53**
Client ID: Run ID: **VOA4_522321** SeqNo: **9044514** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	96.2	74 - 120	0.02069	7.25	20	
Ethylbenzene	0.017	0.0020	0.02	0	87.1	77 - 117	0.01903	8.82	20	
m,p-Xylene	0.034	0.0040	0.04	0	85.8	77 - 122	0.03740	8.62	20	
o-Xylene	0.018	0.0020	0.02	0	88.4	75 - 119	0.01897	7.02	20	
Toluene	0.018	0.0020	0.02	0	88.8	77 - 118	0.01924	8.05	20	
Xylenes, Total	0.052	0.0060	0.06	0	86.7	75 - 122	0.05637	8.08	20	
Surr: 1,2-Dichloroethane-d4	*0.061*	*0.0010*	*0.05*	*0*	*122*	*70 - 123*	*0.06011*	*1.73*	*20*	
Surr: 4-Bromofluorobenzene	*0.053*	*0.0010*	*0.05*	*0*	*106*	*77 - 113*	*0.05239*	*1.35*	*20*	
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*107*	*73 - 126*	*0.05348*	*0.0822*	*20*	
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*100*	*81 - 120*	*0.05097*	*1.65*	*20*	

The following samples were analyzed in this batch: HS25090780-07 HS25090780-08 HS25090780-09 HS25090780-10 HS25090780-11 HS25090780-12 HS25090780-13 HS25090780-14 HS25090780-15 HS25090780-16

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522099 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R522099** Units: **mg/L** Analysis Date: **18-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522099** SeqNo: **9039415** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R522099** Units: **mg/L** Analysis Date: **18-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522099** SeqNo: **9039414** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.52	5.00	25	0	90.1	85 - 115				

LCSD Sample ID: **LCSD-R522099** Units: **mg/L** Analysis Date: **18-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522099** SeqNo: **9039413** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.32	5.00	25	0	89.3	85 - 115	22.52	0.892	20	

MS Sample ID: **HS25090780-01MS** Units: **mg/L** Analysis Date: **18-Sep-2025 16:00**
Client ID: **MW-1-200** Run ID: **WetChem_HS_522099** SeqNo: **9039417** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.12	5.00	25	-1.48	94.4	80 - 120				

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522100 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R522100** Units: **mg/L** Analysis Date: **18-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522100** SeqNo: **9039429** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R522100** Units: **mg/L** Analysis Date: **18-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522100** SeqNo: **9039428** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.93	1.00	26.56	0	90.1	80 - 120				

LCSD Sample ID: **LCSD-R522100** Units: **mg/L** Analysis Date: **18-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522100** SeqNo: **9039427** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.72	1.00	26.56	0	89.3	80 - 120	23.93	0.892	20	

The following samples were analyzed in this batch: HS25090780-01 HS25090780-02 HS25090780-03 HS25090780-04 HS25090780-05 HS25090780-06 HS25090780-07 HS25090780-08 HS25090780-09

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522127 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-09.18.2025** Units: **mg/L** Analysis Date: **18-Sep-2025 20:10**
Client ID: Run ID: **Skalar 03_522127** SeqNo: **9039987** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-09.18.2025** Units: **mg/L** Analysis Date: **18-Sep-2025 20:16**
Client ID: Run ID: **Skalar 03_522127** SeqNo: **9039988** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	990.4	5.00	1000	0	99.0	85 - 115				

LCSD Sample ID: **LCSD-09.18.2025** Units: **mg/L** Analysis Date: **18-Sep-2025 20:23**
Client ID: Run ID: **Skalar 03_522127** SeqNo: **9039989** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	989	5.00	1000	0	98.9	85 - 115	990.4	0.141	20	

DUP Sample ID: **HS25090780-01DUP** Units: **mg/L** Analysis Date: **18-Sep-2025 20:34**
Client ID: **MW-1-200** Run ID: **Skalar 03_522127** SeqNo: **9039991** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	256.5	5.00					256.1	0.156	20	
Alkalinity, Carbonate (As CaCO3)	9	5.00					12.4	31.8	20	R

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: **R522128 (0)** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25090780-01DUP** Units: **pH Units** Analysis Date: **18-Sep-2025 20:34**
Client ID: **MW-1-200** Run ID: **Skalar 03_522128** SeqNo: **9040016** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.39	1.00					8.39	0	10	
Temp Deg C @pH	21.4	0					21.5	0.466	10	

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522142 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-09192025** Units: **mg/L** Analysis Date: **19-Sep-2025 09:20**
Client ID: Run ID: **Balance1_522142** SeqNo: **9040404** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-09192025** Units: **mg/L** Analysis Date: **19-Sep-2025 09:20**
Client ID: Run ID: **Balance1_522142** SeqNo: **9040403** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	920	10.0	1000	0	92.0	85 - 115				

DUP Sample ID: **HS25090832-01DUP** Units: **mg/L** Analysis Date: **19-Sep-2025 09:20**
Client ID: Run ID: **Balance1_522142** SeqNo: **9040402** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	944	10.0					928	1.71	20	

DUP Sample ID: **HS25090780-01DUP** Units: **mg/L** Analysis Date: **19-Sep-2025 09:20**
Client ID: **MW-1-200** Run ID: **Balance1_522142** SeqNo: **9040399** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	342	10.0					338	1.18	20	

The following samples were analyzed in this batch: HS25090780-01 HS25090780-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522180 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-09202025** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522180** SeqNo: **9041348** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-09202025** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522180** SeqNo: **9041347** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	936	10.0	1000	0	93.6	85 - 115				

DUP Sample ID: **HS25090875-02DUP** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522180** SeqNo: **9041343** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	3280	10.0					2900	12.3	20	

DUP Sample ID: **HS25090865-07DUP** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522180** SeqNo: **9041340** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	3240	10.0					3300	1.83	20	

The following samples were analyzed in this batch:

HS25090780-03	HS25090780-04	HS25090780-05	HS25090780-06
HS25090780-07	HS25090780-08	HS25090780-09	HS25090780-10
HS25090780-11	HS25090780-12		

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522244 (0) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **20-Sep-2025 14:38**
Client ID: Run ID: **ICS-04_522244** SeqNo: **9042731** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	0.203	0.500								J
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **20-Sep-2025 14:47**
Client ID: Run ID: **ICS-04_522244** SeqNo: **9042732** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.111	0.100	4	0	103	80 - 120				
Chloride	20.56	0.500	20	0	103	80 - 120				
Sulfate	20.8	0.500	20	0	104	80 - 120				

MS Sample ID: **HS25090780-01MS** Units: **mg/L** Analysis Date: **20-Sep-2025 15:06**
Client ID: **MW-1-200** Run ID: **ICS-04_522244** SeqNo: **9042734** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.776	0.100	2	0.0742	85.1	80 - 120				
Chloride	45.42	0.500	10	36.45	89.6	80 - 120				
Sulfate	8.495	0.500	10	0	85.0	80 - 120				

MSD Sample ID: **HS25090780-01MSD** Units: **mg/L** Analysis Date: **20-Sep-2025 15:16**
Client ID: **MW-1-200** Run ID: **ICS-04_522244** SeqNo: **9042735** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	1.788	0.100	2	0.0742	85.7	80 - 120	1.776	0.634	20	
Chloride	45.62	0.500	10	36.45	91.7	80 - 120	45.42	0.457	20	
Sulfate	8.501	0.500	10	0	85.0	80 - 120	8.495	0.073	20	

The following samples were analyzed in this batch:

HS25090780-01	HS25090780-02	HS25090780-03	HS25090780-04
HS25090780-05	HS25090780-06	HS25090780-07	HS25090780-08
HS25090780-09	HS25090780-10	HS25090780-11	HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522272 (0) **Instrument: ICS-04** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **22-Sep-2025 13:41**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043309** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.2	0.500								J

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **22-Sep-2025 11:40**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043298** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.46	0.500	20	0	102	80 - 120				

MS Sample ID: **HS25090868-01MS** Units: **mg/L** Analysis Date: **22-Sep-2025 12:45**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043304** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1137	5.00	100	1059	78.5	80 - 120				SEO

MSD Sample ID: **HS25090868-01MSD** Units: **mg/L** Analysis Date: **22-Sep-2025 12:55**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043305** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1136	5.00	100	1059	77.3	80 - 120	1137	0.104	20	SEO

The following samples were analyzed in this batch: HS25090780-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522319 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R522319** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044839** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R522319** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044838** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.16	5.00	25	0	88.6	85 - 115				

LCSD Sample ID: **LCSD-R522319** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044837** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.96	5.00	25	0	87.8	85 - 115	22.16	0.907	20	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044841** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.96	5.00	25	-2.64	98.4	80 - 120				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044840** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.56	5.00	25	-2.64	96.8	80 - 120	21.96	1.84	20	

The following samples were analyzed in this batch: HS25090780-10 HS25090780-11 HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090780

QC BATCH REPORT

Batch ID: R522341 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R522341** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044875** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R522341** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044874** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.54	1.00	26.56	0	88.6	80 - 120				

LCSD Sample ID: **LCSD-R522341** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044873** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.33	1.00	26.56	0	87.8	80 - 120	23.54	0.907	20	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044904** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.33	1.00	26.56	-2.805	98.4	80 - 120				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044903** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	22.91	1.00	26.56	-2.805	96.8	80 - 120	23.33	1.84	20	

The following samples were analyzed in this batch: HS25090780-10 HS25090780-11 HS25090780-12

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25090780**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	TX-C25-00104	30-Apr-2026

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25090780 **Date/Time Received:** **17-Sep-2025 13:23**

Client Name: ERMSW-HOU **Received by:** **Johnny Hernandez**

Completed By: */S/ Edgar Zheku* (eSignature) 18-Sep-2025 10:42 (Date/Time) **Reviewed by:** */S/ Beverly Mustafa* (eSignature) 18-Sep-2025 13:29 (Date/Time)

Matrices: **W** Carrier name: **ALS Courier**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:349996, 349995
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.0UC/1.0C, 4.6UC/4.6C, 3.4UC/3.4C, 5.8UC/5.8C	IR 34	
Cooler(s)/Kit(s):	54475, 54456, 54474, 54403		
Date/Time sample(s) sent to storage:	09/18/2025 10:42		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 349996

HS25090780 v

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0794035	Project Name	Sulphur Dome	A	8260_LL_W (Low Level VOC (8260) BTEX)
Work Order		Project Number		B	ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C	HG_W (Mercury)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D	MA EPH_W_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	9056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	ALK_W 2320B (carb, bicarb)
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SULFD_4500S F (Sulfide)
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1-200	9/15/25	15:50	W	1,2,4,8	11	X	X	X	X	X	X	X	X	X	X	
2	FB-091525	9/15/25	16:30														
3	FB-091625	9/16/25	8:30														
4	MW-1-500	9/16/25	8:40														
5	MW-1-700	9/16/25	9:50														
6	019-995	9/16/25	10:45														
7	019-582	9/16/25	11:00														
8	019-1055	9/16/25	12:30														
9	Cottages	9/16/25	12:45														
10	MW-2-500	9/16/25	14:30														

Sampler(s) Please Print & Sign: Taylar Brown Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Tedne Capes	9/17/25	09:00		9/17	9:00
Relinquished by:	Date:	Time:	Received by/(Laboratory):		
	9/17	11:00			
Logged by/(Laboratory):	Date:	Time:	Checked by (Laboratory):		
	9/17/25	1322	Jenny Homer	09/17/25	1323

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.
1234	0.0
54475	1.0
54456	4.6
54474	3.4
54403	5.8

QC Package: (Check One Box Below)
- [X] Level II Std QC
- [ ] Level II Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 349995

HS25090780

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0794035	Project Name	Sulphur Dome	A	8260_LL_W (Low Level VOC: (8260) BTEX)
Work Order		Project Number		B	ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C	HG_W (Mercury)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D	MA EPH_W_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	9056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	ALK_W 2320B (carb, bicarb)
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SULFD_4500S F (Sulfide)
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Preс.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	GW-DUP	9/16/25	99:99	W			X	X	X	X	X	X	X	X	X	X	
2	GW-RINSATE	9/17/25	0845	W			X	X	X	X	X	X	X	X	X	X	
3		—	—	W	1	2	X										
4	C6-081625-320	—	—	↓	↓	↓	↓										
5	C6-081225-325	—															
6	C6-081225-329	—	—														
7	C6 081225-346	—	—	↓	↓	↓	↓										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Taylor Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Taylor Brown	9/17/25	09:00		9/17	9:00
Relinquished by:	Date:	Time:	Received by (Laboratory):		
	9/17	11:00			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		
	9/22/25	1322			

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 26, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25090865**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 10 sample(s) on Sep 18, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch
Project Manager

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25090865

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25090865-01	MW-2-200	Water		17-Sep-2025 09:00	18-Sep-2025 16:00	☐
HS25090865-02	FB-091725	Water		17-Sep-2025 10:20	18-Sep-2025 16:00	☐
HS25090865-03	MW-2-700	Water		17-Sep-2025 10:30	18-Sep-2025 16:00	☐
HS25090865-04	MW-3-700	Water		17-Sep-2025 16:15	18-Sep-2025 16:00	☐
HS25090865-05	FB-091825	Water		18-Sep-2025 08:45	18-Sep-2025 16:00	☐
HS25090865-06	019-580	Water		18-Sep-2025 07:40	18-Sep-2025 16:00	☐
HS25090865-07	MW-3-500	Water		18-Sep-2025 09:15	18-Sep-2025 16:00	☐
HS25090865-08	CG-081225-001	Water	CG-081225-001	18-Sep-2025 00:00	18-Sep-2025 16:00	☐
HS25090865-09	CG-081225-322	Water	CG-081225-322	18-Sep-2025 00:00	18-Sep-2025 16:00	☐
HS25090865-10	CG-081225-309	Water	CG-081225-309	18-Sep-2025 00:00	18-Sep-2025 16:00	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25090865

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GC Semivolatiles by Method MA EPH

Batch ID: 233136

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method MA VPH

Batch ID: R522653

Sample ID: MW-3-500 (HS25090865-07MS)

• MS/MSD failed outside control limits due to matrix interference.

Batch ID: R522649

Sample ID: MW-3-500 (HS25090865-07MS)

• MS/MSD failed outside control limits due to matrix interference.

GCMS Volatiles by Method SW8260

Batch ID: R522366

Sample ID: LCS-250923

• Not enough sample vials are provided to run MS/MSD.

Batch ID: R522204

Sample ID: LCS-250920

• Not enough sample vials are received to perform MS and MSD. LCS and LCSD are provided to meet QC requirements.

Metals by Method SW7470A

Batch ID: 233221

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 233216

Sample ID: MW-3-500 (HS25090865-07MS)

• The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Calcium, Magnesium, Potassium, Sodium, Strontium.

WetChemistry by Method SW9056

Batch ID: R522451

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25090865

WetChemistry by Method SW9056

Batch ID: R522272

Sample ID: HS25090868-01MS

- MS and MSD are for an unrelated sample (Chloride)

Batch ID: R522248

Sample ID: MW-3-500 (HS25090865-07MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride,Sulfate)

WetChemistry by Method SM4500 S2-F

Batch ID: R522319

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E376.1

Batch ID: R522341

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R522230

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R522228

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R522180,R522475

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 17-Sep-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	23-Sep-2025 12:31
Ethylbenzene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 12:31
m,p-Xylene		U	0.00061	0.0040	mg/L	1	23-Sep-2025 12:31
o-Xylene		U	0.00031	0.0020	mg/L	1	23-Sep-2025 12:31
Toluene		U	0.00033	0.0020	mg/L	1	23-Sep-2025 12:31
Xylenes, Total		U	0.00092	0.0060	mg/L	1	23-Sep-2025 12:31
Surr: 1,2-Dichloroethane-d4	*91.1*			*70-126*	*%REC*	*1*	*23-Sep-2025 12:31*
Surr: 4-Bromofluorobenzene	*101*			*77-113*	*%REC*	*1*	*23-Sep-2025 12:31*
Surr: Dibromofluoromethane	*97.4*			*77-123*	*%REC*	*1*	*23-Sep-2025 12:31*
Surr: Toluene-d8	*99.7*			*82-127*	*%REC*	*1*	*23-Sep-2025 12:31*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 05:50
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 05:50
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 05:50
Surr: 2,5-Dibromotoluene (Aliphatic)	*93.0*			*70-130*	*%REC*	*1*	*25-Sep-2025 05:50*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.3*			*70-130*	*%REC*	*1*	*25-Sep-2025 05:50*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:15
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:15
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:15
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:15
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:15
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:15
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:15
Surr: 1-Chlorooctadecane	*81.3*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:15*
Surr: 2-Bromonaphthalene	*96.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:15*
Surr: 2-Fluorobiphenyl	*93.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:15*
Surr: o-Terphenyl	*94.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:15*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-200
Collection Date: 17-Sep-2025 09:00

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 22-Sep-2025		Analyst: JC
Arsenic	**0.00127**	J	**0.000510**	**0.00200**	**mg/L**	1	23-Sep-2025 14:51
Barium	**0.139**		**0.000750**	**0.00500**	**mg/L**	1	23-Sep-2025 14:51
Calcium	**10.3**		**0.120**	**0.500**	**mg/L**	1	23-Sep-2025 14:51
Chromium	U		0.00173	0.00500	mg/L	1	23-Sep-2025 14:51
Iron	**1.34**		**0.0600**	**0.200**	**mg/L**	1	23-Sep-2025 14:51
Lead	U		0.000470	0.00200	mg/L	1	23-Sep-2025 14:51
Magnesium	**3.49**		**0.0408**	**0.200**	**mg/L**	1	23-Sep-2025 14:51
Manganese	**0.0350**		**0.00190**	**0.00500**	**mg/L**	1	23-Sep-2025 14:51
Nickel	U		0.00130	0.00500	mg/L	1	23-Sep-2025 14:51
Potassium	**4.20**		**0.0869**	**0.500**	**mg/L**	1	23-Sep-2025 14:51
Sodium	**78.6**		**0.130**	**0.500**	**mg/L**	1	23-Sep-2025 14:51
Strontium	**0.279**		**0.000300**	**0.00500**	**mg/L**	1	23-Sep-2025 14:51
Vanadium	U		0.000600	0.00500	mg/L	1	23-Sep-2025 14:51
Zinc	**0.0965**		**0.00300**	**0.0100**	**mg/L**	1	23-Sep-2025 14:51
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 22-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	22-Sep-2025 20:05
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**420**		**3.00**	**10.0**	**mg/L**	1	24-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**182**		**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:01
Alkalinity, Carbonate (As CaCO3)	**9.40**		**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:01
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**8.52**	H	**0.100**	**1.00**	**pH Units**	1	19-Sep-2025 18:01
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	19-Sep-2025 18:01
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	21-Sep-2025 11:09
Chloride	**22.1**		**0.200**	**0.500**	**mg/L**	1	21-Sep-2025 11:09
Sulfate	U		0.200	0.500	mg/L	1	21-Sep-2025 11:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091725
Collection Date: 17-Sep-2025 10:20

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	20-Sep-2025 06:25
Ethylbenzene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 06:25
m,p-Xylene		U	0.00061	0.0040	mg/L	1	20-Sep-2025 06:25
o-Xylene		U	0.00031	0.0020	mg/L	1	20-Sep-2025 06:25
Toluene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 06:25
Xylenes, Total		U	0.00092	0.0060	mg/L	1	20-Sep-2025 06:25
Surr: 1,2-Dichloroethane-d4	*117*			*70-126*	*%REC*	*1*	*20-Sep-2025 06:25*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*20-Sep-2025 06:25*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*20-Sep-2025 06:25*
Surr: Toluene-d8	*98.9*			*82-127*	*%REC*	*1*	*20-Sep-2025 06:25*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Sep-2025 20:48
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Sep-2025 20:48
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Sep-2025 20:48
Surr: 2,5-Dibromotoluene (Aliphatic)	*92.5*			*70-130*	*%REC*	*1*	*24-Sep-2025 20:48*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.0*			*70-130*	*%REC*	*1*	*24-Sep-2025 20:48*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:44
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:44
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:44
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:44
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:44
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:44
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 12:44
Surr: 1-Chlorooctadecane	*59.1*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:44*
Surr: 2-Bromonaphthalene	*93.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:44*
Surr: 2-Fluorobiphenyl	*88.8*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:44*
Surr: o-Terphenyl	*73.8*			*40-140*	*%REC*	*1*	*21-Sep-2025 12:44*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091725
Collection Date: 17-Sep-2025 10:20

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 22-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	23-Sep-2025 14:53
Barium	U		0.000750	0.00500	mg/L	1	23-Sep-2025 14:53
Calcium	U		0.120	0.500	mg/L	1	23-Sep-2025 14:53
Chromium	U		0.00173	0.00500	mg/L	1	23-Sep-2025 14:53
Iron	U		0.0600	0.200	mg/L	1	23-Sep-2025 14:53
Lead	U		0.000470	0.00200	mg/L	1	23-Sep-2025 14:53
Magnesium	U		0.0408	0.200	mg/L	1	23-Sep-2025 14:53
Manganese	U		0.00190	0.00500	mg/L	1	23-Sep-2025 14:53
Nickel	U		0.00130	0.00500	mg/L	1	23-Sep-2025 14:53
Potassium	U		0.0869	0.500	mg/L	1	23-Sep-2025 14:53
Sodium	**0.174**	J	**0.130**	**0.500**	**mg/L**	1	23-Sep-2025 14:53
Strontium	U		0.000300	0.00500	mg/L	1	23-Sep-2025 14:53
Vanadium	U		0.000600	0.00500	mg/L	1	23-Sep-2025 14:53
Zinc	**0.00776**	J	**0.00300**	**0.0100**	**mg/L**	1	23-Sep-2025 14:53
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 22-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	22-Sep-2025 20:07
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	24-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	19-Sep-2025 18:05
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	19-Sep-2025 18:05
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**5.52**	H	**0.100**	**1.00**	**pH Units**	1	19-Sep-2025 18:05
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	19-Sep-2025 18:05
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	21-Sep-2025 11:18
Chloride	U		0.200	0.500	mg/L	1	21-Sep-2025 11:18
Sulfate	**0.239**	J	**0.200**	**0.500**	**mg/L**	1	21-Sep-2025 11:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 17-Sep-2025 10:30

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	20-Sep-2025 09:53
Ethylbenzene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 09:53
m,p-Xylene		U	0.00061	0.0040	mg/L	1	20-Sep-2025 09:53
o-Xylene		U	0.00031	0.0020	mg/L	1	20-Sep-2025 09:53
Toluene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 09:53
Xylenes, Total		U	0.00092	0.0060	mg/L	1	20-Sep-2025 09:53
Surr: 1,2-Dichloroethane-d4	*119*			*70-126*	*%REC*	*1*	*20-Sep-2025 09:53*
Surr: 4-Bromofluorobenzene	*108*			*77-113*	*%REC*	*1*	*20-Sep-2025 09:53*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*20-Sep-2025 09:53*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*20-Sep-2025 09:53*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 06:29
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 06:29
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 06:29
Surr: 2,5-Dibromotoluene (Aliphatic)	*98.9*			*70-130*	*%REC*	*1*	*25-Sep-2025 06:29*
Surr: 2,5-Dibromotoluene (Aromatic)	*92.5*			*70-130*	*%REC*	*1*	*25-Sep-2025 06:29*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 13:13
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 13:13
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 13:13
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 13:13
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 13:13
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 13:13
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 13:13
Surr: 1-Chlorooctadecane	*63.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 13:13*
Surr: 2-Bromonaphthalene	*91.4*			*40-140*	*%REC*	*1*	*21-Sep-2025 13:13*
Surr: 2-Fluorobiphenyl	*87.1*			*40-140*	*%REC*	*1*	*21-Sep-2025 13:13*
Surr: o-Terphenyl	*80.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 13:13*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-2-700
Collection Date: 17-Sep-2025 10:30

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 22-Sep-2025		Analyst: JC
Arsenic	**0.000757**	J	**0.000510**	**0.00200**	**mg/L**	1	23-Sep-2025 14:55
Barium	**0.00820**		**0.000750**	**0.00500**	**mg/L**	1	23-Sep-2025 14:55
Calcium	**0.801**		**0.120**	**0.500**	**mg/L**	1	23-Sep-2025 14:55
Chromium	U		0.00173	0.00500	mg/L	1	23-Sep-2025 14:55
Iron	**0.200**	J	**0.0600**	**0.200**	**mg/L**	1	23-Sep-2025 14:55
Lead	U		0.000470	0.00200	mg/L	1	23-Sep-2025 14:55
Magnesium	U		0.0408	0.200	mg/L	1	23-Sep-2025 14:55
Manganese	U		0.00190	0.00500	mg/L	1	23-Sep-2025 14:55
Nickel	**0.00146**	J	**0.00130**	**0.00500**	**mg/L**	1	23-Sep-2025 14:55
Potassium	**4.49**		**0.0869**	**0.500**	**mg/L**	1	23-Sep-2025 14:55
Sodium	**170**		**0.130**	**0.500**	**mg/L**	1	23-Sep-2025 14:55
Strontium	**0.0219**		**0.000300**	**0.00500**	**mg/L**	1	23-Sep-2025 14:55
Vanadium	U		0.000600	0.00500	mg/L	1	23-Sep-2025 14:55
Zinc	**0.0171**		**0.00300**	**0.0100**	**mg/L**	1	23-Sep-2025 14:55
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 22-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	22-Sep-2025 20:09
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**658**		**3.00**	**10.0**	**mg/L**	1	24-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**65.0**		**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:10
Alkalinity, Carbonate (As CaCO3)	**143**		**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:10
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**10.2**	H	**0.100**	**1.00**	**pH Units**	1	19-Sep-2025 18:10
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	19-Sep-2025 18:10
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**0.143**		**0.0300**	**0.100**	**mg/L**	1	23-Sep-2025 21:24
Chloride	**130**		**0.400**	**1.00**	**mg/L**	2	22-Sep-2025 13:22
Sulfate	**0.608**		**0.200**	**0.500**	**mg/L**	1	23-Sep-2025 21:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 17-Sep-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	20-Sep-2025 10:14
Ethylbenzene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 10:14
m,p-Xylene		U	0.00061	0.0040	mg/L	1	20-Sep-2025 10:14
o-Xylene		U	0.00031	0.0020	mg/L	1	20-Sep-2025 10:14
Toluene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 10:14
Xylenes, Total		U	0.00092	0.0060	mg/L	1	20-Sep-2025 10:14
Surr: 1,2-Dichloroethane-d4	*118*			*70-126*	*%REC*	*1*	*20-Sep-2025 10:14*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*20-Sep-2025 10:14*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*20-Sep-2025 10:14*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*20-Sep-2025 10:14*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 08:25
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 08:25
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 08:25
Surr: 2,5-Dibromotoluene (Aliphatic)	*122*			*70-130*	*%REC*	*1*	*25-Sep-2025 08:25*
Surr: 2,5-Dibromotoluene (Aromatic)	*114*			*70-130*	*%REC*	*1*	*25-Sep-2025 08:25*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 14:39
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 14:39
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 14:39
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 14:39
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 14:39
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 14:39
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 14:39
Surr: 1-Chlorooctadecane	*51.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 14:39*
Surr: 2-Bromonaphthalene	*95.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 14:39*
Surr: 2-Fluorobiphenyl	*91.4*			*40-140*	*%REC*	*1*	*21-Sep-2025 14:39*
Surr: o-Terphenyl	*76.5*			*40-140*	*%REC*	*1*	*21-Sep-2025 14:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-700
Collection Date: 17-Sep-2025 16:15

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 22-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	23-Sep-2025 14:57
Barium	**1.60**		**0.000750**	**0.00500**	**mg/L**	1	23-Sep-2025 14:57
Calcium	**86.5**		**0.120**	**0.500**	**mg/L**	1	23-Sep-2025 14:57
Chromium	U		0.00173	0.00500	mg/L	1	23-Sep-2025 14:57
Iron	**2.12**		**0.0600**	**0.200**	**mg/L**	1	23-Sep-2025 14:57
Lead	U		0.000470	0.00200	mg/L	1	23-Sep-2025 14:57
Magnesium	**9.75**		**0.0408**	**0.200**	**mg/L**	1	23-Sep-2025 14:57
Manganese	**0.0332**		**0.00190**	**0.00500**	**mg/L**	1	23-Sep-2025 14:57
Nickel	**0.00163**	J	**0.00130**	**0.00500**	**mg/L**	1	23-Sep-2025 14:57
Potassium	**38.6**		**0.0869**	**0.500**	**mg/L**	1	23-Sep-2025 14:57
Sodium	**846**		**2.60**	**10.0**	**mg/L**	20	23-Sep-2025 15:10
Strontium	**2.57**		**0.00600**	**0.100**	**mg/L**	20	23-Sep-2025 15:10
Vanadium	U		0.000600	0.00500	mg/L	1	23-Sep-2025 14:57
Zinc	**0.0311**		**0.00300**	**0.0100**	**mg/L**	1	23-Sep-2025 14:57
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 22-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	22-Sep-2025 20:11
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**2,990**		**3.00**	**10.0**	**mg/L**	1	24-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**22.7**		**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:17
Alkalinity, Carbonate (As CaCO3)	**3.40**	J	**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:17
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**8.78**	H	**0.100**	**1.00**	**pH Units**	1	19-Sep-2025 18:17
Temp Deg C @pH	**22.2**	H	**0**	**0**	**°C**	1	19-Sep-2025 18:17
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**1.89**		**0.0300**	**0.100**	**mg/L**	1	21-Sep-2025 11:37
Chloride	**1,650**		**10.0**	**25.0**	**mg/L**	50	21-Sep-2025 13:09
Sulfate	**0.263**	J	**0.200**	**0.500**	**mg/L**	1	21-Sep-2025 11:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091825
Collection Date: 18-Sep-2025 08:45

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	20-Sep-2025 06:46
Ethylbenzene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 06:46
m,p-Xylene		U	0.00061	0.0040	mg/L	1	20-Sep-2025 06:46
o-Xylene		U	0.00031	0.0020	mg/L	1	20-Sep-2025 06:46
Toluene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 06:46
Xylenes, Total		U	0.00092	0.0060	mg/L	1	20-Sep-2025 06:46
Surr: 1,2-Dichloroethane-d4	*117*			*70-126*	*%REC*	*1*	*20-Sep-2025 06:46*
Surr: 4-Bromofluorobenzene	*108*			*77-113*	*%REC*	*1*	*20-Sep-2025 06:46*
Surr: Dibromofluoromethane	*110*			*77-123*	*%REC*	*1*	*20-Sep-2025 06:46*
Surr: Toluene-d8	*99.6*			*82-127*	*%REC*	*1*	*20-Sep-2025 06:46*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	24-Sep-2025 21:27
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	24-Sep-2025 21:27
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	24-Sep-2025 21:27
Surr: 2,5-Dibromotoluene (Aliphatic)	*96.5*			*70-130*	*%REC*	*1*	*24-Sep-2025 21:27*
Surr: 2,5-Dibromotoluene (Aromatic)	*91.0*			*70-130*	*%REC*	*1*	*24-Sep-2025 21:27*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:08
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:08
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:08
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:08
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:08
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:08
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:08
Surr: 1-Chlorooctadecane	*64.8*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:08*
Surr: 2-Bromonaphthalene	*93.9*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:08*
Surr: 2-Fluorobiphenyl	*89.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:08*
Surr: o-Terphenyl	*75.1*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-091825
Collection Date: 18-Sep-2025 08:45

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 22-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	23-Sep-2025 14:59
Barium	U		0.000750	0.00500	mg/L	1	23-Sep-2025 14:59
Calcium	U		0.120	0.500	mg/L	1	23-Sep-2025 14:59
Chromium	U		0.00173	0.00500	mg/L	1	23-Sep-2025 14:59
Iron	U		0.0600	0.200	mg/L	1	23-Sep-2025 14:59
Lead	U		0.000470	0.00200	mg/L	1	23-Sep-2025 14:59
Magnesium	U		0.0408	0.200	mg/L	1	23-Sep-2025 14:59
Manganese	U		0.00190	0.00500	mg/L	1	23-Sep-2025 14:59
Nickel	U		0.00130	0.00500	mg/L	1	23-Sep-2025 14:59
Potassium	U		0.0869	0.500	mg/L	1	23-Sep-2025 14:59
Sodium	**0.418**	J	**0.130**	**0.500**	**mg/L**	1	23-Sep-2025 14:59
Strontium	**0.000314**	J	**0.000300**	**0.00500**	**mg/L**	1	23-Sep-2025 14:59
Vanadium	U		0.000600	0.00500	mg/L	1	23-Sep-2025 14:59
Zinc	**0.00317**	J	**0.00300**	**0.0100**	**mg/L**	1	23-Sep-2025 14:59
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 22-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	22-Sep-2025 20:12
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	24-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	19-Sep-2025 18:21
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	19-Sep-2025 18:21
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**5.25**	H	**0.100**	**1.00**	**pH Units**	1	19-Sep-2025 18:21
Temp Deg C @pH	**22.3**	H	**0**	**0**	**°C**	1	19-Sep-2025 18:21
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	21-Sep-2025 11:46
Chloride	**0.573**		**0.200**	**0.500**	**mg/L**	1	21-Sep-2025 11:46
Sulfate	**0.239**	J	**0.200**	**0.500**	**mg/L**	1	21-Sep-2025 11:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 18-Sep-2025 07:40

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	20-Sep-2025 10:35
Ethylbenzene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 10:35
m,p-Xylene		U	0.00061	0.0040	mg/L	1	20-Sep-2025 10:35
o-Xylene		U	0.00031	0.0020	mg/L	1	20-Sep-2025 10:35
Toluene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 10:35
Xylenes, Total		U	0.00092	0.0060	mg/L	1	20-Sep-2025 10:35
Surr: 1,2-Dichloroethane-d4	*120*			*70-126*	*%REC*	*1*	*20-Sep-2025 10:35*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*20-Sep-2025 10:35*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*20-Sep-2025 10:35*
Surr: Toluene-d8	*98.7*			*82-127*	*%REC*	*1*	*20-Sep-2025 10:35*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	25-Sep-2025 09:04
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	25-Sep-2025 09:04
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	25-Sep-2025 09:04
Surr: 2,5-Dibromotoluene (Aliphatic)	*101*			*70-130*	*%REC*	*1*	*25-Sep-2025 09:04*
Surr: 2,5-Dibromotoluene (Aromatic)	*94.2*			*70-130*	*%REC*	*1*	*25-Sep-2025 09:04*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:37
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:37
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:37
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:37
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:37
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:37
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	21-Sep-2025 15:37
Surr: 1-Chlorooctadecane	*68.3*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:37*
Surr: 2-Bromonaphthalene	*106*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:37*
Surr: 2-Fluorobiphenyl	*101*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:37*
Surr: o-Terphenyl	*89.6*			*40-140*	*%REC*	*1*	*21-Sep-2025 15:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: 019-580
Collection Date: 18-Sep-2025 07:40

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 22-Sep-2025		Analyst: JC
Arsenic	**0.000666**	J	**0.000510**	**0.00200**	**mg/L**	1	23-Sep-2025 15:01
Barium	**0.220**		**0.000750**	**0.00500**	**mg/L**	1	23-Sep-2025 15:01
Calcium	**24.8**		**0.120**	**0.500**	**mg/L**	1	23-Sep-2025 15:01
Chromium	**0.00791**		**0.00173**	**0.00500**	**mg/L**	1	23-Sep-2025 15:01
Iron	**5.04**		**0.0600**	**0.200**	**mg/L**	1	23-Sep-2025 15:01
Lead	**0.00109**	J	**0.000470**	**0.00200**	**mg/L**	1	23-Sep-2025 15:01
Magnesium	**7.91**		**0.0408**	**0.200**	**mg/L**	1	23-Sep-2025 15:01
Manganese	**0.488**		**0.00190**	**0.00500**	**mg/L**	1	23-Sep-2025 15:01
Nickel	**0.00790**		**0.00130**	**0.00500**	**mg/L**	1	23-Sep-2025 15:01
Potassium	**2.75**		**0.0869**	**0.500**	**mg/L**	1	23-Sep-2025 15:01
Sodium	**28.4**		**0.130**	**0.500**	**mg/L**	1	23-Sep-2025 15:01
Strontium	**0.219**		**0.000300**	**0.00500**	**mg/L**	1	23-Sep-2025 15:01
Vanadium	U		0.000600	0.00500	mg/L	1	23-Sep-2025 15:01
Zinc	**0.0164**		**0.00300**	**0.0100**	**mg/L**	1	23-Sep-2025 15:01
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 22-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	22-Sep-2025 20:14
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**440**		**3.00**	**10.0**	**mg/L**	1	24-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**104**		**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:52
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	19-Sep-2025 18:52
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**7.21**	H	**0.100**	**1.00**	**pH Units**	1	19-Sep-2025 18:52
Temp Deg C @pH	**22.4**	H	**0**	**0**	**°C**	1	19-Sep-2025 18:52
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	U		0.0300	0.100	mg/L	1	21-Sep-2025 11:55
Chloride	**30.0**		**0.200**	**0.500**	**mg/L**	1	21-Sep-2025 11:55
Sulfate	**3.33**		**0.200**	**0.500**	**mg/L**	1	21-Sep-2025 11:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 18-Sep-2025 09:15

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	**0.0018**		**0.00028**	**0.0010**	**mg/L**	1	20-Sep-2025 10:55
Ethylbenzene	U		0.00033	0.0020	mg/L	1	20-Sep-2025 10:55
m,p-Xylene	U		0.00061	0.0040	mg/L	1	20-Sep-2025 10:55
o-Xylene	U		0.00031	0.0020	mg/L	1	20-Sep-2025 10:55
Toluene	**0.0020**		**0.00033**	**0.0020**	**mg/L**	1	20-Sep-2025 10:55
Xylenes, Total	U		0.00092	0.0060	mg/L	1	20-Sep-2025 10:55
Surr: 1,2-Dichloroethane-d4	*125*			*70-126*	*%REC*	*1*	*20-Sep-2025 10:55*
Surr: 4-Bromofluorobenzene	*110*			*77-113*	*%REC*	*1*	*20-Sep-2025 10:55*
Surr: Dibromofluoromethane	*108*			*77-123*	*%REC*	*1*	*20-Sep-2025 10:55*
Surr: Toluene-d8	*99.8*			*82-127*	*%REC*	*1*	*20-Sep-2025 10:55*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8	**1.67**		**0.0450**	**0.125**	**mg/L**	25	25-Sep-2025 09:42
Aliphatics >C8 - C10	U		0.0100	0.125	mg/L	25	25-Sep-2025 09:42
Aromatics >C8 - C10	U		0.0150	0.500	mg/L	25	25-Sep-2025 09:42
Surr: 2,5-Dibromotoluene (Aliphatic)	*105*			*70-130*	*%REC*	*25*	*25-Sep-2025 09:42*
Surr: 2,5-Dibromotoluene (Aromatic)	*97.6*			*70-130*	*%REC*	*25*	*25-Sep-2025 09:42*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 19-Sep-2025		Analyst: SAM
Aliphatics >C10 - C12	U		0.0250	0.100	mg/L	1	21-Sep-2025 04:02
Aliphatics >C12 - C16	U		0.0250	0.100	mg/L	1	21-Sep-2025 04:02
Aliphatics >C16 - C35	U		0.0250	0.100	mg/L	1	21-Sep-2025 04:02
Aromatics >C10 - C12	U		0.0250	0.100	mg/L	1	21-Sep-2025 04:02
Aromatics >C12 - C16	U		0.0250	0.100	mg/L	1	21-Sep-2025 04:02
Aromatics >C16 - C21	U		0.0250	0.100	mg/L	1	21-Sep-2025 04:02
Aromatics >C21 - C35	U		0.0250	0.100	mg/L	1	21-Sep-2025 04:02
Surr: 1-Chlorooctadecane	*78.5*			*40-140*	*%REC*	*1*	*21-Sep-2025 04:02*
Surr: 2-Bromonaphthalene	*105*			*40-140*	*%REC*	*1*	*21-Sep-2025 04:02*
Surr: 2-Fluorobiphenyl	*101*			*40-140*	*%REC*	*1*	*21-Sep-2025 04:02*
Surr: o-Terphenyl	*93.0*			*40-140*	*%REC*	*1*	*21-Sep-2025 04:02*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-500
Collection Date: 18-Sep-2025 09:15

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 22-Sep-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	23-Sep-2025 13:53
Barium	**0.126**		**0.000750**	**0.00500**	**mg/L**	1	23-Sep-2025 13:53
Calcium	**163**		**6.00**	**25.0**	**mg/L**	50	23-Sep-2025 15:12
Chromium	**0.00375**	J	**0.00173**	**0.00500**	**mg/L**	1	23-Sep-2025 13:53
Iron	**0.695**		**0.0600**	**0.200**	**mg/L**	1	23-Sep-2025 13:53
Lead	U		0.000470	0.00200	mg/L	1	23-Sep-2025 13:53
Magnesium	**30.9**		**0.0408**	**0.200**	**mg/L**	1	23-Sep-2025 13:53
Manganese	**0.0159**		**0.00190**	**0.00500**	**mg/L**	1	23-Sep-2025 13:53
Nickel	U		0.00130	0.00500	mg/L	1	23-Sep-2025 13:53
Potassium	**36.3**		**4.34**	**25.0**	**mg/L**	50	23-Sep-2025 15:12
Sodium	**969**		**6.50**	**25.0**	**mg/L**	50	23-Sep-2025 15:12
Strontium	**6.41**		**0.0150**	**0.250**	**mg/L**	50	23-Sep-2025 15:12
Vanadium	U		0.000600	0.00500	mg/L	1	23-Sep-2025 13:53
Zinc	**0.0124**		**0.00300**	**0.0100**	**mg/L**	1	23-Sep-2025 13:53
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 22-Sep-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	22-Sep-2025 20:16
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	U		0.500	1.00	mg/L	1	22-Sep-2025 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**3,300**		**3.00**	**10.0**	**mg/L**	1	20-Sep-2025 09:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**2.10**	J	**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:27
Alkalinity, Carbonate (As CaCO3)	**9.60**		**1.20**	**5.00**	**mg/L**	1	19-Sep-2025 18:27
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	22-Sep-2025 16:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**9.42**	H	**0.100**	**1.00**	**pH Units**	1	19-Sep-2025 18:27
Temp Deg C @pH	**22.5**	H	**0**	**0**	**°C**	1	19-Sep-2025 18:27
ANIONS BY SW9056A		**Method:SW9056**					Analyst: HB
Bromide	**1.35**		**0.0300**	**0.100**	**mg/L**	1	21-Sep-2025 12:04
Chloride	**1,740**		**10.0**	**25.0**	**mg/L**	50	21-Sep-2025 13:18
Sulfate	**428**		**10.0**	**25.0**	**mg/L**	50	21-Sep-2025 13:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-001
Collection Date: 18-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: AKP
Benzene	U		0.00028	0.0010	mg/L	1	20-Sep-2025 07:07
Ethylbenzene	U		0.00033	0.0020	mg/L	1	20-Sep-2025 07:07
m,p-Xylene	U		0.00061	0.0040	mg/L	1	20-Sep-2025 07:07
o-Xylene	U		0.00031	0.0020	mg/L	1	20-Sep-2025 07:07
Toluene	U		0.00033	0.0020	mg/L	1	20-Sep-2025 07:07
Xylenes, Total	U		0.00092	0.0060	mg/L	1	20-Sep-2025 07:07
Surr: 1,2-Dichloroethane-d4	*117*			*70-126*	*%REC*	*1*	*20-Sep-2025 07:07*
Surr: 4-Bromofluorobenzene	*109*			*77-113*	*%REC*	*1*	*20-Sep-2025 07:07*
Surr: Dibromofluoromethane	*110*			*77-123*	*%REC*	*1*	*20-Sep-2025 07:07*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*20-Sep-2025 07:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-322
Collection Date: 18-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	20-Sep-2025 07:27
Ethylbenzene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 07:27
m,p-Xylene		U	0.00061	0.0040	mg/L	1	20-Sep-2025 07:27
o-Xylene		U	0.00031	0.0020	mg/L	1	20-Sep-2025 07:27
Toluene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 07:27
Xylenes, Total		U	0.00092	0.0060	mg/L	1	20-Sep-2025 07:27
Surr: 1,2-Dichloroethane-d4	*120*			*70-126*	*%REC*	*1*	*20-Sep-2025 07:27*
Surr: 4-Bromofluorobenzene	*106*			*77-113*	*%REC*	*1*	*20-Sep-2025 07:27*
Surr: Dibromofluoromethane	*110*			*77-123*	*%REC*	*1*	*20-Sep-2025 07:27*
Surr: Toluene-d8	*99.3*			*82-127*	*%REC*	*1*	*20-Sep-2025 07:27*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-309
Collection Date: 18-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25090865
Lab ID:HS25090865-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene		U	0.00028	0.0010	mg/L	1	20-Sep-2025 07:48
Ethylbenzene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 07:48
m,p-Xylene		U	0.00061	0.0040	mg/L	1	20-Sep-2025 07:48
o-Xylene		U	0.00031	0.0020	mg/L	1	20-Sep-2025 07:48
Toluene		U	0.00033	0.0020	mg/L	1	20-Sep-2025 07:48
Xylenes, Total		U	0.00092	0.0060	mg/L	1	20-Sep-2025 07:48
Surr: 1,2-Dichloroethane-d4	*115*			*70-126*	*%REC*	*1*	*20-Sep-2025 07:48*
Surr: 4-Bromofluorobenzene	*108*			*77-113*	*%REC*	*1*	*20-Sep-2025 07:48*
Surr: Dibromofluoromethane	*109*			*77-123*	*%REC*	*1*	*20-Sep-2025 07:48*
Surr: Toluene-d8	*100*			*82-127*	*%REC*	*1*	*20-Sep-2025 07:48*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

Batch ID: 233136 **Start Date:** 19 Sep 2025 13:13 **End Date:** 19 Sep 2025 13:13
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25090865-01		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090865-02		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090865-03		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090865-04		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090865-05		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090865-06		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25090865-07		1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 233216 **Start Date:** 22 Sep 2025 08:00 **End Date:** 22 Sep 2025 08:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25090865-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-07		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 233221 **Start Date:** 22 Sep 2025 10:00 **End Date:** 22 Sep 2025 10:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25090865-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25090865-07		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 233136 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00		19 Sep 2025 13:13	21 Sep 2025 12:15	1
HS25090865-01	MW-2-200	17 Sep 2025 09:00		19 Sep 2025 13:13	21 Sep 2025 12:15	1
HS25090865-02	FB-091725	17 Sep 2025 10:20		19 Sep 2025 13:13	21 Sep 2025 12:44	1
HS25090865-02	FB-091725	17 Sep 2025 10:20		19 Sep 2025 13:13	21 Sep 2025 12:44	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30		19 Sep 2025 13:13	21 Sep 2025 13:13	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30		19 Sep 2025 13:13	21 Sep 2025 13:13	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15		19 Sep 2025 13:13	21 Sep 2025 14:39	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15		19 Sep 2025 13:13	21 Sep 2025 14:39	1
HS25090865-05	FB-091825	18 Sep 2025 08:45		19 Sep 2025 13:13	21 Sep 2025 15:08	1
HS25090865-05	FB-091825	18 Sep 2025 08:45		19 Sep 2025 13:13	21 Sep 2025 15:08	1
HS25090865-06	019-580	18 Sep 2025 07:40		19 Sep 2025 13:13	21 Sep 2025 15:37	1
HS25090865-06	019-580	18 Sep 2025 07:40		19 Sep 2025 13:13	21 Sep 2025 15:37	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15		19 Sep 2025 13:13	21 Sep 2025 04:02	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15		19 Sep 2025 13:13	21 Sep 2025 04:02	1
Batch ID: 233216 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00		22 Sep 2025 08:00	23 Sep 2025 14:51	1
HS25090865-02	FB-091725	17 Sep 2025 10:20		22 Sep 2025 08:00	23 Sep 2025 14:53	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30		22 Sep 2025 08:00	23 Sep 2025 14:55	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15		22 Sep 2025 08:00	23 Sep 2025 15:10	20
HS25090865-04	MW-3-700	17 Sep 2025 16:15		22 Sep 2025 08:00	23 Sep 2025 14:57	1
HS25090865-05	FB-091825	18 Sep 2025 08:45		22 Sep 2025 08:00	23 Sep 2025 14:59	1
HS25090865-06	019-580	18 Sep 2025 07:40		22 Sep 2025 08:00	23 Sep 2025 15:01	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15		22 Sep 2025 08:00	23 Sep 2025 15:12	50
HS25090865-07	MW-3-500	18 Sep 2025 09:15		22 Sep 2025 08:00	23 Sep 2025 13:53	1
Batch ID: 233221 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00		22 Sep 2025 10:00	22 Sep 2025 20:05	1
HS25090865-02	FB-091725	17 Sep 2025 10:20		22 Sep 2025 10:00	22 Sep 2025 20:07	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30		22 Sep 2025 10:00	22 Sep 2025 20:09	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15		22 Sep 2025 10:00	22 Sep 2025 20:11	1
HS25090865-05	FB-091825	18 Sep 2025 08:45		22 Sep 2025 10:00	22 Sep 2025 20:12	1
HS25090865-06	019-580	18 Sep 2025 07:40		22 Sep 2025 10:00	22 Sep 2025 20:14	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15		22 Sep 2025 10:00	22 Sep 2025 20:16	1
Batch ID: R522180 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25090865-07	MW-3-500	18 Sep 2025 09:15			20 Sep 2025 09:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R522204 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25090865-02	FB-091725	17 Sep 2025 10:20			20 Sep 2025 06:25	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			20 Sep 2025 09:53	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			20 Sep 2025 10:14	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			20 Sep 2025 06:46	1
HS25090865-06	019-580	18 Sep 2025 07:40			20 Sep 2025 10:35	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			20 Sep 2025 10:55	1
HS25090865-08	CG-081225-001	18 Sep 2025 00:00			20 Sep 2025 07:07	1
HS25090865-09	CG-081225-322	18 Sep 2025 00:00			20 Sep 2025 07:27	1
HS25090865-10	CG-081225-309	18 Sep 2025 00:00			20 Sep 2025 07:48	1
Batch ID: R522228 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			19 Sep 2025 18:01	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			19 Sep 2025 18:05	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			19 Sep 2025 18:10	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			19 Sep 2025 18:17	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			19 Sep 2025 18:21	1
HS25090865-06	019-580	18 Sep 2025 07:40			19 Sep 2025 18:52	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			19 Sep 2025 18:27	1
Batch ID: R522230 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			19 Sep 2025 18:01	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			19 Sep 2025 18:05	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			19 Sep 2025 18:10	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			19 Sep 2025 18:17	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			19 Sep 2025 18:21	1
HS25090865-06	019-580	18 Sep 2025 07:40			19 Sep 2025 18:52	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			19 Sep 2025 18:27	1
Batch ID: R522248 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			21 Sep 2025 11:09	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			21 Sep 2025 11:18	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			21 Sep 2025 13:09	50
HS25090865-04	MW-3-700	17 Sep 2025 16:15			21 Sep 2025 11:37	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			21 Sep 2025 11:46	1
HS25090865-06	019-580	18 Sep 2025 07:40			21 Sep 2025 11:55	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			21 Sep 2025 13:18	50
HS25090865-07	MW-3-500	18 Sep 2025 09:15			21 Sep 2025 12:04	1
Batch ID: R522272 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25090865-03	MW-2-700	17 Sep 2025 10:30			22 Sep 2025 13:22	2

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R522319 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			22 Sep 2025 16:00	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			22 Sep 2025 16:00	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			22 Sep 2025 16:00	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			22 Sep 2025 16:00	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			22 Sep 2025 16:00	1
HS25090865-06	019-580	18 Sep 2025 07:40			22 Sep 2025 16:00	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			22 Sep 2025 16:00	1
Batch ID: R522341 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			22 Sep 2025 16:00	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			22 Sep 2025 16:00	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			22 Sep 2025 16:00	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			22 Sep 2025 16:00	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			22 Sep 2025 16:00	1
HS25090865-06	019-580	18 Sep 2025 07:40			22 Sep 2025 16:00	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			22 Sep 2025 16:00	1
Batch ID: R522366 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			23 Sep 2025 12:31	1
Batch ID: R522451 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25090865-03	MW-2-700	17 Sep 2025 10:30			23 Sep 2025 21:24	1
Batch ID: R522475 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			24 Sep 2025 09:00	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			24 Sep 2025 09:00	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			24 Sep 2025 09:00	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			24 Sep 2025 09:00	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			24 Sep 2025 09:00	1
HS25090865-06	019-580	18 Sep 2025 07:40			24 Sep 2025 09:00	1
Batch ID: R522649 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			25 Sep 2025 05:50	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			24 Sep 2025 20:48	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			25 Sep 2025 06:29	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			25 Sep 2025 08:25	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			24 Sep 2025 21:27	1
HS25090865-06	019-580	18 Sep 2025 07:40			25 Sep 2025 09:04	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			25 Sep 2025 09:42	25

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R522653 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25090865-01	MW-2-200	17 Sep 2025 09:00			25 Sep 2025 05:50	1
HS25090865-02	FB-091725	17 Sep 2025 10:20			24 Sep 2025 20:48	1
HS25090865-03	MW-2-700	17 Sep 2025 10:30			25 Sep 2025 06:29	1
HS25090865-04	MW-3-700	17 Sep 2025 16:15			25 Sep 2025 08:25	1
HS25090865-05	FB-091825	18 Sep 2025 08:45			24 Sep 2025 21:27	1
HS25090865-06	019-580	18 Sep 2025 07:40			25 Sep 2025 09:04	1
HS25090865-07	MW-3-500	18 Sep 2025 09:15			25 Sep 2025 09:42	25

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233136 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:05**
Client ID: Run ID: **FID23_522356** SeqNo: **9045197** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.0276*	*0*	*0.04*	*0*	*69.0*	*40 - 140*				

MBLK Sample ID: **MBLK-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:05**
Client ID: Run ID: **FID-22_522357** SeqNo: **9045226** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.04067*	*0*	*0.04*	*0*	*102*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03919*	*0*	*0.04*	*0*	*98.0*	*40 - 140*				
Surr: o-Terphenyl	*0.03423*	*0*	*0.04*	*0*	*85.6*	*40 - 140*				

LCS Sample ID: **LCS-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:34**
Client ID: Run ID: **FID23_522356** SeqNo: **9045198** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.0464	0.100	0.05	0	92.8	40 - 140				J
Aliphatics >C12 - C16	0.09561	0.100	0.1	0	95.6	40 - 140				J
Aliphatics >C16 - C35	0.3649	0.100	0.4	0	91.2	40 - 140				
Surr: 1-Chlorooctadecane	*0.02643*	*0*	*0.04*	*0*	*66.1*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233136 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-233136** Units: **mg/L** Analysis Date: **21-Sep-2025 03:34**
Client ID: Run ID: **FID-22_522357** SeqNo: **9045227** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04466	0.100	0.05	0	89.3	40 - 140				J
Aromatics >C12 - C16	0.1717	0.100	0.2	0	85.9	40 - 140				
Aromatics >C16 - C21	0.1364	0.100	0.15	0	91.0	40 - 140				
Aromatics >C21 - C35	0.3941	0.100	0.45	0	87.6	40 - 140				
Surr: 2-Bromonaphthalene	*0.0364*	*0*	*0.04*	*0*	*91.0*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03529*	*0*	*0.04*	*0*	*88.2*	*40 - 140*				
Surr: o-Terphenyl	*0.02991*	*0*	*0.04*	*0*	*74.8*	*40 - 140*				

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **21-Sep-2025 04:31**
Client ID: **MW-3-500** Run ID: **FID23_522356** SeqNo: **9045200** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.05559	0.100	0.05	0	111	40 - 140				J
Aliphatics >C12 - C16	0.116	0.100	0.1	0	116	40 - 140				
Aliphatics >C16 - C35	0.4439	0.100	0.4	0	111	40 - 140				
Surr: 1-Chlorooctadecane	*0.03113*	*0*	*0.04*	*0*	*77.8*	*40 - 140*				

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **21-Sep-2025 04:31**
Client ID: **MW-3-500** Run ID: **FID-22_522357** SeqNo: **9045229** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.06485	0.100	0.05	0.01847	92.8	40 - 140				J
Aromatics >C12 - C16	0.2141	0.100	0.2	0.01883	97.6	40 - 140				
Aromatics >C16 - C21	0.1676	0.100	0.15	0	112	40 - 140				
Aromatics >C21 - C35	0.4866	0.100	0.45	0	108	40 - 140				
Surr: 2-Bromonaphthalene	*0.03966*	*0*	*0.04*	*0*	*99.1*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03832*	*0*	*0.04*	*0*	*95.8*	*40 - 140*				
Surr: o-Terphenyl	*0.03464*	*0*	*0.04*	*0*	*86.6*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233136 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **21-Sep-2025 05:02**
Client ID: **MW-3-500** Run ID: **FID23_522356** SeqNo: **9045201** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04645	0.100	0.05	0	92.9	40 - 140	0.05559	0	50	J
Aliphatics >C12 - C16	0.1005	0.100	0.1	0	101	40 - 140	0.116	14.3	50	
Aliphatics >C16 - C35	0.3847	0.100	0.4	0	96.2	40 - 140	0.4439	14.3	50	
Surr: 1-Chlorooctadecane	*0.02692*	*0*	*0.04*	*0*	*67.3*	*40 - 140*	*0.03113*	*14.5*	*50*	

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **21-Sep-2025 05:02**
Client ID: **MW-3-500** Run ID: **FID-22_522357** SeqNo: **9045230** PrepDate: **19-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05583	0.100	0.05	0.01847	74.7	40 - 140	0.06485	0	50	J
Aromatics >C12 - C16	0.1967	0.100	0.2	0.01883	89.0	40 - 140	0.2141	8.43	50	
Aromatics >C16 - C21	0.1561	0.100	0.15	0	104	40 - 140	0.1676	7.08	50	
Aromatics >C21 - C35	0.4564	0.100	0.45	0	101	40 - 140	0.4866	6.41	50	
Surr: 2-Bromonaphthalene	*0.03864*	*0*	*0.04*	*0*	*96.6*	*40 - 140*	*0.03966*	*2.59*	*50*	
Surr: 2-Fluorobiphenyl	*0.03761*	*0*	*0.04*	*0*	*94.0*	*40 - 140*	*0.03832*	*1.85*	*50*	
Surr: o-Terphenyl	*0.03237*	*0*	*0.04*	*0*	*80.9*	*40 - 140*	*0.03464*	*6.75*	*50*	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522649 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:52**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052320** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2778*	*0.0100*	*0.25*	*0*	*111*	*70 - 130*				

LCS Sample ID: **LCS-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 17:34**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052318** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.03109	0.00500	0.025	0	124	70 - 130				
Aliphatics >C8 - C10	0.02605	0.00500	0.025	0	104	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2619*	*0.0100*	*0.25*	*0*	*105*	*70 - 130*				

LCSD Sample ID: **LCSD-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:13**
Client ID: Run ID: **FID-14_522649** SeqNo: **9052319** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02496	0.00500	0.025	0	99.8	70 - 130	0.03109	21.9	25	
Aliphatics >C8 - C10	0.02787	0.00500	0.025	0	111	70 - 130	0.02605	6.74	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2332*	*0.0100*	*0.25*	*0*	*93.3*	*70 - 130*	*0.2619*	*11.6*	*25*	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **25-Sep-2025 10:21**
Client ID: **MW-3-500** Run ID: **FID-14_522649** SeqNo: **9052342** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	1.856	0.125	0.625	1.675	29.0	70 - 130				S
Aliphatics >C8 - C10	0.3919	0.125	0.625	0	62.7	70 - 130				S
Surr: 2,5-Dibromotoluene (Aliphatic)	*5.981*	*0.250*	*6.25*	*0*	*95.7*	*70 - 130*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522649 (0) **Instrument:** FID-14 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **25-Sep-2025 11:00**
Client ID: **MW-3-500** Run ID: **FID-14_522649** SeqNo: **9052343** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	1.929	0.125	0.625	1.675	40.7	70 - 130	1.856	3.87	25	S
Aliphatics >C8 - C10	0.2884	0.125	0.625	0	46.1	70 - 130	0.3919	30.4	25	SR
Surr: 2,5-Dibromotoluene (Aliphatic)	*5.732*	*0.250*	*6.25*	*0*	*91.7*	*70 - 130*	*5.981*	*4.25*	*25*	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522653 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:52**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052525** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2599*	*0.0100*	*0.25*	*0*	*104*	*70 - 130*				

LCS Sample ID: **LCS-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 17:34**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052523** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0856	0.0200	0.1	0	85.6	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.244*	*0.0100*	*0.25*	*0*	*97.6*	*70 - 130*				

LCSD Sample ID: **LCSD-250924** Units: **mg/L** Analysis Date: **24-Sep-2025 18:13**
Client ID: Run ID: **FID-15_522653** SeqNo: **9052524** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0723	0.0200	0.1	0	72.3	70 - 130	0.0856	16.8	25	
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2166*	*0.0100*	*0.25*	*0*	*86.7*	*70 - 130*	*0.244*	*11.9*	*25*	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **25-Sep-2025 10:21**
Client ID: **MW-3-500** Run ID: **FID-15_522653** SeqNo: **9052547** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	1.031	0.500	2.5	0	41.2	70 - 130				S
Surr: 2,5-Dibromotoluene (Aromatic)	*5.567*	*0.250*	*6.25*	*0*	*89.1*	*70 - 130*				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **25-Sep-2025 11:00**
Client ID: **MW-3-500** Run ID: **FID-15_522653** SeqNo: **9052548** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.5792	0.500	2.5	0	23.2	70 - 130	1.031	56.1	25	SR
Surr: 2,5-Dibromotoluene (Aromatic)	*5.357*	*0.250*	*6.25*	*0*	*85.7*	*70 - 130*	*5.567*	*3.84*	*25*	

The following samples were analyzed in this batch:

HS25090865-01	HS25090865-02	HS25090865-03	HS25090865-04
HS25090865-05	HS25090865-06	HS25090865-07	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233216 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-233216** Units: **mg/L** Analysis Date: **23-Sep-2025 13:45**
Client ID: Run ID: **ICPMS06_522325** SeqNo: **9045487** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00500								
Calcium	U	0.500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00500								
Potassium	U	0.500								
Sodium	0.1405	0.500								J
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.0100								

LCS Sample ID: **LCS-233216** Units: **mg/L** Analysis Date: **23-Sep-2025 13:47**
Client ID: Run ID: **ICPMS06_522325** SeqNo: **9045488** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04927	0.00200	0.05	0	98.6	80 - 120				
Barium	0.04908	0.00500	0.05	0	98.2	80 - 120				
Calcium	4.975	0.500	5	0	99.5	80 - 120				
Chromium	0.04894	0.00500	0.05	0	97.9	80 - 120				
Iron	4.989	0.200	5	0	99.8	80 - 120				
Lead	0.04597	0.00200	0.05	0	91.9	80 - 120				
Magnesium	4.938	0.200	5	0	98.8	80 - 120				
Manganese	0.05003	0.00500	0.05	0	100	80 - 120				
Nickel	0.05026	0.00500	0.05	0	101	80 - 120				
Potassium	4.861	0.500	5	0	97.2	80 - 120				
Sodium	5.032	0.500	5	0	101	80 - 120				
Strontium	0.09931	0.00500	0.1	0	99.3	80 - 120				
Vanadium	0.04906	0.00500	0.05	0	98.1	80 - 120				
Zinc	0.05087	0.0100	0.05	0	102	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233216 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **23-Sep-2025 13:55**
Client ID: **MW-3-500** Run ID: **ICPMS06_522325** SeqNo: **9045492** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05208	0.00200	0.05	0.000278	104	80 - 120				
Barium	0.1853	0.00500	0.05	0.1257	119	80 - 120				
Calcium	185.9	0.500	5	171	298	80 - 120				SEO
Chromium	0.05483	0.00500	0.05	0.003749	102	80 - 120				
Iron	5.879	0.200	5	0.6946	104	80 - 120				
Lead	0.04866	0.00200	0.05	0.00003	97.3	80 - 120				
Magnesium	38.82	0.200	5	30.93	158	80 - 120				SO
Manganese	0.06837	0.00500	0.05	0.01586	105	80 - 120				
Nickel	0.0492	0.00500	0.05	0.000399	97.6	80 - 120				
Potassium	44.89	0.500	5	36.49	168	80 - 120				SO
Sodium	1098	0.500	5	1007	1810	80 - 120				SEO
Strontium	6.629	0.00500	0.1	5.955	674	80 - 120				SEO
Vanadium	0.05256	0.00500	0.05	-0.000019	105	80 - 120				
Zinc	0.05973	0.0100	0.05	0.01235	94.8	80 - 120				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **23-Sep-2025 13:57**
Client ID: **MW-3-500** Run ID: **ICPMS06_522325** SeqNo: **9045493** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0527	0.00200	0.05	0.000278	105	80 - 120	0.05208	1.19	20	
Barium	0.183	0.00500	0.05	0.1257	115	80 - 120	0.1853	1.27	20	
Calcium	191.3	0.500	5	171	406	80 - 120	185.9	2.85	20	SEO
Chromium	0.05477	0.00500	0.05	0.003749	102	80 - 120	0.05483	0.1	20	
Iron	5.882	0.200	5	0.6946	104	80 - 120	5.879	0.0416	20	
Lead	0.04876	0.00200	0.05	0.00003	97.5	80 - 120	0.04866	0.203	20	
Magnesium	39.37	0.200	5	30.93	169	80 - 120	38.82	1.41	20	SO
Manganese	0.0684	0.00500	0.05	0.01586	105	80 - 120	0.06837	0.0483	20	
Nickel	0.04972	0.00500	0.05	0.000399	98.6	80 - 120	0.0492	1.04	20	
Potassium	45.6	0.500	5	36.49	182	80 - 120	44.89	1.58	20	SO
Sodium	1113	0.500	5	1007	2120	80 - 120	1098	1.37	20	SEO
Strontium	6.549	0.00500	0.1	5.955	594	80 - 120	6.629	1.21	20	SEO
Vanadium	0.05318	0.00500	0.05	-0.000019	106	80 - 120	0.05256	1.17	20	
Zinc	0.05947	0.0100	0.05	0.01235	94.2	80 - 120	0.05973	0.445	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233216 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25090865-07PDS** Units: **mg/L** Analysis Date: **23-Sep-2025 14:02**
Client ID: **MW-3-500** Run ID: **ICPMS06_522325** SeqNo: **9045495** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1035	0.00200	0.1	0.000278	103	75 - 125				
Barium	0.2322	0.00500	0.1	0.1257	107	75 - 125				
Chromium	0.1042	0.00500	0.1	0.003749	100	75 - 125				
Iron	10.79	0.200	10	0.6946	101	75 - 125				
Lead	0.09678	0.00200	0.1	0.00003	96.8	75 - 125				
Magnesium	43.41	0.200	10	30.93	125	75 - 125				
Manganese	0.1168	0.00500	0.1	0.01586	101	75 - 125				
Nickel	0.09517	0.00500	0.1	0.000399	94.8	75 - 125				
Vanadium	0.1028	0.00500	0.1	-0.000019	103	75 - 125				
Zinc	0.1075	0.0100	0.1	0.01235	95.1	75 - 125				

PDS Sample ID: **HS25090865-07PDS** Units: **mg/L** Analysis Date: **23-Sep-2025 15:16**
Client ID: **MW-3-500** Run ID: **ICPMS06_522325** SeqNo: **9045710** PrepDate: **22-Sep-2025** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	636.8	25.0	500	163.3	94.7	75 - 125				
Potassium	503.5	25.0	500	36.3	93.4	75 - 125				
Sodium	1438	25.0	500	968.5	94.0	75 - 125				
Strontium	10.82	0.250	5	6.409	88.3	75 - 125				

SD Sample ID: **HS25090865-07SD** Units: **mg/L** Analysis Date: **23-Sep-2025 13:49**
Client ID: **MW-3-500** Run ID: **ICPMS06_522325** SeqNo: **9045489** PrepDate: **22-Sep-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.000278	0	10	
Barium	0.1265	0.0250					0.1257	0.644	10	
Chromium	U	0.0250					0.003749	0	10	
Iron	0.7021	1.00					0.6946	0	10	J
Lead	U	0.0100					0.00003	0	10	
Magnesium	29.91	1.00					30.93	3.28	10	
Manganese	0.01502	0.0250					0.01586	0	10	J
Nickel	U	0.0250					0.000399	0	10	
Vanadium	U	0.0250					-0.000019	0	10	
Zinc	U	0.0500					0.01235	0	10	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233216 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

SD Sample ID: **HS25090865-07SD** Units: **mg/L** Analysis Date: **23-Sep-2025 15:14**
Client ID: **MW-3-500** Run ID: **ICPMS06_522325** SeqNo: **9045696** PrepDate: **22-Sep-2025** DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Calcium	164	125					163.3	0.423	10	
Potassium	42.61	125					36.3	0	10	J
Sodium	1034	125					968.5	6.73	10	
Strontium	6.268	1.25					6.409	2.2	10	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: 233221 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-233221** Units: **mg/L** Analysis Date: **22-Sep-2025 19:52**
Client ID: Run ID: **HG05_522288** SeqNo: **9043852** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U		0.000200								

LCS Sample ID: **LCS-233221** Units: **mg/L** Analysis Date: **22-Sep-2025 20:04**
Client ID: Run ID: **HG05_522288** SeqNo: **9043855** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00511	0.000200	0.005	0	102	80 - 120				

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **22-Sep-2025 20:17**
Client ID: **MW-3-500** Run ID: **HG05_522288** SeqNo: **9043863** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00527	0.000200	0.005	0.000011	105	75 - 125				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **22-Sep-2025 20:19**
Client ID: **MW-3-500** Run ID: **HG05_522288** SeqNo: **9043864** PrepDate: **22-Sep-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00521	0.000200	0.005	0.000011	104	75 - 125	0.00527	1.15	20	

The following samples were analyzed in this batch:

HS25090865-01	HS25090865-02	HS25090865-03	HS25090865-04
HS25090865-05	HS25090865-06	HS25090865-07	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522204 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250920** Units: **mg/L** Analysis Date: **20-Sep-2025 06:04**
Client ID: Run ID: **VOA4_522204** SeqNo: **9041937** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.057*	*0.0010*	*0.05*	*0*	*114*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.054*	*0.0010*	*0.05*	*0*	*107*	*77 - 113*				
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*108*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.7*	*81 - 120*				

LCS Sample ID: **LCS-250920** Units: **mg/L** Analysis Date: **20-Sep-2025 05:02**
Client ID: Run ID: **VOA4_522204** SeqNo: **9041935** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	97.0	74 - 120				
Ethylbenzene	0.018	0.0020	0.02	0	89.0	77 - 117				
m,p-Xylene	0.035	0.0040	0.04	0	88.3	77 - 122				
o-Xylene	0.018	0.0020	0.02	0	89.9	75 - 119				
Toluene	0.018	0.0020	0.02	0	91.5	77 - 118				
Xylenes, Total	0.053	0.0060	0.06	0	88.8	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.061*	*0.0010*	*0.05*	*0*	*122*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*				
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*107*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*99.8*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522204 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250920** Units: **mg/L** Analysis Date: **20-Sep-2025 05:22**
Client ID: Run ID: **VOA4_522204** SeqNo: **9041936** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	93.9	74 - 120	0.01941	3.28	20	
Ethylbenzene	0.017	0.0020	0.02	0	86.5	77 - 117	0.01779	2.82	20	
m,p-Xylene	0.033	0.0040	0.04	0	83.7	77 - 122	0.03530	5.27	20	
o-Xylene	0.018	0.0020	0.02	0	88.4	75 - 119	0.01798	1.66	20	
Toluene	0.018	0.0020	0.02	0	88.7	77 - 118	0.01830	3.08	20	
Xylenes, Total	0.051	0.0060	0.06	0	85.3	75 - 122	0.05328	4.04	20	
Surr: 1,2-Dichloroethane-d4	*0.060*	*0.0010*	*0.05*	*0*	*121*	*70 - 123*	*0.06078*	*0.657*	*20*	
Surr: 4-Bromofluorobenzene	*0.053*	*0.0010*	*0.05*	*0*	*105*	*77 - 113*	*0.05250*	*0.42*	*20*	
Surr: Dibromofluoromethane	*0.054*	*0.0010*	*0.05*	*0*	*108*	*73 - 126*	*0.05370*	*0.555*	*20*	
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*	*0.04988*	*1.49*	*20*	

The following samples were analyzed in this batch: HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07 HS25090865-08 HS25090865-09 HS25090865-10

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522366 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK-250923** Units: **mg/L** Analysis Date: **23-Sep-2025 11:05**
Client ID: Run ID: **VOA7_522366** SeqNo: **9045516** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.046*	*0.0010*	*0.05*	*0*	*91.0*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.052*	*0.0010*	*0.05*	*0*	*104*	*77 - 113*				
Surr: Dibromofluoromethane	*0.048*	*0.0010*	*0.05*	*0*	*97.0*	*73 - 126*				
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*				

LCS Sample ID: **LCS-250923** Units: **mg/L** Analysis Date: **23-Sep-2025 10:00**
Client ID: Run ID: **VOA7_522366** SeqNo: **9045514** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	98.0	74 - 120				
Ethylbenzene	0.021	0.0020	0.02	0	105	77 - 117				
m,p-Xylene	0.042	0.0040	0.04	0	104	77 - 122				
o-Xylene	0.021	0.0020	0.02	0	106	75 - 119				
Toluene	0.020	0.0020	0.02	0	101	77 - 118				
Xylenes, Total	0.063	0.0060	0.06	0	105	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.047*	*0.0010*	*0.05*	*0*	*94.1*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.049*	*0.0010*	*0.05*	*0*	*98.3*	*77 - 113*				
Surr: Dibromofluoromethane	*0.049*	*0.0010*	*0.05*	*0*	*97.1*	*73 - 126*				
Surr: Toluene-d8	*0.050*	*0.0010*	*0.05*	*0*	*101*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522366 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD-250923** Units: **mg/L** Analysis Date: **23-Sep-2025 10:22**
Client ID: Run ID: **VOA7_522366** SeqNo: **9045515** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.019	0.0010	0.02	0	96.6	74 - 120	0.01960	1.47	20	
Ethylbenzene	0.020	0.0020	0.02	0	101	77 - 117	0.02094	3.75	20	
m,p-Xylene	0.040	0.0040	0.04	0	101	77 - 122	0.04177	3.59	20	
o-Xylene	0.021	0.0020	0.02	0	105	75 - 119	0.02121	1.4	20	
Toluene	0.020	0.0020	0.02	0	98.5	77 - 118	0.02021	2.59	20	
Xylenes, Total	0.061	0.0060	0.06	0	102	75 - 122	0.06298	2.85	20	
Surr: 1,2-Dichloroethane-d4	*0.047*	*0.0010*	*0.05*	*0*	*94.7*	*70 - 123*	*0.04704*	*0.634*	*20*	
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*99.4*	*77 - 113*	*0.04913*	*1.12*	*20*	
Surr: Dibromofluoromethane	*0.049*	*0.0010*	*0.05*	*0*	*98.0*	*73 - 126*	*0.04853*	*0.947*	*20*	
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*	*0.05046*	*1.11*	*20*	

The following samples were analyzed in this batch: HS25090865-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522180 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-09202025** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522180** SeqNo: **9041348** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-09202025** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522180** SeqNo: **9041347** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	936	10.0	1000	0	93.6	85 - 115				

DUP Sample ID: **HS25090875-02DUP** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522180** SeqNo: **9041343** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	3280	10.0					2900	12.3	20	

DUP Sample ID: **HS25090865-07DUP** Units: **mg/L** Analysis Date: **20-Sep-2025 09:00**
Client ID: **MW-3-500** Run ID: **Balance1_522180** SeqNo: **9041340** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	3240	10.0					3300	1.83	20	

The following samples were analyzed in this batch: HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522228 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-09.19.2025** Units: **mg/L** Analysis Date: **19-Sep-2025 17:43**
Client ID: Run ID: **Skalar 03_522228** SeqNo: **9042409** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-09.19.2025** Units: **mg/L** Analysis Date: **19-Sep-2025 17:49**
Client ID: Run ID: **Skalar 03_522228** SeqNo: **9042410** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	982	5.00	1000	0	98.2	85 - 115				

LCSD Sample ID: **LCSD-09.19.2025** Units: **mg/L** Analysis Date: **19-Sep-2025 17:55**
Client ID: Run ID: **Skalar 03_522228** SeqNo: **9042411** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	985.2	5.00	1000	0	98.5	85 - 115	982	0.325	20	

DUP Sample ID: **HS25090865-07DUP** Units: **mg/L** Analysis Date: **19-Sep-2025 18:33**
Client ID: **MW-3-500** Run ID: **Skalar 03_522228** SeqNo: **9042418** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1.9	5.00					2.1	0	20	J
Alkalinity, Carbonate (As CaCO3)	9.8	5.00					9.6	2.06	20	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: **R522230 (0)** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25090865-07DUP** Units: **pH Units** Analysis Date: **19-Sep-2025 18:33**
Client ID: **MW-3-500** Run ID: **Skalar 03_522230** SeqNo: **9042453** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.43	1.00					9.42	0.106	10	
Temp Deg C @pH	22.4	0					22.5	0.445	10	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522248 (0) **Instrument:** ICS-04 **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **21-Sep-2025 08:51**
Client ID: Run ID: **ICS-04_522248** SeqNo: **9042801** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **21-Sep-2025 09:00**
Client ID: Run ID: **ICS-04_522248** SeqNo: **9042802** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.113	0.100	4	0	103	80 - 120				
Chloride	20.65	0.500	20	0	103	80 - 120				
Sulfate	20.92	0.500	20	0	105	80 - 120				

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **21-Sep-2025 12:50**
Client ID: **MW-3-500** Run ID: **ICS-04_522248** SeqNo: **9042824** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.396	0.100	2	1.347	102	80 - 120				
Chloride	1612	0.500	10	1659	-462	80 - 120				SEO
Sulfate	424.9	0.500	10	430.5	-56.0	80 - 120				SEO

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **21-Sep-2025 13:00**
Client ID: **MW-3-500** Run ID: **ICS-04_522248** SeqNo: **9042825** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.467	0.100	2	1.347	106	80 - 120	3.396	2.05	20	
Chloride	1634	0.500	10	1659	-249	80 - 120	1612	1.31	20	SEO
Sulfate	431	0.500	10	430.5	4.60	80 - 120	424.9	1.42	20	SEO

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522272 (0) **Instrument: ICS-04** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **22-Sep-2025 13:41**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043309** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.2	0.500								J

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **22-Sep-2025 11:40**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043298** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.46	0.500	20	0	102	80 - 120				

MS Sample ID: **HS25090868-01MS** Units: **mg/L** Analysis Date: **22-Sep-2025 12:45**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043304** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1137	5.00	100	1059	78.5	80 - 120				SEO

MSD Sample ID: **HS25090868-01MSD** Units: **mg/L** Analysis Date: **22-Sep-2025 12:55**
Client ID: Run ID: **ICS-04_522272** SeqNo: **9043305** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1136	5.00	100	1059	77.3	80 - 120	1137	0.104	20	SEO

The following samples were analyzed in this batch: HS25090865-03

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522319 (0) **Instrument:** WetChem_HS **Method:** SULFIDE BY SM4500 S2-F

MBLK Sample ID: **MBLK-R522319** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044839** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R522319** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044838** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.16	5.00	25	0	88.6	85 - 115				

LCSD Sample ID: **LCSD-R522319** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522319** SeqNo: **9044837** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.96	5.00	25	0	87.8	85 - 115	22.16	0.907	20	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: **MW-3-500** Run ID: **WetChem_HS_522319** SeqNo: **9044841** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.96	5.00	25	-2.64	98.4	80 - 120				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: **MW-3-500** Run ID: **WetChem_HS_522319** SeqNo: **9044840** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	21.56	5.00	25	-2.64	96.8	80 - 120	21.96	1.84	20	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522341 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R522341** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044875** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R522341** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044874** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.54	1.00	26.56	0	88.6	80 - 120				

LCSD Sample ID: **LCSD-R522341** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: Run ID: **WetChem_HS_522341** SeqNo: **9044873** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.33	1.00	26.56	0	87.8	80 - 120	23.54	0.907	20	

MS Sample ID: **HS25090865-07MS** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: **MW-3-500** Run ID: **WetChem_HS_522341** SeqNo: **9044904** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.33	1.00	26.56	-2.805	98.4	80 - 120				

MSD Sample ID: **HS25090865-07MSD** Units: **mg/L** Analysis Date: **22-Sep-2025 16:00**
Client ID: **MW-3-500** Run ID: **WetChem_HS_522341** SeqNo: **9044903** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	22.91	1.00	26.56	-2.805	96.8	80 - 120	23.33	1.84	20	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06 HS25090865-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522451 (0) **Instrument: ICS-04** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **23-Sep-2025 14:59**
Client ID: Run ID: **ICS-04_522451** SeqNo: **9047475** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **23-Sep-2025 15:11**
Client ID: Run ID: **ICS-04_522451** SeqNo: **9047476** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.108	0.100	4	0	103	80 - 120				
Sulfate	20.79	0.500	20	0	104	80 - 120				

MS Sample ID: **HS25090892-01MS** Units: **mg/L** Analysis Date: **23-Sep-2025 15:35**
Client ID: Run ID: **ICS-04_522451** SeqNo: **9047478** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	8.916	0.500	10	0	89.2	80 - 120				
Sulfate	79.22	2.50	50	30.46	97.5	80 - 120				

MSD Sample ID: **HS25090892-01MSD** Units: **mg/L** Analysis Date: **23-Sep-2025 15:47**
Client ID: Run ID: **ICS-04_522451** SeqNo: **9047479** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	8.966	0.500	10	0	89.7	80 - 120	8.916	0.554	20	
Sulfate	79.64	2.50	50	30.46	98.4	80 - 120	79.22	0.536	20	

The following samples were analyzed in this batch: HS25090865-03

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25090865

QC BATCH REPORT

Batch ID: R522475 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-09242025** Units: **mg/L** Analysis Date: **24-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522475** SeqNo: **9048027** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-09242025** Units: **mg/L** Analysis Date: **24-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522475** SeqNo: **9048026** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1030	10.0	1000	0	103	85 - 115				

DUP Sample ID: **HS25090966-01DUP** Units: **mg/L** Analysis Date: **24-Sep-2025 09:00**
Client ID: Run ID: **Balance1_522475** SeqNo: **9048021** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	400	10.0					430	7.23	20	

DUP Sample ID: **HS25090865-01DUP** Units: **mg/L** Analysis Date: **24-Sep-2025 09:00**
Client ID: **MW-2-200** Run ID: **Balance1_522475** SeqNo: **9048008** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	418	10.0					420	0.477	20	

The following samples were analyzed in this batch: HS25090865-01 HS25090865-02 HS25090865-03 HS25090865-04 HS25090865-05 HS25090865-06

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25090865**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
North Dakota	R-193 2023-2024	30-Sep-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	TX-C25-00104	30-Apr-2026

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25090865 **Date/Time Received:** **18-Sep-2025 16:00**

Client Name: ERMSW-HOU **Received by:** **Paresh M. Giga**

Completed By: */S/ Edgar Zheku* (eSignature) 18-Sep-2025 19:30 (Date/Time) **Reviewed by:** */S/ Alexis Dorenbosch* (eSignature) 19-Sep-2025 11:50 (Date/Time)

Matrices: **W** Carrier name: **Client**

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☑ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☑ Not Present
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present
Chain of custody present?	☑ Yes	☐ No	2 Page(s)
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC IDs:344918, 349994
Samplers name present on COC?	☑ Yes	☐ No	
Chain of custody agrees with sample labels?	☑ Yes	☐ No	
Samples in proper container/bottle?	☑ Yes	☐ No	
Sample containers intact?	☑ Yes	☐ No	
Sufficient sample volume for indicated test?	☑ Yes	☐ No	
All samples received within holding time?	☑ Yes	☐ No	
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No	

Temperature(s)/Thermometer(s):	1.1uc/1.1c, 0.8UC/0.8C, 0.5UC/0.5C	IR 37
Cooler(s)/Kit(s):	53371, 52061, 54325	
Date/Time sample(s) sent to storage:	09/18/2025 19:30	

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ N/A
pH adjusted?	☐ Yes	☑ No	☐ N/A
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 344918

HS25090865 WV

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Sulphur Dome
Work Order		Project Number	
Company Name	Environmental Resources Mgmt	Bill To Company	Environmental Resources Mgmt
Send Report To	Todd Peters	Invoice Attn	Nohemi Reyes
Address	10375 Richmond Ave, Suite 6	Address	10375 Richmond Ave, Suite 6
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston, TX 77042
Phone	(281) 600-1000	Phone	(281) 600-1000
Fax	(281) 600-1001	Fax	(281) 600-1001
e-Mail Address		e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-2-200	09/17/25	09:00	W	1,3,4,8	11	X	X	X	X	X	X	X	X	X	X	
2	FB-091725	09/17/25	10:20	W													
3	MW-2-700	09/17/25	10:30	W													
4	~~MW-3-200~~	~~09/17/25~~															
5	MW-3-700	09/17/25	16:15	W													
6	FB-091825	09/18/25	08:45	W													
7	019-580	09/18/25	07:40	W													
8	MW-3-500(MS/MSD)	09/18/25	09:15	W													
9																	
10																	

Sampler(s) Please Print & Sign: Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box) ☒ [illegible] ☐ [illegible] ☐ [illegible] ☐ [illegible]

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Zedric Cepus	9/18/25	11:00		EMM Sulphur Dome
Relinquished by:	Date:	Time:	Received by (Laboratory): 9/18/25	16:30
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
53371	1.1
52061	0.8
54325	0.5

QC Package: (Check One Box Below)

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

+37

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 349994

HS25090865

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0794035	Project Name	Sulphur Dome	A	8260_LL_W (Low Level VOC (8260) B TEX)
Work Order		Project Number		B	ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C	HG_W (Mercury)
Send Report To	Scott Himes	Invoice Attn	Accounts Payable	D	MA EPH_W_La (MA EPH)
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	E	MA VPH_LA_W
				F	9056_anions_W (Cl,SO4,Br) / pH
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	ALK_W 2320B (carb, bicarb)
Phone	(281) 600-1000	Phone	(281) 600-1000	H	H2S_W (H2S)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SULFD_4500S F (Sulfide)
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CG-081225-001	—	—	W	1	2	X										
2	CG-081225-322	—	—	↓	↓	↓	↓										
3	CG-081225-309	—	—	↓	↓	↓	↓										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Taylar Brown

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by: Jaime Capus	Date: 9/18/25	Time: 16:00	Received by:	
Relinquished by:	Date:	Time:	Received by (Laboratory): 9/18/25	16:00
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

October 03, 2025

Scott Himes
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS25091276**

Laboratory Results for: **Sulphur Dome**

Dear Scott Himes,

ALS Environmental received 3 sample(s) on Sep 26, 2025 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Alexis Dorenbosch

Generated By: DAYNA.FISHER
Alexis Dorenbosch
Project Manager

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Work Order: HS25091276

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS25091276-01	MW-3-200	Water		25-Sep-2025 14:10	26-Sep-2025 17:00	☐
HS25091276-02	FB-092525	Water		25-Sep-2025 14:30	26-Sep-2025 17:00	☐
HS25091276-03	CG-081225-323	Water	CG-081225-323	25-Sep-2025 00:00	26-Sep-2025 17:00	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25091276

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GC Semivolatiles by Method MA EPH

Batch ID: 233630

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatile Organics by Method MA VPH

Batch ID: R522979

Sample ID: LCSD-250929

• The RPD between the LCS and LCSD was outside of the control limit.

GC Volatiles by Method MA VPH

Batch ID: R522998

Sample ID: LCSD-250929

• The RPD between the LCS and LCSD was outside of the control limit.

GCMS Volatiles by Method SW8260

Batch ID: R522865

Sample ID: LCS

• Ethylbenzene was high in LCS, but not detected in associated samples.

Metals by Method SW6020A

Batch ID: 233730

Sample ID: HS25091331-01MS

• MS/MSD and DUPs are for an unrelated sample

Metals by Method SW7470A

Batch ID: 233703

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E376.1

Batch ID: R522869

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R522935

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt. **CASE NARRATIVE**
Project: Sulphur Dome
Work Order: HS25091276

WetChemistry by Method SW9056

Batch ID: R523193

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: R522867

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R522831

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R522830

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 25-Sep-2025 14:10

ANALYTICAL REPORT
WorkOrder:HS25091276
Lab ID:HS25091276-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: DP
Benzene		U	0.00028	0.0010	mg/L	1	29-Sep-2025 20:13
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Sep-2025 20:13
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Sep-2025 20:13
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Sep-2025 20:13
Toluene		U	0.00033	0.0020	mg/L	1	29-Sep-2025 20:13
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Sep-2025 20:13
Surr: 1,2-Dichloroethane-d4	*98.8*			*70-126*	*%REC*	*1*	*29-Sep-2025 20:13*
Surr: 4-Bromofluorobenzene	*102*			*77-113*	*%REC*	*1*	*29-Sep-2025 20:13*
Surr: Dibromofluoromethane	*99.6*			*77-123*	*%REC*	*1*	*29-Sep-2025 20:13*
Surr: Toluene-d8	*104*			*82-127*	*%REC*	*1*	*29-Sep-2025 20:13*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	30-Sep-2025 17:59
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	30-Sep-2025 17:59
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	30-Sep-2025 17:59
Surr: 2,5-Dibromotoluene (Aliphatic)	*93.7*			*70-130*	*%REC*	*1*	*30-Sep-2025 17:59*
Surr: 2,5-Dibromotoluene (Aromatic)	*87.4*			*70-130*	*%REC*	*1*	*30-Sep-2025 17:59*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 01-Oct-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:11
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:11
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:11
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:11
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:11
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:11
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:11
Surr: 1-Chlorooctadecane	*69.1*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:11*
Surr: 2-Bromonaphthalene	*85.6*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:11*
Surr: 2-Fluorobiphenyl	*83.9*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:11*
Surr: o-Terphenyl	*76.8*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:11*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: MW-3-200
Collection Date: 25-Sep-2025 14:10

ANALYTICAL REPORT
WorkOrder:HS25091276
Lab ID:HS25091276-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 02-Oct-2025		Analyst: JC
Arsenic	**0.00207**		**0.000510**	**0.00200**	**mg/L**	1	03-Oct-2025 11:22
Barium	**0.206**		**0.000750**	**0.00500**	**mg/L**	1	03-Oct-2025 11:22
Calcium	**16.7**		**0.120**	**0.500**	**mg/L**	1	03-Oct-2025 11:22
Chromium	U		0.00173	0.00500	mg/L	1	03-Oct-2025 11:22
Iron	**1.33**		**0.0600**	**0.200**	**mg/L**	1	03-Oct-2025 11:22
Lead	U		0.000470	0.00200	mg/L	1	03-Oct-2025 11:22
Magnesium	**3.47**		**0.0408**	**0.200**	**mg/L**	1	03-Oct-2025 11:22
Manganese	**0.0236**		**0.00190**	**0.00500**	**mg/L**	1	03-Oct-2025 11:22
Nickel	U		0.00130	0.00500	mg/L	1	03-Oct-2025 11:22
Potassium	**19.1**		**0.0869**	**0.500**	**mg/L**	1	03-Oct-2025 11:22
Sodium	**101**		**0.130**	**0.500**	**mg/L**	1	03-Oct-2025 11:22
Strontium	**0.275**		**0.000300**	**0.00500**	**mg/L**	1	03-Oct-2025 11:22
Vanadium	**0.000793**	J	**0.000600**	**0.00500**	**mg/L**	1	03-Oct-2025 11:22
Zinc	**0.00516**	J	**0.00300**	**0.0100**	**mg/L**	1	03-Oct-2025 11:22
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 02-Oct-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	02-Oct-2025 12:24
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**1.78**		**0.500**	**1.00**	**mg/L**	1	30-Sep-2025 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**412**		**3.00**	**10.0**	**mg/L**	1	30-Sep-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	**302**		**1.20**	**5.00**	**mg/L**	1	29-Sep-2025 19:23
Alkalinity, Carbonate (As CaCO3)	**12.0**		**1.20**	**5.00**	**mg/L**	1	29-Sep-2025 19:23
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	**1.68**	J	**0.920**	**5.00**	**mg/L**	1	30-Sep-2025 10:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**8.43**	H	**0.100**	**1.00**	**pH Units**	1	29-Sep-2025 19:23
Temp Deg C @pH	**21.7**	H	**0**	**0**	**°C**	1	29-Sep-2025 19:23
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	02-Oct-2025 10:37
Chloride	**22.5**		**0.200**	**0.500**	**mg/L**	1	02-Oct-2025 10:37
Sulfate	U		0.200	0.500	mg/L	1	02-Oct-2025 10:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-092525
Collection Date: 25-Sep-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25091276
Lab ID:HS25091276-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: DP
Benzene		U	0.00028	0.0010	mg/L	1	29-Sep-2025 16:54
Ethylbenzene		U	0.00033	0.0020	mg/L	1	29-Sep-2025 16:54
m,p-Xylene		U	0.00061	0.0040	mg/L	1	29-Sep-2025 16:54
o-Xylene		U	0.00031	0.0020	mg/L	1	29-Sep-2025 16:54
Toluene		U	0.00033	0.0020	mg/L	1	29-Sep-2025 16:54
Xylenes, Total		U	0.00092	0.0060	mg/L	1	29-Sep-2025 16:54
Surr: 1,2-Dichloroethane-d4	*96.9*			*70-126*	*%REC*	*1*	*29-Sep-2025 16:54*
Surr: 4-Bromofluorobenzene	*105*			*77-113*	*%REC*	*1*	*29-Sep-2025 16:54*
Surr: Dibromofluoromethane	*97.5*			*77-123*	*%REC*	*1*	*29-Sep-2025 16:54*
Surr: Toluene-d8	*105*			*82-127*	*%REC*	*1*	*29-Sep-2025 16:54*
MASSACHUSETTS VPH, FEB 2018, REV 2.1		**Method:MA VPH**					Analyst: LC
Aliphatics >C6 - C8		U	0.00180	0.00500	mg/L	1	30-Sep-2025 18:38
Aliphatics >C8 - C10		U	0.000400	0.00500	mg/L	1	30-Sep-2025 18:38
Aromatics >C8 - C10		U	0.000600	0.0200	mg/L	1	30-Sep-2025 18:38
Surr: 2,5-Dibromotoluene (Aliphatic)	*95.5*			*70-130*	*%REC*	*1*	*30-Sep-2025 18:38*
Surr: 2,5-Dibromotoluene (Aromatic)	*88.8*			*70-130*	*%REC*	*1*	*30-Sep-2025 18:38*
MASSACHUSETTS EPH R2.1, DEC 2019		**Method:MA EPH**			Prep:SW3510 / 01-Oct-2025		Analyst: SAM
Aliphatics >C10 - C12		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:40
Aliphatics >C12 - C16		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:40
Aliphatics >C16 - C35		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:40
Aromatics >C10 - C12		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:40
Aromatics >C12 - C16		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:40
Aromatics >C16 - C21		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:40
Aromatics >C21 - C35		U	0.0250	0.100	mg/L	1	02-Oct-2025 00:40
Surr: 1-Chlorooctadecane	*93.2*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:40*
Surr: 2-Bromonaphthalene	*88.8*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:40*
Surr: 2-Fluorobiphenyl	*86.6*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:40*
Surr: o-Terphenyl	*108*			*40-140*	*%REC*	*1*	*02-Oct-2025 00:40*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: FB-092525
Collection Date: 25-Sep-2025 14:30

ANALYTICAL REPORT
WorkOrder:HS25091276
Lab ID:HS25091276-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020A**			Prep:SW3010A / 02-Oct-2025		Analyst: JC
Arsenic	U		0.000510	0.00200	mg/L	1	03-Oct-2025 11:24
Barium	U		0.000750	0.00500	mg/L	1	03-Oct-2025 11:24
Calcium	U		0.120	0.500	mg/L	1	03-Oct-2025 11:24
Chromium	U		0.00173	0.00500	mg/L	1	03-Oct-2025 11:24
Iron	U		0.0600	0.200	mg/L	1	03-Oct-2025 11:24
Lead	U		0.000470	0.00200	mg/L	1	03-Oct-2025 11:24
Magnesium	U		0.0408	0.200	mg/L	1	03-Oct-2025 11:24
Manganese	U		0.00190	0.00500	mg/L	1	03-Oct-2025 11:24
Nickel	U		0.00130	0.00500	mg/L	1	03-Oct-2025 11:24
Potassium	U		0.0869	0.500	mg/L	1	03-Oct-2025 11:24
Sodium	U		0.130	0.500	mg/L	1	03-Oct-2025 11:24
Strontium	U		0.000300	0.00500	mg/L	1	03-Oct-2025 11:24
Vanadium	U		0.000600	0.00500	mg/L	1	03-Oct-2025 11:24
Zinc	**0.00464**	J	**0.00300**	**0.0100**	**mg/L**	1	03-Oct-2025 11:24
MERCURY BY SW7470A		**Method:SW7470A**			Prep:SW7470A / 02-Oct-2025		Analyst: DH
Mercury	U		0.0000300	0.000200	mg/L	1	02-Oct-2025 12:31
HYDROGEN SULFIDE BY E376.1		**Method:E376.1**					Analyst: CD
Hydrogen Sulfide	**0.722**	J	**0.500**	**1.00**	**mg/L**	1	30-Sep-2025 10:00
TOTAL DISSOLVED SOLIDS BY SM2540C		**Method:M2540C**					Analyst: HB
Total Dissolved Solids (Residue, Filterable)	U		3.00	10.0	mg/L	1	30-Sep-2025 11:00
ALKALINITY BY SM2320B		**Method:SM2320B**					Analyst: OZ
Alkalinity, Bicarbonate (As CaCO3)	U		1.20	5.00	mg/L	1	29-Sep-2025 19:33
Alkalinity, Carbonate (As CaCO3)	U		1.20	5.00	mg/L	1	29-Sep-2025 19:33
SULFIDE BY SM4500 S2-F		**Method:SM4500 S2-F**					Analyst: CD
Sulfide	U		0.920	5.00	mg/L	1	30-Sep-2025 10:00
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: OZ
pH	**5.24**	H	**0.100**	**1.00**	**pH Units**	1	29-Sep-2025 19:33
Temp Deg C @pH	**21.8**	H	**0**	**0**	**°C**	1	29-Sep-2025 19:33
ANIONS BY SW9056A		**Method:SW9056**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	02-Oct-2025 10:43
Chloride	U		0.200	0.500	mg/L	1	02-Oct-2025 10:43
Sulfate	U		0.200	0.500	mg/L	1	02-Oct-2025 10:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
Sample ID: CG-081225-323
Collection Date: 25-Sep-2025 00:00

ANALYTICAL REPORT
WorkOrder:HS25091276
Lab ID:HS25091276-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: DP
Benzene	U		0.00028	0.0010	mg/L	1	29-Sep-2025 17:16
Ethylbenzene	U		0.00033	0.0020	mg/L	1	29-Sep-2025 17:16
m,p-Xylene	U		0.00061	0.0040	mg/L	1	29-Sep-2025 17:16
o-Xylene	U		0.00031	0.0020	mg/L	1	29-Sep-2025 17:16
Toluene	**0.00057**	J	**0.00033**	**0.0020**	**mg/L**	1	29-Sep-2025 17:16
Xylenes, Total	U		0.00092	0.0060	mg/L	1	29-Sep-2025 17:16
Surr: 1,2-Dichloroethane-d4	*97.4*			*70-126*	*%REC*	*1*	*29-Sep-2025 17:16*
Surr: 4-Bromofluorobenzene	*96.2*			*77-113*	*%REC*	*1*	*29-Sep-2025 17:16*
Surr: Dibromofluoromethane	*96.9*			*77-123*	*%REC*	*1*	*29-Sep-2025 17:16*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*1*	*29-Sep-2025 17:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

Batch ID: 233630 **Start Date:** 01 Oct 2025 08:25 **End Date:** 01 Oct 2025 08:25
Method: MA EPH EXTRACTION-FRACTIONATION **Prep Code:** MA EPH_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25091276-01	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2
HS25091276-02	1	1000 (mL)	2 (mL)	0.002	1-liter amber glass, HCl to pH <2

Batch ID: 233703 **Start Date:** 02 Oct 2025 07:00 **End Date:** 02 Oct 2025 07:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25091276-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25091276-02		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 233730 **Start Date:** 02 Oct 2025 12:00 **End Date:** 02 Oct 2025 12:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS25091276-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS25091276-02		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 233630 (0)	**Test Name :** MASSACHUSETTS EPH R2.1, DEC 2019				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10		01 Oct 2025 08:25	02 Oct 2025 00:11	1
HS25091276-01	MW-3-200	25 Sep 2025 14:10		01 Oct 2025 08:25	02 Oct 2025 00:11	1
HS25091276-02	FB-092525	25 Sep 2025 14:30		01 Oct 2025 08:25	02 Oct 2025 00:40	1
HS25091276-02	FB-092525	25 Sep 2025 14:30		01 Oct 2025 08:25	02 Oct 2025 00:40	1
Batch ID: 233703 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10		02 Oct 2025 07:00	02 Oct 2025 12:24	1
HS25091276-02	FB-092525	25 Sep 2025 14:30		02 Oct 2025 07:00	02 Oct 2025 12:31	1
Batch ID: 233730 (0)	**Test Name :** ICP-MS METALS BY SW6020A				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10		02 Oct 2025 12:00	03 Oct 2025 11:22	1
HS25091276-02	FB-092525	25 Sep 2025 14:30		02 Oct 2025 12:00	03 Oct 2025 11:24	1
Batch ID: R522830 (0)	**Test Name :** ALKALINITY BY SM2320B				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			29 Sep 2025 19:23	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			29 Sep 2025 19:33	1
Batch ID: R522831 (0)	**Test Name :** PH BY SM4500H+ B				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			29 Sep 2025 19:23	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			29 Sep 2025 19:33	1
Batch ID: R522865 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			29 Sep 2025 20:13	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			29 Sep 2025 16:54	1
HS25091276-03	CG-081225-323	25 Sep 2025 00:00			29 Sep 2025 17:16	1
Batch ID: R522867 (0)	**Test Name :** SULFIDE BY SM4500 S2-F				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			30 Sep 2025 10:00	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			30 Sep 2025 10:00	1
Batch ID: R522869 (0)	**Test Name :** HYDROGEN SULFIDE BY E376.1				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			30 Sep 2025 10:00	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			30 Sep 2025 10:00	1
Batch ID: R522935 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			30 Sep 2025 11:00	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			30 Sep 2025 11:00	1
Batch ID: R522979 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			30 Sep 2025 17:59	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			30 Sep 2025 18:38	1
Batch ID: R522998 (0)	**Test Name :** MASSACHUSETTS VPH, FEB 2018, REV 2.1				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			30 Sep 2025 17:59	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			30 Sep 2025 18:38	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R523193 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS25091276-01	MW-3-200	25 Sep 2025 14:10			02 Oct 2025 10:37	1
HS25091276-02	FB-092525	25 Sep 2025 14:30			02 Oct 2025 10:43	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: 233630 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

MBLK Sample ID: **MBLK-233630** Units: **mg/L** Analysis Date: **01-Oct-2025 22:45**
Client ID: Run ID: **FID23_523130** SeqNo: **9064110** PrepDate: **01-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	U	0.100								
Aliphatics >C12 - C16	U	0.100								
Aliphatics >C16 - C35	U	0.100								
Surr: 1-Chlorooctadecane	*0.02666*	*0*	*0.04*	*0*	*66.6*	*40 - 140*				

MBLK Sample ID: **MBLK-233630** Units: **mg/L** Analysis Date: **01-Oct-2025 22:45**
Client ID: Run ID: **FID-22_523131** SeqNo: **9064074** PrepDate: **01-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	U	0.100								
Aromatics >C12 - C16	U	0.100								
Aromatics >C16 - C21	U	0.100								
Aromatics >C21 - C35	U	0.100								
Surr: 2-Bromonaphthalene	*0.03837*	*0*	*0.04*	*0*	*95.9*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03812*	*0*	*0.04*	*0*	*95.3*	*40 - 140*				
Surr: o-Terphenyl	*0.03589*	*0*	*0.04*	*0*	*89.7*	*40 - 140*				

LCS Sample ID: **LCS-233630** Units: **mg/L** Analysis Date: **01-Oct-2025 23:13**
Client ID: Run ID: **FID23_523130** SeqNo: **9064111** PrepDate: **01-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.04128	0.100	0.05	0	82.6	40 - 140				J
Aliphatics >C12 - C16	0.08653	0.100	0.1	0	86.5	40 - 140				J
Aliphatics >C16 - C35	0.3674	0.100	0.4	0	91.8	40 - 140				
Surr: 1-Chlorooctadecane	*0.02904*	*0*	*0.04*	*0*	*72.6*	*40 - 140*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: 233630 (0) **Instrument: FID23** **Method: MASSACHUSETTS EPH R2.1, DEC 2019**

LCS Sample ID: **LCS-233630** Units: **mg/L** Analysis Date: **01-Oct-2025 23:13**
Client ID: Run ID: **FID-22_523131** SeqNo: **9064075** PrepDate: **01-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.04232	0.100	0.05	0	84.6	40 - 140				J
Aromatics >C12 - C16	0.1589	0.100	0.2	0	79.5	40 - 140				
Aromatics >C16 - C21	0.1342	0.100	0.15	0	89.5	40 - 140				
Aromatics >C21 - C35	0.4147	0.100	0.45	0	92.2	40 - 140				
Surr: 2-Bromonaphthalene	*0.03833*	*0*	*0.04*	*0*	*95.8*	*40 - 140*				
Surr: 2-Fluorobiphenyl	*0.03703*	*0*	*0.04*	*0*	*92.6*	*40 - 140*				
Surr: o-Terphenyl	*0.0332*	*0*	*0.04*	*0*	*83.0*	*40 - 140*				

LCSD Sample ID: **LCSD-233630** Units: **mg/L** Analysis Date: **01-Oct-2025 23:42**
Client ID: Run ID: **FID23_523130** SeqNo: **9064112** PrepDate: **01-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C10 - C12	0.05212	0.100	0.05	0	104	40 - 140	0.04128	0	50	J
Aliphatics >C12 - C16	0.1095	0.100	0.1	0	109	40 - 140	0.08653	23.4	50	
Aliphatics >C16 - C35	0.4317	0.100	0.4	0	108	40 - 140	0.3674	16.1	50	
Surr: 1-Chlorooctadecane	*0.02771*	*0*	*0.04*	*0*	*69.3*	*40 - 140*	*0.02904*	*4.7*	*50*	

LCSD Sample ID: **LCSD-233630** Units: **mg/L** Analysis Date: **01-Oct-2025 23:42**
Client ID: Run ID: **FID-22_523131** SeqNo: **9064076** PrepDate: **01-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C10 - C12	0.05137	0.100	0.05	0	103	40 - 140	0.04232	0	50	J
Aromatics >C12 - C16	0.187	0.100	0.2	0	93.5	40 - 140	0.1589	16.3	50	
Aromatics >C16 - C21	0.1549	0.100	0.15	0	103	40 - 140	0.1342	14.3	50	
Aromatics >C21 - C35	0.4657	0.100	0.45	0	103	40 - 140	0.4147	11.6	50	
Surr: 2-Bromonaphthalene	*0.03561*	*0*	*0.04*	*0*	*89.0*	*40 - 140*	*0.03833*	*7.38*	*50*	
Surr: 2-Fluorobiphenyl	*0.03454*	*0*	*0.04*	*0*	*86.3*	*40 - 140*	*0.03703*	*6.98*	*50*	
Surr: o-Terphenyl	*0.03295*	*0*	*0.04*	*0*	*82.4*	*40 - 140*	*0.0332*	*0.739*	*50*	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522979 (0) **Instrument: FID-14** **Method: MASSACHUSETTS VPH, FEB 2018, REV 2.1**

MBLK Sample ID: **MBLK-250929** Units: **mg/L** Analysis Date: **30-Sep-2025 08:57**
Client ID: Run ID: **FID-14_522979** SeqNo: **9060746** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	U	0.00500								
Aliphatics >C8 - C10	U	0.00500								
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2229*	*0.0100*	*0.25*	*0*	*89.1*	*70 - 130*				

LCS Sample ID: **LCS-250929** Units: **mg/L** Analysis Date: **30-Sep-2025 07:40**
Client ID: Run ID: **FID-14_522979** SeqNo: **9060744** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.0269	0.00500	0.025	0	108	70 - 130				
Aliphatics >C8 - C10	0.0185	0.00500	0.025	0	74.0	70 - 130				
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2267*	*0.0100*	*0.25*	*0*	*90.7*	*70 - 130*				

LCSD Sample ID: **LCSD-250929** Units: **mg/L** Analysis Date: **30-Sep-2025 08:18**
Client ID: Run ID: **FID-14_522979** SeqNo: **9060745** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics >C6 - C8	0.02076	0.00500	0.025	0	83.0	70 - 130	0.0269	25.8	25	R
Aliphatics >C8 - C10	0.0212	0.00500	0.025	0	84.8	70 - 130	0.0185	13.6	25	
Surr: 2,5-Dibromotoluene (Aliphatic)	*0.2734*	*0.0100*	*0.25*	*0*	*109*	*70 - 130*	*0.2267*	*18.7*	*25*	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522998 (0) **Instrument:** FID-15 **Method:** MASSACHUSETTS VPH, FEB 2018, REV 2.1

MBLK Sample ID: **MBLK-250929** Units: **mg/L** Analysis Date: **30-Sep-2025 08:57**
Client ID: Run ID: **FID-15_522998** SeqNo: **9061478** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	U	0.0200								
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2081*	*0.0100*	*0.25*	*0*	*83.2*	*70 - 130*				

LCS Sample ID: **LCS-250929** Units: **mg/L** Analysis Date: **30-Sep-2025 07:40**
Client ID: Run ID: **FID-15_522998** SeqNo: **9061476** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.07001	0.0200	0.1	0	70.0	70 - 130				
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2122*	*0.0100*	*0.25*	*0*	*84.9*	*70 - 130*				

LCSD Sample ID: **LCSD-250929** Units: **mg/L** Analysis Date: **30-Sep-2025 08:18**
Client ID: Run ID: **FID-15_522998** SeqNo: **9061477** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >C8 - C10	0.0911	0.0200	0.1	0	91.1	70 - 130	0.07001	26.2	25	R
Surr: 2,5-Dibromotoluene (Aromatic)	*0.2543*	*0.0100*	*0.25*	*0*	*102*	*70 - 130*	*0.2122*	*18*	*25*	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: 233703 (0) **Instrument: HG05** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-233703** Units: **mg/L** Analysis Date: **02-Oct-2025 11:47**
Client ID: Run ID: **HG05_523108** SeqNo: **9063577** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-233703** Units: **mg/L** Analysis Date: **02-Oct-2025 11:49**
Client ID: Run ID: **HG05_523108** SeqNo: **9063578** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00512	0.000200	0.005	0	102	80 - 120				

MS Sample ID: **HS25091241-04MS** Units: **mg/L** Analysis Date: **02-Oct-2025 12:01**
Client ID: Run ID: **HG05_523108** SeqNo: **9063585** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00477	0.000200	0.005	0.000002	95.4	75 - 125				

MSD Sample ID: **HS25091241-04MSD** Units: **mg/L** Analysis Date: **02-Oct-2025 12:02**
Client ID: Run ID: **HG05_523108** SeqNo: **9063586** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00463	0.000200	0.005	0.000002	92.6	75 - 125	0.00477	2.98	20	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: 233730 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MBLK Sample ID: **MBLK-233730** Units: **mg/L** Analysis Date: **03-Oct-2025 10:57**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065332** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.00200								
Barium	U	0.00500								
Calcium	U	0.500								
Chromium	U	0.00500								
Iron	U	0.200								
Lead	U	0.00200								
Magnesium	U	0.200								
Manganese	U	0.00500								
Nickel	U	0.00500								
Potassium	U	0.500								
Sodium	U	0.500								
Strontium	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.0100								

LCS Sample ID: **LCS-233730** Units: **mg/L** Analysis Date: **03-Oct-2025 10:59**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065333** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05038	0.00200	0.05	0	101	80 - 120				
Barium	0.04832	0.00500	0.05	0	96.6	80 - 120				
Calcium	5.46	0.500	5	0	109	80 - 120				
Chromium	0.05136	0.00500	0.05	0	103	80 - 120				
Iron	5.146	0.200	5	0	103	80 - 120				
Lead	0.04947	0.00200	0.05	0	98.9	80 - 120				
Magnesium	5.227	0.200	5	0	105	80 - 120				
Manganese	0.05331	0.00500	0.05	0	107	80 - 120				
Nickel	0.05092	0.00500	0.05	0	102	80 - 120				
Potassium	5.142	0.500	5	0	103	80 - 120				
Sodium	5.214	0.500	5	0	104	80 - 120				
Strontium	0.1018	0.00500	0.1	0	102	80 - 120				
Vanadium	0.05114	0.00500	0.05	0	102	80 - 120				
Zinc	0.05361	0.0100	0.05	0	107	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: 233730 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

MS Sample ID: **HS25091331-01MS** Units: **mg/L** Analysis Date: **03-Oct-2025 11:07**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065337** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05289	0.00200	0.05	0.000861	104	80 - 120				
Barium	0.06527	0.00500	0.05	0.01579	99.0	80 - 120				
Calcium	491.4	0.500	5	488.3	61.6	80 - 120				SEO
Chromium	0.05289	0.00500	0.05	0.002592	101	80 - 120				
Iron	5.231	0.200	5	0.1302	102	80 - 120				
Lead	0.05075	0.00200	0.05	0.000269	101	80 - 120				
Magnesium	126	0.200	5	122.1	78.7	80 - 120				SO
Manganese	3.617	0.00500	0.05	3.616	0.750	80 - 120				SEO
Nickel	0.06224	0.00500	0.05	0.01523	94.0	80 - 120				
Potassium	9.496	0.500	5	4.665	96.6	80 - 120				
Sodium	73.21	0.500	5	68.34	97.4	80 - 120				O
Strontium	1.397	0.00500	0.1	1.286	111	80 - 120				O
Vanadium	0.05139	0.00500	0.05	0.000056	103	80 - 120				
Zinc	0.08165	0.0100	0.05	0.03426	94.8	80 - 120				

MSD Sample ID: **HS25091331-01MSD** Units: **mg/L** Analysis Date: **03-Oct-2025 11:09**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065338** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05316	0.00200	0.05	0.000861	105	80 - 120	0.05289	0.511	20	
Barium	0.06589	0.00500	0.05	0.01579	100	80 - 120	0.06527	0.948	20	
Calcium	487	0.500	5	488.3	-26.0	80 - 120	491.4	0.895	20	SEO
Chromium	0.05275	0.00500	0.05	0.002592	100	80 - 120	0.05289	0.276	20	
Iron	5.162	0.200	5	0.1302	101	80 - 120	5.231	1.33	20	
Lead	0.05084	0.00200	0.05	0.000269	101	80 - 120	0.05075	0.181	20	
Magnesium	126.1	0.200	5	122.1	80.1	80 - 120	126	0.0555	20	O
Manganese	3.617	0.00500	0.05	3.616	1.21	80 - 120	3.617	0.00633	20	SEO
Nickel	0.06319	0.00500	0.05	0.01523	95.9	80 - 120	0.06224	1.51	20	
Potassium	9.459	0.500	5	4.665	95.9	80 - 120	9.496	0.393	20	
Sodium	73.61	0.500	5	68.34	105	80 - 120	73.21	0.542	20	O
Strontium	1.41	0.00500	0.1	1.286	125	80 - 120	1.397	0.942	20	SO
Vanadium	0.0508	0.00500	0.05	0.000056	101	80 - 120	0.05139	1.15	20	
Zinc	0.0823	0.0100	0.05	0.03426	96.1	80 - 120	0.08165	0.792	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: 233730 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

PDS Sample ID: **HS25091331-01PDS** Units: **mg/L** Analysis Date: **03-Oct-2025 11:11**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065339** PrepDate: **02-Oct-2025** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1133	0.00200	0.1	0.000861	112	75 - 125				
Barium	0.1221	0.00500	0.1	0.01579	106	75 - 125				
Chromium	0.1097	0.00500	0.1	0.002592	107	75 - 125				
Iron	10.63	0.200	10	0.1302	105	75 - 125				
Lead	0.1121	0.00200	0.1	0.000269	112	75 - 125				
Magnesium	144.7	0.200	10	122.1	227	75 - 125				SO
Nickel	0.1178	0.00500	0.1	0.01523	103	75 - 125				
Potassium	15.41	0.500	10	4.665	107	75 - 125				
Sodium	86.08	0.500	10	68.34	177	75 - 125				SO
Strontium	1.61	0.00500	0.1	1.286	324	75 - 125				SO
Vanadium	0.1106	0.00500	0.1	0.000056	111	75 - 125				
Zinc	0.1463	0.0100	0.1	0.03426	112	75 - 125				

PDS Sample ID: **HS25091331-01PDS** Units: **mg/L** Analysis Date: **03-Oct-2025 14:18**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065761** PrepDate: **02-Oct-2025** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	646.3	10.0	200	480.3	83.0	75 - 125				
Manganese	5.586	0.100	2	3.682	95.2	75 - 125				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: 233730 (0) **Instrument: ICPMS06** **Method: ICP-MS METALS BY SW6020A**

SD Sample ID: **HS25091331-01SD** Units: **mg/L** Analysis Date: **03-Oct-2025 11:01**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065334** PrepDate: **02-Oct-2025** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	U	0.0100					0.000861	0	10	
Barium	0.01632	0.0250					0.01579	0	10	J
Chromium	U	0.0250					0.002592	0	10	
Iron	U	1.00					0.1302	0	10	
Lead	U	0.0100					0.000269	0	10	
Magnesium	126.2	1.00					122.1	3.39	10	
Nickel	0.01533	0.0250					0.01523	0	10	J
Potassium	4.903	2.50					4.665	5.09	10	
Sodium	69.8	2.50					68.34	2.14	10	
Strontium	1.291	0.0250					1.286	0.411	10	
Vanadium	U	0.0250					0.000056	0	10	
Zinc	0.03864	0.0500					0.03426	0	10	J

SD Sample ID: **HS25091331-01SD** Units: **mg/L** Analysis Date: **03-Oct-2025 14:16**
Client ID: Run ID: **ICPMS06_523192** SeqNo: **9065760** PrepDate: **02-Oct-2025** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Calcium	499.7	50.0					480.3	4.05	10	
Manganese	3.779	0.500					3.682	2.63	10	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522865 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **29-Sep-2025 16:10**
Client ID: Run ID: **VOA11_522865** SeqNo: **9058381** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.0010								
Ethylbenzene	U	0.0020								
m,p-Xylene	U	0.0040								
o-Xylene	U	0.0020								
Toluene	U	0.0020								
Xylenes, Total	U	0.0060								
Surr: 1,2-Dichloroethane-d4	*0.046*	*0.0010*	*0.05*	*0*	*92.1*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.055*	*0.0010*	*0.05*	*0*	*109*	*77 - 113*				
Surr: Dibromofluoromethane	*0.047*	*0.0010*	*0.05*	*0*	*93.1*	*73 - 126*				
Surr: Toluene-d8	*0.051*	*0.0010*	*0.05*	*0*	*102*	*81 - 120*				

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **29-Sep-2025 15:02**
Client ID: Run ID: **VOA11_522865** SeqNo: **9058379** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	101	74 - 120				
Ethylbenzene	0.024	0.0020	0.02	0	118	77 - 117				S
m,p-Xylene	0.047	0.0040	0.04	0	118	77 - 122				
o-Xylene	0.024	0.0020	0.02	0	118	75 - 119				
Toluene	0.022	0.0020	0.02	0	108	77 - 118				
Xylenes, Total	0.071	0.0060	0.06	0	118	75 - 122				
Surr: 1,2-Dichloroethane-d4	*0.043*	*0.0010*	*0.05*	*0*	*86.6*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*0.050*	*0.0010*	*0.05*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*0.047*	*0.0010*	*0.05*	*0*	*93.0*	*73 - 126*				
Surr: Toluene-d8	*0.052*	*0.0010*	*0.05*	*0*	*104*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522865 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

LCSD Sample ID: **LCSD** Units: **mg/L** Analysis Date: **29-Sep-2025 15:24**
Client ID: Run ID: **VOA11_522865** SeqNo: **9058380** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	0.020	0.0010	0.02	0	97.9	74 - 120	0.02024	3.27	20	
Ethylbenzene	0.022	0.0020	0.02	0	112	77 - 117	0.02355	5.41	20	
m,p-Xylene	0.045	0.0040	0.04	0	113	77 - 122	0.04733	4.84	20	
o-Xylene	0.023	0.0020	0.02	0	113	75 - 119	0.02354	3.73	20	
Toluene	0.021	0.0020	0.02	0	103	77 - 118	0.02160	4.82	20	
Xylenes, Total	0.068	0.0060	0.06	0	113	75 - 122	0.07087	4.47	20	
Surr: 1,2-Dichloroethane-d4	*0.043*	*0.0010*	*0.05*	*0*	*85.5*	*70 - 123*	*0.04332*	*1.28*	*20*	
Surr: 4-Bromofluorobenzene	*0.051*	*0.0010*	*0.05*	*0*	*102*	*77 - 113*	*0.05027*	*1.92*	*20*	
Surr: Dibromofluoromethane	*0.045*	*0.0010*	*0.05*	*0*	*90.9*	*73 - 126*	*0.04651*	*2.31*	*20*	
Surr: Toluene-d8	*0.052*	*0.0010*	*0.05*	*0*	*104*	*81 - 120*	*0.05206*	*0.46*	*20*	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02 HS25091276-03

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522830 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM2320B**

MBLK Sample ID: **MBLK-09.29.2025** Units: **mg/L** Analysis Date: **29-Sep-2025 19:05**
Client ID: Run ID: **Skalar 03_522830** SeqNo: **9060646** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-09.29.2025** Units: **mg/L** Analysis Date: **29-Sep-2025 19:11**
Client ID: Run ID: **Skalar 03_522830** SeqNo: **9060647** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	973.2	5.00	1000	0	97.3	85 - 115				

LCSD Sample ID: **LCSD-09.29.2025** Units: **mg/L** Analysis Date: **29-Sep-2025 19:17**
Client ID: Run ID: **Skalar 03_522830** SeqNo: **9060648** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	967.8	5.00	1000	0	96.8	85 - 115	973.2	0.556	20	

DUP Sample ID: **HS25091276-01DUP** Units: **mg/L** Analysis Date: **29-Sep-2025 19:28**
Client ID: **MW-3-200** Run ID: **Skalar 03_522830** SeqNo: **9060650** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	299.2	5.00					302.4	1.06	20	
Alkalinity, Carbonate (As CaCO3)	11.8	5.00					12	1.68	20	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: **R522831 (0)** **Instrument:** **Skalar 03** **Method:** **PH BY SM4500H+ B**

DUP Sample ID: **HS25091276-01DUP** Units: **pH Units** Analysis Date: **29-Sep-2025 19:28**
Client ID: **MW-3-200** Run ID: **Skalar 03_522831** SeqNo: **9060655** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.44	1.00					8.43	0.119	10	
Temp Deg C @pH	21.7	0					21.7	0	10	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522867 (0) **Instrument: WetChem_HS** **Method: SULFIDE BY SM4500 S2-F**

MBLK Sample ID: **MBLK-R522867** Units: **mg/L** Analysis Date: **30-Sep-2025 10:00**
Client ID: Run ID: **WetChem_HS_522867** SeqNo: **9058452** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	5.00								

LCS Sample ID: **LCS-R522867** Units: **mg/L** Analysis Date: **30-Sep-2025 10:00**
Client ID: Run ID: **WetChem_HS_522867** SeqNo: **9058451** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.68	5.00	25	0	90.7	85 - 115				

LCSD Sample ID: **LCSD-R522867** Units: **mg/L** Analysis Date: **30-Sep-2025 10:00**
Client ID: Run ID: **WetChem_HS_522867** SeqNo: **9058450** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	22.48	5.00	25	0	89.9	85 - 115	22.68	0.886	20	

MS Sample ID: **HS25091276-01MS** Units: **mg/L** Analysis Date: **30-Sep-2025 10:00**
Client ID: **MW-3-200** Run ID: **WetChem_HS_522867** SeqNo: **9058453** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	25.48	5.00	25	1.68	95.2	80 - 120				

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522869 (0) **Instrument: WetChem_HS** **Method: HYDROGEN SULFIDE BY E376.1**

MBLK Sample ID: **MBLK-R522869** Units: **mg/L** Analysis Date: **30-Sep-2025 10:00**
Client ID: Run ID: **WetChem_HS_522869** SeqNo: **9058500** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	U	1.00								

LCS Sample ID: **LCS-R522869** Units: **mg/L** Analysis Date: **30-Sep-2025 10:00**
Client ID: Run ID: **WetChem_HS_522869** SeqNo: **9058499** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	24.1	1.00	26.56	0	90.7	80 - 120				

LCSD Sample ID: **LCSD-R522869** Units: **mg/L** Analysis Date: **30-Sep-2025 10:00**
Client ID: Run ID: **WetChem_HS_522869** SeqNo: **9058498** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hydrogen Sulfide	23.88	1.00	26.56	0	89.9	80 - 120	24.1	0.886	20	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R522935 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C**

MBLK Sample ID: **WMBLK-09302025** Units: **mg/L** Analysis Date: **30-Sep-2025 11:00**
Client ID: Run ID: **Balance1_522935** SeqNo: **9059876** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-09302025** Units: **mg/L** Analysis Date: **30-Sep-2025 11:00**
Client ID: Run ID: **Balance1_522935** SeqNo: **9059875** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	984	10.0	1000	0	98.4	85 - 115				

DUP Sample ID: **HS25091322-03DUP** Units: **mg/L** Analysis Date: **30-Sep-2025 11:00**
Client ID: Run ID: **Balance1_522935** SeqNo: **9059867** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	5300	10.0					5240	1.14	20	

DUP Sample ID: **HS25091275-03DUP** Units: **mg/L** Analysis Date: **30-Sep-2025 11:00**
Client ID: Run ID: **Balance1_522935** SeqNo: **9059858** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	27200	10.0					28000	2.9	20	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: HS25091276

QC BATCH REPORT

Batch ID: R523193 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **02-Oct-2025 10:08**
Client ID: Run ID: **ICS-Integrion_523193** SeqNo: **9065373** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **02-Oct-2025 13:27**
Client ID: Run ID: **ICS-Integrion_523193** SeqNo: **9065392** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.913	0.100	4	0	97.8	80 - 120				
Chloride	19.83	0.500	20	0	99.1	80 - 120				
Sulfate	19.71	0.500	20	0	98.6	80 - 120				

MS Sample ID: **HS25091276-01MS** Units: **mg/L** Analysis Date: **02-Oct-2025 12:16**
Client ID: **MW-3-200** Run ID: **ICS-Integrion_523193** SeqNo: **9065384** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.132	0.100	2	0	107	80 - 120				
Chloride	32.28	0.500	10	22.46	98.3	80 - 120				
Sulfate	8.247	0.500	10	0	82.5	80 - 120				

MSD Sample ID: **HS25091276-01MSD** Units: **mg/L** Analysis Date: **02-Oct-2025 12:22**
Client ID: **MW-3-200** Run ID: **ICS-Integrion_523193** SeqNo: **9065385** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.101	0.100	2	0	105	80 - 120	2.132	1.47	20	
Chloride	32.16	0.500	10	22.46	97.0	80 - 120	32.28	0.385	20	
Sulfate	8.202	0.500	10	0	82.0	80 - 120	8.247	0.547	20	

The following samples were analyzed in this batch: HS25091276-01 HS25091276-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Environmental Resources Mgmt.
Project: Sulphur Dome
WorkOrder: **HS25091276**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Dept of Defense	L24-240	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Maine	2024017	23-Jun-2026
Michigan	9971-2025	30-Apr-2026
Minnesota	2856348	31-Dec-2025
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624 - 2024	31-Dec-2025
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	TX-C25-00104	30-Apr-2026

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS25091276 **Date/Time Received:** **26-Sep-2025 17:00**

Client Name: ERMSW-HOU **Received by:** **Edgar Zheku**

Completed By:	/S/ Kaycee Rogers	26-Sep-2025 19:52	**Reviewed by:**	/S/ Beverly Mustafa	29-Sep-2025 08:37
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:349993
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.6UC/3.6C	IR 34
Cooler(s)/Kit(s):	53591	
Date/Time sample(s) sent to storage:	09/26/2025 1952	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody For

COC ID: 349993

HS25091276

Environmental Resources Mgmt.
Sulphur Dome

ALS Project Manager:

Customer Information		Project Information	
Purchase Order	0794035	Project Name	Sulphur Dome
Work Order		Project Number	
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.
Send Report To	Scott Himes	Invoice Attn	Accounts Payable
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024
Phone	(281) 600-1000	Phone	(281) 600-1000
Fax	(281) 600-1001	Fax	(281) 600-1001
e-Mail Address	scott.himes@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com

A	8260_LL_W (Low Level VOC (8260) BTEX)
B	ICP:As,Ba,Ca,Cr,Fe,Pb,Mg,Mn,K,Na,Sr,Zn,Ni,V
C	HG_W (Mercury)
D	MA EPH_W_La (MA EPH)
E	MA VPH_LA_W
F	9056_anions_W (Cl,SO4,Br) / pH
G	ALK_W 2320B (carb. bicarb)
H	H2S_W (H2S)
I	SULFD_4500S F (Sulfide)
J	TDS_W 2540C (TDS)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-3-200	9/25/25	1410	W	1,2,7	11	X	X	X	X	X	X	X	X	X	X	
2	FB-092525	↓	1430	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	
3																	
4	CG-081225-323	—	—	—	—	2	X										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Scott Himes

Shipment Method: Drop off

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

	Date:	Time:		
Relinquished by:	9/25/25	1530	Received by:	
Relinquished by:	9/26/25	1200	Received by (Laboratory):	09/26/25 17:00
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: ERM Sulphur Dome

Cooler ID	Cooler Temp.
53591	3.6

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level II Std QC/Raw Data
[ ] Level IV SVM18/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

4.3.7 CF2 C

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental

RIGHT SOLUTIONS | RIGHT PARTNER

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978055 **Job #:** 63328

Sample Name: MW-1-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/21/2025 13:50 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.370					
Oxygen	2.74					
Nitrogen	16.87					
Carbon Dioxide	0.40					
Methane	79.59	-56.31	-197.2		87	58
Ethane	0.0311				0.037	0.046
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.32
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978056 **Job #:** 63328

Sample Name: MW-1-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/21/2025 16:15 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.06					
Oxygen	8.18					
Nitrogen	45.89					
Carbon Dioxide	0.39					
Methane	44.48	-63.08	-294.8		15	9.7
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.81
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978057 **Job #:** 63328

Sample Name: MW-1-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/22/2025 09:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.28					
Oxygen	6.21					
Nitrogen	59.50					
Carbon Dioxide	0.067					
Methane	32.94	-81.48	-290.2		11	7.1
Ethane	0.0021				0.00072	0.00091
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	0.0016					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978058 **Job #:** 63328

Sample Name: MW-2-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/22/2025 13:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.63					
Oxygen	7.84					
Nitrogen	73.08					
Carbon Dioxide	nd					
Methane	17.45	-80.25	-284.5		4.5	3.0
Ethane	0.0042				0.0012	0.0015
Ethylene	0.0007					
Propane	0.0010				0.0003	0.0005
Propylene	nd					
Iso-butane	0.0012					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.85
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978059 **Job #:** 63328

Sample Name: MW-2-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/22/2025 10:50 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.389					
Oxygen	5.33					
Nitrogen	15.38					
Carbon Dioxide	0.21					
Methane	78.63	-50.03	-188.7		40	26
Ethane	0.0589				0.032	0.040
Ethylene	nd					
Propane	0.0006				0.0003	0.0005
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978060 **Job #:** 63328

Sample Name: 019-582

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/22/2025 16:40 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.60					
Oxygen	8.70					
Nitrogen	78.28					
Carbon Dioxide	11.22					
Methane	0.203				0.055	0.037
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.85
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978061 **Job #:** 63328

Sample Name: LDNR-13

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/22/2025 15:40 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.52					
Oxygen	12.57					
Nitrogen	75.00					
Carbon Dioxide	5.60					
Methane	5.31	-61.17	-267		1.1	0.74
Ethane	0.0033				0.00075	0.00093
Ethylene	nd					
Propane	nd				<0.0001	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.85
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane hydrogen isotope data obtained online via GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978062 **Job #:** 63328

Sample Name: LDNR-14

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/22/2025 15:10 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.52					
Oxygen	22.80					
Nitrogen	72.38					
Carbon Dioxide	2.77					
Methane	0.524	-41.9			0.11	0.070
Ethane	0.0049				0.0011	0.0013
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.86
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978063 **Job #:** 63328

Sample Name: 019-995

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/22/2025 16:05 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.64					
Oxygen	8.18					
Nitrogen	80.89					
Carbon Dioxide	9.28					
Methane	0.0126				0.0034	0.0023
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.82
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978064 **Job #:** 63328

Sample Name: 019-1603

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/23/2025 08:10 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.52					
Oxygen	8.88					
Nitrogen	76.34					
Carbon Dioxide	12.55					
Methane	0.715	-56.2			0.20	0.14
Ethane	0.0036				0.0011	0.0014
Ethylene	nd					
Propane	nd				<0.0002	<0.0004
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.86
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978065 **Job #:** 63328

Sample Name: MW-3-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/23/2025 12:30 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.284					
Oxygen	4.45					
Nitrogen	11.15					
Carbon Dioxide	0.45					
Methane	83.62	-46.91	-190.9		38	25
Ethane	0.0481				0.023	0.029
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.71
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978066 **Job #:** 63328

Sample Name: MW-3-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/23/2025 10:30 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.903					
Oxygen	6.69					
Nitrogen	40.52					
Carbon Dioxide	nd					
Methane	51.35	-44.54	-152.7		20	13
Ethane	0.499				0.21	0.26
Ethylene	0.0018					
Propane	0.0165				0.0065	0.012
Propylene	nd					
Iso-butane	0.0120					
N-butane	0.0007					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0069					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.74
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978067 **Job #:** 63328

Sample Name: LDNR-25

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/23/2025 14:20 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	0.25					
Helium	na					
Hydrogen	nd					
Argon	1.56					
Oxygen	14.76					
Nitrogen	77.20					
Carbon Dioxide	4.40					
Methane	1.84	-45.4	-154		0.36	0.24
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0001	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.86
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane isotopes obtained online via GC-C-IRMS/GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978068 **Job #:** 63328

Sample Name: LDNR-08

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/23/2025 13:20 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.20					
Oxygen	43.26					
Nitrogen	55.41					
Carbon Dioxide	0.11					
Methane	0.0167				0.0036	0.0024
Ethane	nd				<0.0001	<0.0002
Ethylene	nd					
Propane	nd				<0.0001	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.84
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978069 **Job #:** 63328

Sample Name: LDNR-07

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/23/2025 13:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.39					
Oxygen	27.31					
Nitrogen	68.94					
Carbon Dioxide	1.02					
Methane	1.32	-49.3			0.28	0.19
Ethane	0.0111				0.0025	0.0032
Ethylene	nd					
Propane	0.0016				0.00035	0.00065
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.85
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978070 **Job #:** 63328

Sample Name: LDNR-12

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 07/23/2025 12:35 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.31					
Oxygen	38.33					
Nitrogen	60.08					
Carbon Dioxide	0.24					
Methane	0.0457				0.0084	0.0056
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0001	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.87
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand

www.isotechlabs.com

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Himes
Company: ERM
Address: 840 W Sam Houston Pkwy N #600
City/State Houston, TX 77024
Phone: 281-600-1000
Email: scott.himes@erm.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address:
City/State
Phone:
Email:

Project: Sulphur Dome
Location: Sulphur, LA

Purchase Order #: 0777906
Sampled By: TB

Select One: ☑ *Standard* ☐ *Priority* ☐ *Rush*

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: DG-A			Comments
1	MW-1-200	7/21/25	13:50	X			
1	MW-1-500	〃	16:15	X			
1	MW-1-700	7/22/25	9:00	X			
1	MW-2-700	〃	13:00	X			
1	MW-2-200	〃	10:50	X			
1	019-582	〃	16:40	X			

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	Brody Tuggle / SR Isotech	ERM	7/22/25	17:30
Received by			7/23/25	1030
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com
Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Himes
Company: ERM
Address: 840 W Sam Houston Pkwy N
City/State #1600 Houston, TX 77024
Phone: 281-600-1000
Email: scott.himes@erm.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address:
City/State
Phone:
Email:

Project: Sulphur Dome
Location: Sulphur, LA
Purchase Order #: 0777906
Sampled By: TB + MS

Select One: ☑ Standard ☐ Priority ☐ Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: DG-A			Comments
9	LDNR-13	7/22/25	15:40	X			
9	LDNR-14	↓	15:10	X			
9	019-995	↓	16:05	X			
9	019-1603	7/23/25	0810	X			
9	MW-3-200		1230	X			
9	MW-3-500		1030	X			
10	LDNR-25		1420	X			
9	LDNR-08		1320	X			
10	LDNR-07		1300	X			
9	LDNR-12	7/23/25	1235	X			

Chain-of-Custody Record

Signature	Company	Date	Time
Relinquished by: TYLER Brown	ERM	7/22/25	15:40
Received by: Brody Tuggle / SR Isotech		7/29/25	1030
Relinquished by			
Received by			
Relinquished by			
Received by			

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978146 **Job #:** 63330

Sample Name: LDNR-26

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 08:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0051				
Hydrogen	nd				
Argon	0.121				
Oxygen	0.79				
Nitrogen	6.73				
Carbon Dioxide	1.59				
Methane	89.81	-37.95	-154.0		
Ethane	0.780				
Ethylene	nd				
Propane	0.0631				
Propylene	nd				
Iso-butane	0.0802				
N-butane	0.0029				
Iso-pentane	0.0188				
N-pentane	0.0001				
Hexanes +	0.0062				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 930
Specific gravity, calculated: 0.609
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978147 **Job #:** 63330

Sample Name: MS-LDNR-26

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 08:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0058				
Hydrogen	nd				
Argon	0.129				
Oxygen	1.00				
Nitrogen	7.09				
Carbon Dioxide	1.50				
Methane	89.32				
Ethane	0.774				
Ethylene	nd				
Propane	0.0628				
Propylene	nd				
Iso-butane	0.0801				
N-butane	0.0029				
Iso-pentane	0.0189				
N-pentane	0.0001				
Hexanes +	0.0063				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 925
Specific gravity, calculated: 0.610
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978148 **Job #:** 63330

Sample Name: MSD-LDNR-26

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 08:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0055				
Hydrogen	nd				
Argon	0.132				
Oxygen	1.12				
Nitrogen	7.26				
Carbon Dioxide	1.48				
Methane	89.06				
Ethane	0.772				
Ethylene	nd				
Propane	0.0629				
Propylene	nd				
Iso-butane	0.0806				
N-butane	0.0029				
Iso-pentane	0.0193				
N-pentane	0.0001				
Hexanes +	0.0067				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 922
Specific gravity, calculated: 0.611
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978149 **Job #:** 63330

Sample Name: Gas-Dup-01

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 00:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0037				
Hydrogen	nd				
Argon	0.0451				
Oxygen	0.19				
Nitrogen	2.34				
Carbon Dioxide	2.47				
Methane	93.92	-34.30	-142.7		
Ethane	0.627				
Ethylene	0.0094				
Propane	0.181				
Propylene	nd				
Iso-butane	0.0673				
N-butane	0.0554				
Iso-pentane	0.0341				
N-pentane	0.0231				
Hexanes +	0.0424				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 976
Specific gravity, calculated: 0.598
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978150 **Job #:** 63330

Sample Name: LDNR-03

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 10:40 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0041				
Hydrogen	nd				
Argon	0.0389				
Oxygen	0.14				
Nitrogen	1.99				
Carbon Dioxide	2.55				
Methane	94.24	-34.28	-143.2		
Ethane	0.630				
Ethylene	0.0096				
Propane	0.182				
Propylene	nd				
Iso-butane	0.0674				
N-butane	0.0554				
Iso-pentane	0.0340				
N-pentane	0.0230				
Hexanes +	0.0394				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 980
Specific gravity, calculated: 0.596
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978151 **Job #:** 63330

Sample Name: LDNR-06

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 12:35 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0047				
Hydrogen	nd				
Argon	0.0646				
Oxygen	0.12				
Nitrogen	3.20				
Carbon Dioxide	1.75				
Methane	93.71	-34.77	-145.1		
Ethane	0.692				
Ethylene	0.0369				
Propane	0.218				
Propylene	nd				
Iso-butane	0.0837				
N-butane	0.0670				
Iso-pentane	0.0311				
N-pentane	0.0152				
Hexanes +	0.0158				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 976
Specific gravity, calculated: 0.594
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978152 **Job #:** 63330

Sample Name: Gas-Dup-02

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 00:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0045				
Hydrogen	nd				
Argon	0.0219				
Oxygen	0.10				
Nitrogen	1.25				
Carbon Dioxide	3.05				
Methane	94.11	-35.47	-146.5		
Ethane	0.878				
Ethylene	0.0842				
Propane	0.247				
Propylene	nd				
Iso-butane	0.0772				
N-butane	0.0690				
Iso-pentane	0.0364				
N-pentane	0.0263				
Hexanes +	0.0479				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 987
Specific gravity, calculated: 0.601
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978153 **Job #:** 63330

Sample Name: LDNR-24

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 13:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0045				
Hydrogen	nd				
Argon	0.0222				
Oxygen	0.11				
Nitrogen	1.28				
Carbon Dioxide	3.05				
Methane	94.08	-35.47	-146.3		
Ethane	0.878				
Ethylene	0.0842				
Propane	0.247				
Propylene	nd				
Iso-butane	0.0772				
N-butane	0.0690				
Iso-pentane	0.0364				
N-pentane	0.0262				
Hexanes +	0.0473				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 987
Specific gravity, calculated: 0.601
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978154 **Job #:** 63330

Sample Name: LDNR-04

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 14:15 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0042				
Hydrogen	nd				
Argon	0.0302				
Oxygen	0.15				
Nitrogen	1.71				
Carbon Dioxide	2.47				
Methane	93.87	-36.95	-152.4		
Ethane	1.26				
Ethylene	0.0244				
Propane	0.252				
Propylene	nd				
Iso-butane	0.0758				
N-butane	0.0673				
Iso-pentane	0.0325				
N-pentane	0.0205				
Hexanes +	0.0285				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 989
Specific gravity, calculated: 0.598
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978155 **Job #:** 63330

Sample Name: LDNR-17

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/22/2025 14:40 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0092				
Hydrogen	nd				
Argon	0.0604				
Oxygen	0.17				
Nitrogen	3.15				
Carbon Dioxide	2.61				
Methane	91.98	-39.01	-158.1		
Ethane	1.61				
Ethylene	nd				
Propane	0.219				
Propylene	nd				
Iso-butane	0.0710				
N-butane	0.0524				
Iso-pentane	0.0271				
N-pentane	0.0142				
Hexanes +	0.0231				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 974
Specific gravity, calculated: 0.607
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978156 **Job #:** 63330

Sample Name: LDNR-05

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/23/2025 09:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0051				
Hydrogen	nd				
Argon	0.0544				
Oxygen	0.13				
Nitrogen	2.69				
Carbon Dioxide	1.63				
Methane	93.97	-35.70	-147.8		
Ethane	0.973				
Ethylene	0.0527				
Propane	0.267				
Propylene	nd				
Iso-butane	0.0788				
N-butane	0.0707				
Iso-pentane	0.0304				
N-pentane	0.0174				
Hexanes +	0.0241				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 986
Specific gravity, calculated: 0.593
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978158 **Job #:** 63330

Sample Name: LDNR-09

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 10:25 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0033				
Hydrogen	nd				
Argon	0.0444				
Oxygen	0.31				
Nitrogen	2.17				
Carbon Dioxide	2.71				
Methane	93.97	-35.15	-146.4		
Ethane	0.590				
Ethylene	nd				
Propane	0.0978				
Propylene	nd				
Iso-butane	0.0461				
N-butane	0.0131				
Iso-pentane	0.0145				
N-pentane	0.0027				
Hexanes +	0.0279				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 970
Specific gravity, calculated: 0.597
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978159 **Job #:** 63330

Sample Name: LDNR-01

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 10:50 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0060				
Hydrogen	nd				
Argon	0.0567				
Oxygen	0.24				
Nitrogen	3.13				
Carbon Dioxide	2.51				
Methane	91.84	-38.96	-154.5		
Ethane	1.43				
Ethylene	0.0006				
Propane	0.424				
Propylene	nd				
Iso-butane	0.102				
N-butane	0.108				
Iso-pentane	0.0455				
N-pentane	0.0318				
Hexanes +	0.0779				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 981
Specific gravity, calculated: 0.610
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978161 **Job #:** 63330

Sample Name: MW-2-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 13:30 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.25					
Oxygen	7.74					
Nitrogen	64.44					
Carbon Dioxide	nd					
Methane	26.56	-75.90	-304.1		10	6.8
Ethane	0.0039				0.0016	0.0020
Ethylene	nd					
Propane	0.0006				0.0002	0.0005
Propylene	nd					
Iso-butane	0.0019					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0010					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978162 **Job #:** 63330

Sample Name: MW-3-5 Purged

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 08:45 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.637					
Oxygen	0.072					
Nitrogen	24.29					
Carbon Dioxide	1.26					
Methane	73.00	-44.15	-155.9		28	19
Ethane	0.656				0.27	0.34
Ethylene	0.0013					
Propane	0.0324				0.013	0.023
Propylene	nd					
Iso-butane	0.0112					
N-butane	0.0009					
Iso-pentane	0.0004					
N-pentane	nd					
Hexanes +	0.0462					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.74
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978163 **Job #:** 63330

Sample Name: LDNR-23

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 08:10 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	0.26					
Helium	na					
Hydrogen	nd					
Argon	1.76					
Oxygen	4.85					
Nitrogen	83.67					
Carbon Dioxide	4.14					
Methane	5.29	-47.39	-194		0.92	0.62
Ethane	0.0290				0.0056	0.0070
Ethylene	nd					
Propane	0.0047				0.00085	0.0016
Propylene	nd					
Iso-butane	0.0012					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0016					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.86
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane hydrogen isotope data obtained online via GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978164 **Job #:** 63330

Sample Name: BKGRD-ATM

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 13:40 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	nd				
Hydrogen	nd				
Argon	0.941				
Oxygen	21.16				
Nitrogen	77.84				
Carbon Dioxide	0.053				
Methane	0.0010				
Ethane	nd				
Ethylene	nd				
Propane	nd				
Propylene	nd				
Iso-butane	nd				
N-butane	nd				
Iso-pentane	nd				
N-pentane	nd				
Hexanes +	0.0002				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.000
Remarks:
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978165 **Job #:** 63330

Sample Name: PPG-7A-BS

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 12:55 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	nd				
Hydrogen	nd				
Argon	0.938				
Oxygen	20.99				
Nitrogen	77.78				
Carbon Dioxide	0.070				
Methane	0.220	-33.2			
Ethane	0.0015				
Ethylene	nd				
Propane	0.0004				
Propylene	nd				
Iso-butane	0.0002				
N-butane	nd				
Iso-pentane	nd				
N-pentane	nd				
Hexanes +	0.0003				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 2
Specific gravity, calculated: 0.999
Remarks:
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978166 **Job #:** 63330

Sample Name: LDNR-28

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 13:10 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	nd				
Hydrogen	nd				
Argon	0.943				
Oxygen	21.03				
Nitrogen	77.90				
Carbon Dioxide	0.12				
Methane	0.0055				
Ethane	nd				
Ethylene	nd				
Propane	nd				
Propylene	nd				
Iso-butane	nd				
N-butane	nd				
Iso-pentane	nd				
N-pentane	nd				
Hexanes +	0.0002				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.001
Remarks:
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978167 **Job #:** 63330

Sample Name: LDNR-10

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 13:20 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	nd				
Hydrogen	nd				
Argon	0.939				
Oxygen	21.03				
Nitrogen	77.75				
Carbon Dioxide	0.071				
Methane	0.204	-34.6			
Ethane	0.0008				
Ethylene	nd				
Propane	nd				
Propylene	nd				
Iso-butane	nd				
N-butane	nd				
Iso-pentane	nd				
N-pentane	nd				
Hexanes +	0.0002				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 2
Specific gravity, calculated: 1.000
Remarks:
Insufficient methane concentration for δD analysis.
Methane carbon isotope data obtained online via GC-C-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978168 **Job #:** 63330

Sample Name: LDNR-27

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 13:30 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	nd				
Hydrogen	nd				
Argon	0.940				
Oxygen	21.03				
Nitrogen	77.96				
Carbon Dioxide	0.069				
Methane	0.0017				
Ethane	nd				
Ethylene	nd				
Propane	nd				
Propylene	nd				
Iso-butane	nd				
N-butane	nd				
Iso-pentane	nd				
N-pentane	nd				
Hexanes +	0.0007				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.000
Remarks:
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978169 **Job #:** 63330

Sample Name: LDNR-22

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 09:00 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0030				
Hydrogen	nd				
Argon	0.248				
Oxygen	2.99				
Nitrogen	14.22				
Carbon Dioxide	0.97				
Methane	79.67	-40.41	-166.8		
Ethane	1.59				
Ethylene	nd				
Propane	0.172				
Propylene	nd				
Iso-butane	0.0523				
N-butane	0.0381				
Iso-pentane	0.0206				
N-pentane	0.0104				
Hexanes +	0.0156				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 845
Specific gravity, calculated: 0.652
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978170 **Job #:** 63330

Sample Name: LDNR-21

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 08:40 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0045				
Hydrogen	0.0047				
Argon	0.0733				
Oxygen	0.11				
Nitrogen	3.52				
Carbon Dioxide	4.01				
Methane	91.19	-37.77	-148.6		
Ethane	0.874				
Ethylene	nd				
Propane	0.0951				
Propylene	nd				
Iso-butane	0.0589				
N-butane	0.0031				
Iso-pentane	0.0275				
N-pentane	0.0002				
Hexanes +	0.0272				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 947
Specific gravity, calculated: 0.616
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978171 **Job #:** 63330

Sample Name: LDNR-18

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 08:25 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0042				
Hydrogen	nd				
Argon	0.0873				
Oxygen	0.20				
Nitrogen	4.29				
Carbon Dioxide	2.11				
Methane	91.98	-36.07	-148.3		
Ethane	0.871				
Ethylene	nd				
Propane	0.229				
Propylene	nd				
Iso-butane	0.0756				
N-butane	0.0643				
Iso-pentane	0.0341				
N-pentane	0.0215				
Hexanes +	0.0328				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 962
Specific gravity, calculated: 0.604
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 978172 **Job #:** 63330

Sample Name: LDNR-19

Company: Environmental Resources Management (ERM)

Container: IsoBag

Field/Site Name: West Lake

Location: Sulphur Dome

Date Sampled: 07/24/2025 10:35 **Date Received:** 07/29/2025 **Date Reported:** 08/27/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd				
Helium	0.0028				
Hydrogen	nd				
Argon	0.0603				
Oxygen	0.65				
Nitrogen	3.51				
Carbon Dioxide	5.85				
Methane	89.22	-36.92	-152.4		
Ethane	0.587				
Ethylene	nd				
Propane	0.0458				
Propylene	nd				
Iso-butane	0.0369				
N-butane	0.0001				
Iso-pentane	0.0125				
N-pentane	nd				
Hexanes +	0.0309				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 919
Specific gravity, calculated: 0.634
Remarks:

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand

www.isotechlabs.com

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: SCott Himes
Company: ERM
Address: 840 W Sam Houston PKWY N. #600
City/State Houston, TX
Phone: 713-834-4361
Email: Scott.Himes@ERM.COM

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address:
City/State SAME
Phone:
Email:

Project: ~~0777906~~ Westlake
Location: Sulphur Dome

Purchase Order #: 0777906
Sampled By: Marcus Smith MS

Select One: ☒ *Standard* ☐ *Priority* ☐ *Rush*

Sample Description

Analyses Requested: NG-1

Container Number	Sample Identification	Date Sampled	Time				Comments
1	LDNR-26	7/22/25	0800				
1	MS-LDNR-26		0800				
1	MSD-LDNR-26		0800				
2	Gas-Dup-01		00:00				
2	LDNR-03		1040				
2	LDNR-06		1235				
3	Gas-Dup-02		00:00				
3	LDNR-24		1300				
3	LDNR-04		1415				
4	LDNR-17	7/22/25	1440				

Chain-of-Custody Record

Signature	Company	Date	Time
Relinquished by MS	ERM	7/23	1700
Received by			
Relinquished by			
Received by			
Relinquished by			
Received by			

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com
Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Hines
Company: ERM
Address: 840 W. Sam Houston PKWY N. #600
City/State Houston, TX
Phone: 713-834-4361
Email: Scott.Hines@ERM.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address: SAME
City/State
Phone:
Email:

Project: West lake
Location: Sulphur Dome
Purchase Order #: 0777906
Sampled By: Marcus Smith MS

Select One: ☐ *Standard* ☐ *Priority* ☐ *Rush*

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: NG-1			Comments
4	LDNR-05	7/23/25	0900				
4	~~EDNR-~~MS-LDNR-05	7/23/25	0900				

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	MS	ERM	7/23	1700
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand

www.isotechlabs.com

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Himes
Company: ERM
Address: 840 W. Sam Houston PKWY N #600
City/State Houston TX
Phone: 713-834-4361
Email: Scott.Himes@ERM.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address:
City/State SAME
Phone:
Email:

Project: West lake
Location: Sulphur Dome

Purchase Order #: 0777906
Sampled By: MS & TB

Select One: [X] Standard [ ] Priority [ ] Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: NG-1	Analyses Requested: DG-1		Comments
8	LDNR-09	7/24/25	1025	✓			
8	LDNR-01	7/24/25	1050	✓			
8	MSD-LDNR-05	7/23/25	0900	✓			
10	MW-2-500	7/24/25	1330		✓		
10	MW-3-500 (purged	7/24/25	0845		✓		
10	LDNR-23	7/24/25	0810		✓		

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	MS	ERM	7/24	1600
Received by	Brody Tuggle / SR Isotech		7/29/25	1030
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand
www.isotechlabs.com
Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Hines
Company: ERM
Address: 840 W. Sam Houston Pkwy N. #600
City/State Houston, TX
Phone: 713-834-4361
Email: scott.hines@ERM.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address:
City/State
Phone: SAME
Email:

Project: West Lake
Location: Sulphur Dome
Purchase Order #: 0777906
Sampled By: MS

Select One: ☑ Standard ☐ Priority ☐ Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: NG-1			Comments
5	BRGRD-ATM	7/24/25	1340				
5	PPG-7A-BS		1255				
5	LDNR-28		1310				
6	LDNR-10		1320				
6	LDNR-27		1330				
6	LDNR-22		0900				
7	LDNR-21		0840				
7	LDNR-18		0825				
7	LDNR-19	7/24/25	1035				

Chain-of-Custody Record

Signature	Company	Date	Time
Relinquished by MB	ERM	7/24	1600
Received by Brody Tuggle / SR Isotech		7/29/25	1010
Relinquished by			
Received by			
Relinquished by			
Received by			

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981476 **Job #:** 63634

Sample Name: MW-2-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/21/2025 11:00 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.404					
Oxygen	3.65					
Nitrogen	19.95					
Carbon Dioxide	0.22					
Methane	75.73	-50.24	-188.5		42	28
Ethane	0.0447				0.027	0.033
Ethylene	nd					
Propane	0.0003				0.0002	0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.63
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981477 **Job #:** 63634

Sample Name: GW-DUP

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/21/2025 00:00 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.21					
Oxygen	4.41					
Nitrogen	60.56					
Carbon Dioxide	nd					
Methane	33.81	-76.59	-310.3		11	7.6
Ethane	0.0038				0.0014	0.0018
Ethylene	nd					
Propane	0.0006				0.0002	0.0004
Propylene	nd					
Iso-butane	0.0018					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.75
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981478 **Job #:** 63634

Sample Name: MW-2-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/21/2025 08:45 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.23					
Oxygen	3.71					
Nitrogen	59.39					
Carbon Dioxide	nd					
Methane	35.66	-76.68	-305.8		11	7.5
Ethane	0.0040				0.0014	0.0017
Ethylene	nd					
Propane	0.0006				0.0002	0.0004
Propylene	nd					
Iso-butane	0.0021					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.76
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981479 **Job #:** 63634

Sample Name: MW-1-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/20/2025 14:30 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.347					
Oxygen	1.96					
Nitrogen	15.75					
Carbon Dioxide	0.51					
Methane	81.41	-56.49	-199.4		89	60
Ethane	0.0328				0.039	0.048
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.40
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981480 **Job #:** 63634

Sample Name: MW-3-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/20/2025 08:40 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.29					
Oxygen	7.07					
Nitrogen	57.69					
Carbon Dioxide	nd					
Methane	33.92	-64.68	-287.0		9.2	6.2
Ethane	0.0322				0.0096	0.012
Ethylene	0.0008					
Propane	0.0027				0.00075	0.0014
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981481 **Job #:** 63634

Sample Name: MW-3-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/19/2025 15:30 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.365					
Oxygen	1.67					
Nitrogen	15.72					
Carbon Dioxide	0.11					
Methane	82.10	-46.75	-191.7		37	25
Ethane	0.0456				0.023	0.028
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.69
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981482 **Job #:** 63634

Sample Name: MW-1-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/20/2025 12:15 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.32					
Oxygen	5.57					
Nitrogen	61.75					
Carbon Dioxide	0.055					
Methane	31.30	-79.81	-286.2		9.5	6.4
Ethane	0.0022				0.00072	0.00090
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981483 **Job #:** 63634

Sample Name: MW-3-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/19/2025 10:40 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.586					
Oxygen	0.096					
Nitrogen	26.65					
Carbon Dioxide	3.11					
Methane	68.81	-43.92	-154.9		39	26
Ethane	0.684				0.42	0.52
Ethylene	0.0006					
Propane	0.0384				0.022	0.041
Propylene	nd					
Iso-butane	0.0195					
N-butane	0.0013					
Iso-pentane	0.0008					
N-pentane	nd					
Hexanes +	0.0074					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.62
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981484 **Job #:** 63634

Sample Name: MW-1-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/20/2025 10:30 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.05					
Oxygen	5.09					
Nitrogen	49.32					
Carbon Dioxide	0.18					
Methane	44.36	-63.09	-307.0		16	10
Ethane	nd				<0.0001	<0.0002
Ethylene	nd					
Propane	nd				<0.0001	<0.0002
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981485 **Job #:** 63634

Sample Name: Cottages

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/20/2025 16:45 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.64					
Oxygen	6.75					
Nitrogen	79.22					
Carbon Dioxide	10.85					
Methane	1.54	-76.5	-168		0.40	0.27
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane isotopes obtained online via GC-C-IRMS/GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981486 **Job #:** 63634

Sample Name: MW-2-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/21/2025 14:30 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.54					
Oxygen	4.46					
Nitrogen	73.49					
Carbon Dioxide	nd					
Methane	20.50	-81.60	-297.0		5.5	3.7
Ethane	0.0040				0.0012	0.0015
Ethylene	0.0006					
Propane	0.0010				0.00028	0.00051
Propylene	nd					
Iso-butane	0.0013					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.79
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981487 **Job #:** 63634

Sample Name: 019-1055

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/21/2025 13:15 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.67					
Oxygen	7.38					
Nitrogen	79.84					
Carbon Dioxide	10.87					
Methane	0.246				0.061	0.041
Ethane	0.0009				0.0002	0.0003
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.84
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981488 **Job #:** 63634

Sample Name: 019-995

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/20/2025 16:15 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.68					
Oxygen	6.56					
Nitrogen	81.61					
Carbon Dioxide	10.08					
Methane	0.0677				0.017	0.011
Ethane	0.0030				0.00082	0.0010
Ethylene	nd					
Propane	0.0014				0.00037	0.00068
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981489 **Job #:** 63634

Sample Name: 019-582

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/20/2025 17:00 **Date Received:** 08/26/2025 **Date Reported:** 09/16/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.67					
Oxygen	6.02					
Nitrogen	81.75					
Carbon Dioxide	10.53					
Methane	0.0328				0.0087	0.0058
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand

www.isotechlabs.com

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Himes
Company: ERM
Address: 840 W Sam Houston Pkwy N
City/State #600 Houston, TX 77024
Phone: 281-600-1000
Email: Scott.Himes@erm.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address:
City/State
Phone:
Email:

Project: 0794035
Location: Sulphur Dome

Purchase Order #:
Sampled By: TB

Select One: ☑ Standard ☐ Priority ☐ Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: DG-1			Comments
1	MW-2-200	8/21/25	11:00	X			
	GW-DUP	↓	99:99	X			
	MW-2-500	↓	8:45	X			
	MW-1-200	8/20/25	14:30	X			
	MW-3-700	↓	8:40	X			
	MW-3-200	8/19/25	18:30	X			
	MW-1-700	8/20/25	12:15	X			
	MW-3-500	8/19/25	10:90	X			
	MW-1-500	8/20/25	10:30	X			
↓	Cotlage	8/20/25	16:45	X			

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by		ERM	8/21/25	16:00
Received by	Dustin Barding/SR Isotech		8/26/25	10:30
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand

www.isotechlabs.com

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Himes
Company: ERM
Address: 840 W Sam Houston Pkwy N
City/State: #600 Houston, TX 77024
Phone: 281-600-1000
Email: Scott.Himes@erm.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:
Company:
Address:
City/State
Phone:
Email:

Project: 0794035
Location: Sulphur Dome

Purchase Order #:
Sampled By: TB

Select One: ☑ Standard ☐ Priority ☐ Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: DG-1			Comments
2	MW-2-700	8/21/25	14:30	X			
	019-1055	8/21/25	13:10	X			
	019-905	8/20/25	16:15	X			
	019-582	8/20/25	17:00	X			

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by		ERM	8/21/25	1600
Received by	Dustin Barding/SR Isotech		8-26-25	10:30
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981866 **Job #:** 63703

Sample Name: PPG 4 (2445')

Company: Environmental Resources Management (ERM)

Container: VOA Vial

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/28/2025 09:11 **Date Received:** 09/02/2025 **Date Reported:** 10/02/2025

δD of water	-19.7‰ relative to VSMOW
$\delta^{18}O$ of water	-4.09‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	na
$\delta^{18}O$ of sulfate	na
DIC Concentration	na
Vacuum Distilled? *	Yes

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981867 **Job #:** 63703

Sample Name: PPG 4 (2615')

Company: Environmental Resources Management (ERM)

Container: VOA Vial

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/28/2025 10:23 **Date Received:** 09/02/2025 **Date Reported:** 10/02/2025

δD of water	-18.1‰ relative to VSMOW
$\delta^{18}O$ of water	-3.87‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	na
$\delta^{18}O$ of sulfate	na
DIC Concentration	na
Vacuum Distilled? *	Yes

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 981868 **Job #:** 63703

Sample Name: PPG 4 (2980')

Company: Environmental Resources Management (ERM)

Container: VOA Vial

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 08/28/2025 11:17 **Date Received:** 09/02/2025 **Date Reported:** 10/02/2025

δD of water	-20.5‰ relative to VSMOW
$\delta^{18}O$ of water	-4.08‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	na
$\delta^{18}O$ of sulfate	na
DIC Concentration	na
Vacuum Distilled? *	Yes

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984457 **Job #:** 64003

Sample Name: Cottages

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 12:45 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.65					
Oxygen	5.80					
Nitrogen	76.99					
Carbon Dioxide	12.07					
Methane	3.48	-92.5	-265		0.90	0.60
Ethane	0.0009				0.0002	0.0003
Ethylene	nd					
Propane	nd				<0.0002	<0.0004
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0025					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.86
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Methane isotopes obtained online via GC-C-IRMS/GC-P-IRMS.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984458 **Job #:** 64003

Sample Name: GW-Dup

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.28					
Oxygen	5.86					
Nitrogen	58.28					
Carbon Dioxide	nd					
Methane	34.58	-76.85	-309.4		11	7.0
Ethane	0.0043				0.0014	0.0018
Ethylene	nd					
Propane	0.0006				0.0002	0.0003
Propylene	nd					
Iso-butane	0.0017					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0039					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.81
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984459 **Job #:** 64003

Sample Name: MW-2-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 14:30 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.30					
Oxygen	5.93					
Nitrogen	57.25					
Carbon Dioxide	nd					
Methane	35.51	-76.93	-313.1		10	7.0
Ethane	0.0044				0.0014	0.0018
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	0.0016					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0013					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.82
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984460 **Job #:** 64003

Sample Name: 019-1055

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 12:30 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.75					
Oxygen	6.24					
Nitrogen	80.74					
Carbon Dioxide	11.14					
Methane	0.124				0.028	0.019
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0001	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0011					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.84
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984461 **Job #:** 64003

Sample Name: 019-582

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 11:00 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.71					
Oxygen	4.06					
Nitrogen	83.25					
Carbon Dioxide	10.95					
Methane	0.0225				0.0052	0.0035
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0001	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.84
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984462 **Job #:** 64003

Sample Name: MW-1-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 09:50 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.28					
Oxygen	7.71					
Nitrogen	66.32					
Carbon Dioxide	0.050					
Methane	24.65	-80.13	-294.2		9.6	6.4
Ethane	0.0018				0.00076	0.00096
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	0.0011					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0006					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984463 **Job #:** 64003

Sample Name: MW-1-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 08:40 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.09					
Oxygen	4.05					
Nitrogen	48.60					
Carbon Dioxide	0.26					
Methane	46.00	-63.31	-308.4		15	10
Ethane	0.0005				0.0002	0.0002
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0019					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.78
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984464 **Job #:** 64003

Sample Name: 019-99S

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/16/2025 10:45 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.72					
Oxygen	5.93					
Nitrogen	81.81					
Carbon Dioxide	10.52					
Methane	0.0133				0.0034	0.0023
Ethane	nd				<0.0002	<0.0002
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0008					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984465 **Job #:** 64003

Sample Name: MW-1-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/15/2025 15:50 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.355					
Oxygen	1.88					
Nitrogen	17.00					
Carbon Dioxide	0.34					
Methane	80.39	-56.54	-201.9		88	59
Ethane	0.0307				0.037	0.046
Ethylene	nd					
Propane	0.0002				0.0002	0.0004
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0004					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.28
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984466 **Job #:** 64003

Sample Name: MW-2-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/17/2025 09:00 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.438					
Oxygen	4.26					
Nitrogen	17.64					
Carbon Dioxide	0.37					
Methane	77.25	-50.84	-189.7		33	22
Ethane	0.0446				0.021	0.026
Ethylene	nd					
Propane	0.0004				0.0002	0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0008					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.70
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984467 **Job #:** 64003

Sample Name: MW-2-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/17/2025 10:30 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.52					
Oxygen	4.32					
Nitrogen	70.53					
Carbon Dioxide	nd					
Methane	23.61	-82.44	-303.0		6.7	4.5
Ethane	0.0046				0.0014	0.0018
Ethylene	0.0009					
Propane	0.0010				0.0003	0.0005
Propylene	nd					
Iso-butane	0.0015					
N-butane	nd					
Iso-pentane	0.0115					
N-pentane	nd					
Hexanes +	0.0011					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.79
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984468 **Job #:** 64003

Sample Name: MW-3-700

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/17/2025 16:15 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.33					
Oxygen	8.77					
Nitrogen	60.72					
Carbon Dioxide	nd					
Methane	29.15	-65.47	-285.4		7.9	5.3
Ethane	0.0245				0.0073	0.0092
Ethylene	0.0010					
Propane	0.0020				0.00056	0.0010
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0010					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984469 **Job #:** 64003

Sample Name: MW-3-500

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/18/2025 09:15 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.693					
Oxygen	3.86					
Nitrogen	28.52					
Carbon Dioxide	nd					
Methane	66.17	-43.86	-156.2		25	17
Ethane	0.656				0.27	0.34
Ethylene	0.0017					
Propane	0.0353				0.014	0.025
Propylene	nd					
Iso-butane	0.0149					
N-butane	0.0011					
Iso-pentane	0.0005					
N-pentane	nd					
Hexanes +	0.0455					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.72
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 984470 **Job #:** 64003

Sample Name: 019-580

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur, LA

Date Sampled: 09/17/2025 07:40 **Date Received:** 09/22/2025 **Date Reported:** 10/20/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	1.65					
Oxygen	4.40					
Nitrogen	82.94					
Carbon Dioxide	10.97					
Methane	0.0443				0.013	0.0084
Ethane	nd				<0.0001	<0.0002
Ethylene	nd					
Propane	nd				<0.0001	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0017					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.79
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
Insufficient methane concentration for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH

a Stratum Reservoir brand

www.isotechlabs.com

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Himes

Company: ERM

Address: 840 W Sam Houston Pkwy N #600

City/State Houston, TX

Phone: 281-600-1000

Email: scott.himes@erm.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:

Company:

Address:

City/State

Phone:

Email:

Project: Sulphur Dome

Location: Sulphur, LA

Purchase Order #: 079485

Sampled By: TB

Select One: ☑ *Standard* ☐ *Priority* ☐ *Rush*

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: D6-1			Comments
	Cottages	9/16/25	1245	X			
	GW-Dup	9/16/25	9999	↓			
	MW-2-500	9/16/25	14:20				
	019-1055	9/16/25	12:30				
	014-552	9/16/25	1100				
	MW-1-700	9/16/25	9:50				
	MW-1-500	9/16/25	8:40				
	014-995	9/16/25	1095				
	MW-1-200	9/15/25	15:50	V			
	MW-2-200	9/17/25	9:00	X			

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	TB/ABM	ERM	9/18/25	10:00
Received by	Brody Tuggle / SR Isotech		9/18/25	1000
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH

a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH

a Stratum Reservoir brand

www.isotechlabs.com

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Scott Himes

Company: ERM

Address: 840 W Sam Houston Pkwy N

City/State #600 Houston, TX 77024

Phone: 281-600-1000

Email: Scott.Himes@erm.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name:

Company:

Address:

City/State

Phone:

Email:

Project: ~~0794~~ 0794035

Location: Sulphur Dome

Purchase Order #:

Sampled By: TB

Select One: ☑ *Standard* ☐ *Priority* ☐ *Rush*

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested: D&O			Comments
2	MW-2-700	9/17/25	10:30	X			
↓	MW-3-700	9/17/25	16:5	X			
	MW-3-500	9/18/25	09:15	X			
	DUP-580	9/17/25	7:40	X			

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	[signature]	ERM	9/18/25	10:00
Received by	Brody Tuggle / SR Isotech		9/22/25	1000
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH

a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61821
P 217-398-3490
isotechlabs.com

Lab #: 985316 **Job #:** 64074

Sample Name: MW-3-200

Company: Environmental Resources Management (ERM)

Container: IsoFlask

Field/Site Name: Sulphur Dome

Location: Sulphur Louisiana

Date Sampled: 09/25/2025 14:10 **Date Received:** 09/30/2025 **Date Reported:** 10/28/2025

Component	Chemical mol%	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰	Dissolved gas cc/L	Dissolved gas mg/L
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.237					
Oxygen	2.78					
Nitrogen	10.32					
Carbon Dioxide	0.77					
Methane	85.85	-46.81	-192.7		49	33
Ethane	0.0461				0.029	0.036
Ethylene	nd					
Propane	nd				<0.0002	<0.0003
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	0.0003					

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.63
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol % is approximately equal to vol. %.

ISOTECH
a Stratum Reservoir brand

www.isotechlabs.com

Reset Form

SEND DATA TO:

Name: Scott Himes

Company: ERM

Address: 840 W. Sam Houston Pkwy N.
Ste 600
Houston, TX 77024

Phone: 832-209-8811

Email: scott.himes@erm.com

Project: Sulphur Dome

PO #: 0732435

Location: Sulphur Louisiana

Sampled By: Taylar Brown

SEND INVOICE TO (if different from SEND DATA TO):

Name:

Company:

Address:

Phone:

Email:

Standard ◉ Priority ○ Rush ○

Analysis Requested

Sample Description

Container Number	Sample Identification	Date Sampled	Time	DG				Comments
1	MW-3-200	9/25/25	14:10	X				

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	TA/AR Brn	ERM	9/26/25	13:00
Received by	Brody Tuggle / SR Isotech		9/30/25	945
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
a Stratum Reservoir brand

© 2021 Stratum Reservoir. All rights reserved. Stratum products and services are subject to the Company's standard terms and conditions, available on request or at isotechlabs.com. For more information contact an authorized Stratum representative. Unless noted otherwise, trademarks and service marks herein are the property of Stratum and may be registered in the United States and/or other countries. Stratum products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact info@isotechlabs.com. Specifications are subject to change without notice. Stratum sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Stratum and the client.

ATTACHMENT 2 FIELD NOTES

34 Location Sulphur, LA Date 7/21/25

Project / Client Westlake

84°F sunny

0900 ERM onsite
sign in and filled out permit

1215 departed bank
1225 set marker on SL-05

SL-05 Bottom (Bott)

time	temp °C	Cond us/cm	TDS ppm	ORP mV	pH
1235	33.4	228.7	149.9	154	6.39

Sample time: 1235

SL-05 top

time	temp °C	Cond us/cm	TDS ppm	ORP mV	pH
1255	35.3	231.5	152.3	110	6.80

Sample time: 1255

SL-04 Bottom (Bott)

time	temp °C	Cond us/cm	TDS ppm	ORP mV	pH
1320	36.5	231.3 us/cm	151.6	83	7.46

sample time 1320

SL-04 Top

time	temp °C	Cond us/cm	TDS ppm	ORP mV	pH
1335	33.4	228.1	149.4	57	7.76

Sample time: 1335

1400 lunch
1500 back from lunch

SL-03 Bottom (Bott)

Time	~~Cond~~ Temp	Cond	TDS	ORP	pH
1525	32.5	229.1	149.6	32	7.99

sample time: 1525

SL-03 Top

Time	temp	Cond	TDS	ORP	pH
1535	34.1	229.2	149.5	44	8.07

SL-02 Bottom (Bott)

Time	temp	Cond	TDS	ORP	pH
1600	32.6	229.1	149.4	77	7.87

Sample time 1600

SL-02 TOP

Time	temp	Cond	TDS	ORP	pH
1615	33.7	228.6	150.0	73	7.95

36

Location _____ Date 7/21/25

Project / Client _____

SL-01 Bottom (Bott)

Time	temp	Cond	TDS	ORP	pH
1630	34.2	226.5	147.7	87	7.9

Sample time 1630

SL-01 Top

Time	temp	Cond	TDS	ORP	pH
1645	33.4	227.8	149.1	74	8.35

Sample time: 1645

1740 off site

Ultrameter temp is off but pH & Cond Calibrated fine

MS

0700 onsite
sign in
~~08~~ 0750 departing bank

★ LDNR-26

Time	~~temp Cond~~	Cond	TDS	ORP	pH
0800	30.6	239.8	155.7	198	6.20

Sample time 0800
SW-Dup 2, MS-LDNR-26, MSD-LDNR-26
Dup-2 taken at 00:00

0915 moving to Central Pond
0925 arrive at central pond

★ LDNR-03 Gas-Dup-01 FF

Time	temp	Cond	TDS	ORP	pH
1040	30.0	1140	798.3	-208	6.56

Sample time 1040

LDNR-06

Time	temp	Cond	TDS	ORP	pH
1235	31.3	1093	767.5	-183	7.05

Sample time 1235

Rite in the Rain

Location

Project / Client

Date 7/22/25

★	LDNR-24		Gas-Dup-02		
Time	Temp	Cond	TDS	ORP	pH
1300	31.6	1026	789.5	-126	6.92

	LDNR-04				
Time	Temp	Cond	TDS	ORP	pH
1415	36.5	1166	117.4	-185	6.79

	LDNR-17				
Time	temp	Cond	TDS	ORP	pH
1440	33.8	1036	721.4	-76	7.05

	LDNR-14 FF		HF	no bubbles	
Time	temp	Cond	TDS	ORP	pH
1510	34.9	1318	926.8	101	7.36

	LDNR-13 FF		HF	no bubbles	
Time	temp	Cond	TDS	ORP	pH
1540	31.9	1620	1152	-148	7.03

1730 offsite

MS

Location Sulphur, LA Date 7/23/25

Project / Client westlake

80°F Sunny

0820 ERM onsite
0730 set out trap on LDNR-1
arrive at central pond
0840 depart from bank

★ LDNR-05

Time	temp	cond	TDS	ORP	pH
0900	30.1	1134	596.5	-125	6.46

MS/MSD water + gas SW-Dup-~~02~~ 01 @ 99:99

~~25~~, 23, ~~07~~, ~~08~~, 22', 21', 18', ~~12~~ on Pond
~~09~~', 19', 01' off land ~~1PG~~ 7B BS
~~bubbles~~

LDNR-12 no bubbles Flask

Time	temp	cond	TDS	ORP	pH
1235	36.7	1245	655.2	67	8.55

LDNR-07 Flask

Time	temp	cond	TDS	ORP	pH
1300	36.6	1175	618.6	94	7.73

~~1415 off water checking on ML LDNR-01, 09, and 19~~

Rite in the Rain

Location

Project / Client

Date 7/23/25

	LDNR-08		Flask		
Time	temp	cond	TDS	ORP	pH
1320	39.8	1380	728.4	81	8.43

	LDNR-25		Flask		
Time	temp	Cond	TDS	ORP	pH
1420	34.6	1436	759.1	116	7.24

1445 off water Checking and setting up LDNR-01, 09, 19

	LDNR-09				
Time	temp	Cond	TDS	ORP	pH
1530	36.1	742.1	385.9	117	7.48

	LDNR-19				
Time	temp	Cond	TDS	ORP	pH
1555	38.4	742.4	385.3	108	8.12

Gas LDNR-01, 09, 19, ~~22, 21, 18~~

water LDNR-01, 22, 21, 18, 23-IF PPG-78

Location Sulphur, LA Date 7/24/25

Project / Client West lake

80°F Sunny

0700 ERM onsite

LDNR-23 ISO flask

Time	Temp	Cond	TDS	ORP	pH
0800	29.3	1182	773.3	-77	7.29

LDNR-18

Time	temp	Cond	TDS	ORP	pH
0825	29.7	1155	607.7	-60	6.90

LDNR-21

Time	temp	Cond	TDS	ORP	pH
0840	29.9	1154	606.7	-61	7.06

LDNR-22 ISObag only no tedlar

Time	temp	Cond	TDS	ORP	pH
0900	30.4	1193	627.8	75	7.52

LDNR-09 gas

1025 Sample time

LDNR-19 gas

1035 sample time

Rite in the Rain

Location

Date 7/24/25

Project / Client

LDNR-01

Time	temp	Cond	TDS	ORP	pH
1050	32.3	1829	967.5	-61	6.98

PPG-7B-BS no Iso flask

Time	temp	Cond ms/cm	TDS ppt	ORP	pH
1120	33.1	119.3	79.92	93	7.94

Cottages no Isoflask

Time	temp	Cond	TDS ppm	ORP	pH
1210	25.7	467.7	240.5	-117	7.40

LDNR-10 sample time 1320

LDNR-27 sample time 1330

LDNR-28 sample time 1310

PPG-7A-BS sample time 1255

BKGRD-ATM sample time 1340

Iso

Cold

Sulphur Dome 077706
7/21/25

10:30 - Arrive on site and check in at control room
Kevin B.
Marcus S.
Zedric C.
Amy D.
Weather is sunny, hot, clear
11:30 Travel to retrieve well depths
MW-1-200 - 22.45'
MW-1-500 - 56.24'
MW-1-700 - 55.56'
MW-2-200 - 47.45'
MW-2-500 - 60.60'
MW-2-700 - 60.50'
MW-3-200 - 52.91'
MW-3-500 - 59.90'
MW-3-700 - 59.53'

Product on probe at MW-2-500

Scale: 1 square =

Sulphur Dome 077706
7/21/25

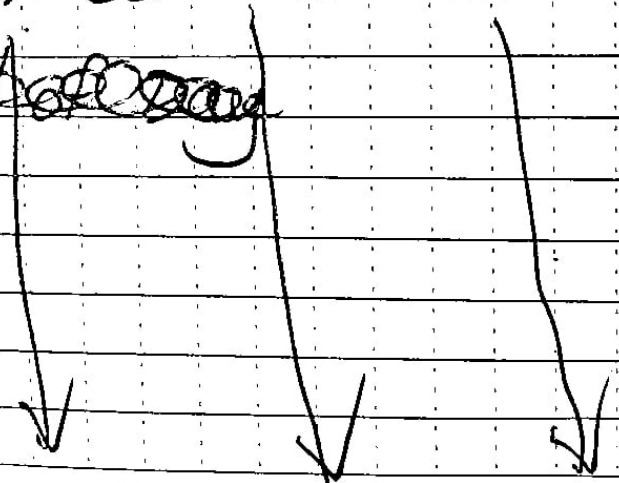
POC1 gas meter readings:

MW-1-200
O_2 = 20.9
CO (ppm) = 0
LEL (%LEL) = 0
H_2S (ppm) = 00

MW-1-500
CO (ppm): 5
H_2S (ppm) 0.0
LEL (% LEL): 0
O_2 (%): 20.9

FB-072125 collected at 16:50

FB Bad of Bag



square =

Rite in the Rain

MW-1-200 Initial DTW: 22.56 7/21/25

TIME	Temp °C	pH	SC uS	ORP mV	DO mg/L	Turb NTU	Flow mL/min	DTW ft
1305	30.36	8.89	556.2	-81.0	0.26	9.00	320	22.52
1310	30.35	8.98	547.2	-291.3	0.144	4.08	320	22.53
1315	30.43	8.72	552.4	-309.9	0.115	6.56	300 TO	22.52
1320	30.43	8.50	555.3	-307.0	0.081	2.62	300	22.52
1325	30.44	8.29	560.2	-299.8	0.059	3.77	300	22.52
1330	30.30	8.22	557.7	-299.9	0.062	3.77	300	22.51
1335	30.69	8.16	569.6	-294.4	0.057	5.83	300	22.50
1340	30.75	8.13	584.0	-293.8	0.051	2.72	300	22.50
1345	30.59	8.17	581.7	-296.4	0.057	3.25	300	22.50

Sample time 1350
Purged 2.5 gal

Sulphur Dome 07779106 108

MW-1-200 Initial DTW: 22.52 7/22/25

Time	temp (°C)	pH	SC (uS/cm)	ORP (mV)	DO (mg/L)	Turb (NTU)	Flow (mL/min)	DTW (ft)
15:30	32.51	8.51	332.9	12.5	0.726	46.4	380	56.80
15:35	31.8	8.03	327.2	41.5	0.532	27.8	" "	56.37
15:40	31.62	7.98	324.5	47.8	0.380	18.8	" "	56.34
15:45	31.75	8.10	322.5	44.3	0.288	16.6	" "	56.34
15:50	31.77	8.079	320.6	49.3	0.24	15.2	" "	" "
15:55	31.73	8.047	319.8	50.9	0.210	13.4	" "	" "
16:00	31.83	8.0	318.0	51.6	0.182	11.9	" "	" "
16:05	31.83	7.99	320.1	51.8	0.173	11.4	" "	" "

Sample Time: 16:15
Purged: 3 gallons

Sulphur Dome 2nd GS Taylor Duplicate 207

Sulphur Dome 0777906

7/22/25 - clear, sunny

0700 - Check into control room Taylar B. Amy D. Zedric C. Marcus S. Kevin B.

POLI meter

MW-1-700

CO - 0 ppm
LEL - 0 %
H_2S - 0 ppm
O_2 - 20.9 %

MW-2-200

CO - 0 ppm
LEL - 0 %
H_2S - 0.0 ppm
O_2 - 20.9 %

MW-2-700 CO - 1 ppm
LEL - 0 %
O_2 20.9% H_2S - 0.0 ppm

TRW

Sulphur Dome 0777906

Sample time - 9:00
Purged 4 gal

MW-1-700	7/22/25					Initial DTW:		NM			
Time	Temp °C	pH	SC µS	ORP mV	DO mg/L	NTU	Head ft	Flow mL/min	DTW ft		
8:20	31.53	8.93	887.5	-289.9	0.40	14.8	0.45	300	55.79		
8:25	31.43	8.92	884.4	-283.6	0.41	14.6	0.43	300	55.73		
8:30	31.51	8.91	885.6	-284.6	0.37	12.6	0.44	300	55.74		
8:35	31.58	8.89	886.4	-283.2	0.34	11.60	0.42	300	55.72		
8:40	31.49	8.88	885.5	-284.0	0.31	12.8	0.43	300	55.73		
8:45	31.81	8.88	884.7	-285.8	0.29	13.5	0.43	300	55.73		
8:50	31.96	8.87	886.6	-288.8	0.25	12.1	0.43	300	55.74		

Scale 1 square = _____

TRW

Rite in the Rain

Sulphur Dome 0777906

MW-2-200 Initial DTW: 49.42 7.22.25

Time	Tem °C	pH	SC µS	ORP mV	DO mgk	Turb NTU	Flow mL/min	DTW ft
1000	30.33	8.57	368.3	-253.0	.153	28.4	350	50.04
1004	29.93	8.31	358.3	-237.7	.156	31.3	350	50.59
1010	29.55	8.19	365.3	-218.4	.146	[illegible]	350	50.93
1015	29.61	8.18	369.0	-218.8	.128	18.2	350	51.23
1020	29.67	8.17	347.2	-214.4	.114	13.8	350	51.22
1025	29.73	8.18	351.6	-218.2	.100	13.6	350	51.04
1030	29.67	8.18	363.7	-225.8	.087	11.7	350	50.92
1035	29.82	8.18	395.3	-231.1	.074	10.	350	50.76

Sample time 1059
Purged 4 gal

TBW

Tub: 23.6

Scale: 1 square = ____

MW-2-700 Initial DTW: 60.21 7/22/25

Time	Temp °C	pH	SC µS	ORP mV	DO mgk	Turb NTU	Flow mL/min	DTW ft
1220	31.27	10.26	890.7	-365.2	0.40	11.2	280	60.25
1225	30.76	10.32	889.7	-371.4	0.38	9.97	280	[illegible]
1230	30.94	9.99	890.3	-355.0	0.31	8.68	280	60.29
1235	30.93	9.80	891.3	-348.2	0.27	7.38	280	60.27
1240	31.05	9.77	891.9	-349.2	0.23	5.95	280	60.28
1245	30.80	9.79	891.6	-352.3	0.20	5.99	280	60.27
1250	30.85	9.79	889.2	-354.3	0.18	4.83	280	60.27
1255	30.97	9.79	889.1	-355.4	0.17	4.90	280	60.26
1300	Sample time							

TBW

Sulphur Dome 0777906

Sulphur Dome 0777906
7/22/25

15:40 - Travel to 019-995 (WW #12)
Sample time - 16:05

UltraMeter -

Tem	Sp.C	TDS	ORP	pH
23.8	322.7	164.7	-53	6.14

FB-072225 taken at 16:15

Travel to 019-582 (WW #13)
sample time - 16:40
temp - 26.0°C TDS - 165.1 ppm
SC - 323.6uS ORP - -36mV
pH - 5.95

End of Day

Sulphur Dome 0777906
7/23/25
0700 - Arrive on site, check in
Weather - sunny, clear
Taylar B. Cedric C.
Kevin B. Amy D.
Marcus S.

7:30 - Loaded coolers up for courier delivery

8:00 - Travel to WW #40 (019-1603)
Purged 5+ min
Temp - 27.1°C ORP - -76mV
SC - 392.1 uS pH - 6.95
TDS - 262.8 ppm

Scale: 1 square =

square =

Rite in the Rain

Sulphur Dome 07779006

MW-3-500 Initial DTW: 59.70' 7/23/25

Time	°C Temp	pH	µS SC	mV ORP	mg DO	Turb	mL Flow	ft DTW
9:40	33.25	9.94	4650	-337.1	0.64	23.1	300	59.78
9:45	32.93	10.02	4561	-310.5	0.38	23.2	300	59.78
950	33.22	10.01	4539	-303.3	0.28	20.8		59.77
955	33.39	9.97	4584	-292.2	0.23	11.6		59.78
1000	33.40	9.96	4577	-282.8	0.22	16.1		59.78
005	33.43	9.96	4556	-272.4	0.19	10.2		59.78
010	33.47	9.96	4569	-266.1	0.16	10.3		59.78
015	33.47	9.96	4567	-259.9	0.15	11.0		59.78
→20	33.40	9.96	4572	-252.2	0.13	12.0	↓	59.78

Sample time 10:30 Purged 5 gal

MW-3-200 Initial DTW: 50.90' 7/23/25

Time	temp °C	pH	µS SC	mV ORP	mg DO	Turb	mL Flow	ft DTW
1130	34.92	9.85	963.3	-376.6	0.710	21.5	200	55.89
1135	34.07	9.70	867.4	-377.8	0.370	17.0	200	55.[illegible]
1140	33.47	9.49	817.9	-361.1	0.319	18.2	200	55.[illegible]
1145	32.73	9.14	761.1	-341.9	0.285	23.2	200	[illegible]5.[illegible]
1150	32.31	9.05	729.5	-333.3	0.275	34.5	200	55.91
1155	32.05	8.82	707.4	-328.1	0.260	45.39 (220)	" "	55.94
1200	31.8	9.69	686.4	-322.2	0.275	43.2	" "	56.0

Continued →

Sulphur, dome
7/23/25
Zedric Taylor Capers Brown

Sulphur Dome 0777906 7/23/25

MW-3-200 Continued

Time	°C temp	pH	µS/cm SC	mV ORP	mg/L DO	Turb	mL/min Flow	ft BTOC DTW
1205	31.49	8.5	673.4	-317.2	0.268	31.5	200	SG.1
1216	32.15	8.4	670.8	-314.2	0.239	29.8	200	56.15

Sample time: 12:20
Purged 2 gal

Scale: 1 square =

Sulphur Dome 0777906 7/23/25

POLI Meter

MW-3-200

CO - 0 ppm
LEL - 0%
H_2S - 0.0 ppm
O_2 - 20.9%

MW-3-500

CO - 0 ppm
LEL - 0%
H_2S - 0.0 ppm
O_2 - 20.9%

MW-3-700

CO - 0 ppm
LEL - 0%
H_2S - 0.0 ppm
O_2 - 20.9%

FB-072325 collected at 16:00

End of Day

1 square =

Sulphur Dome 0777906
7/24/25

MW-3-500 POST PURGE Initial DTW: 59.92'

Time	Temp °C	pH	SC uS	ORP mV	DO mg/L	Turb	Flow mL/min	DTW ft
800	33.83	6.80	6619	-321.8	0.17	16.0	350	59.93
805	33.00	6.77	6623	-327.3	0.15	17.3		59.93
810	32.95	6.79	6636	-337.2	0.11	19.1		59.92
815	33.09	6.90	6654	-350.3	0.10	14.8		↓
820	33.15	7.03	6632	-354.1	0.10	12.7		↓
825	33.22	7.09	6639	-359.6	0.09	11.9		↓
830	33.26	7.13	6654	-362.1	0.08	11.9		↓
835	33.33	7.15	6671	-364.3	0.06	12.3		59.91

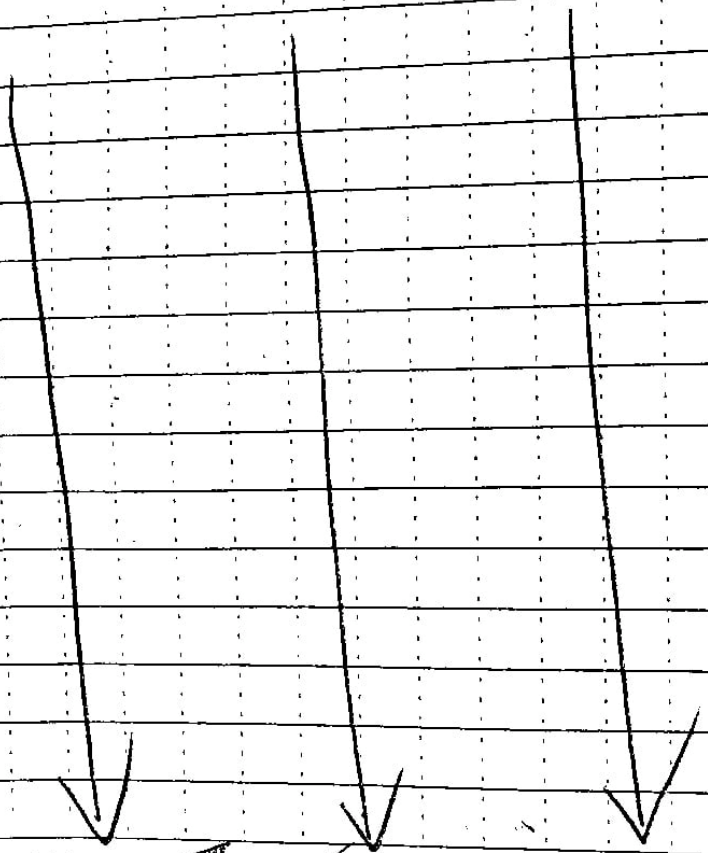
MW-3-5 (PURGED) sample time - 8:45

Scale: 1 square =

7/24/25

GW-Rinsate collected at 9:30

POLI meter
MW-2-500
CO - 1 ppm H_2S - 0.0 ppm
LEL - 0% O_2 - 20.9%



Scale: 1 square = ____

MW-3-700

Initial DTW: 59.15

7/24/25

Time	Temp °C	pH	SC µS	ORP mV	DO mg/L	Turb NTU	Flow mL/min	DTW ft
1010	36.77	8.91	5,788	-238	0.629	21.3	400	59.41
1015	~~8.063~~ 36.94	8.66	5,857	-258.8	0.392	18.4	400	59.36
1020	36.94	8.66	5,939	-261.8	0.297	11.8	" "	" "
1025	36.80	8.72	5,770	-267.3	0.259	10.7	" "	" "
1030	36.91	8.74	5,829	-272.1	0.223	10.7	" "	" "
1035	37.01	8.75	5,748	-274.2	0.231	11.8	" "	" "
1040	37.06	8.77	5,811	-279.2	0.170	10.9	" "	" "
1045	37.16	8.76	5,820	-283.4	0.153	12.2	" "	" "
1050	Sample ~~TOC~~ TB							

Sample Hrs: 1050

No Isotopic Collected

Scale: 1 square = ____

MW-2-500

Initial DTW: 59.72'

7/24/25

Time	Temp °C	pH	SC µS	ORP mV	DO mg/L	Turb NTU	Flow mL/min	DTW ft
1235	30.79	10.72	609.4	-344.2	0.43	10.0	500	59.83
1240	30.97	10.38	551.6	-338.5	0.25	13.2		59.82
1245	31.10	10.06	573.9	-327.6	0.21	13.3		↓
1250	31.06	10.00	598.8	-332.8	0.19	14.6		59.86
1255	31.63	9.95	567.9	-353.0	0.11	14.3		59.85
1300	31.73	9.97	570.9	-361.9	0.08	25.0		59.84
1305	31.84	9.93	546.1	-366.9	0.06	41.0		↓
1310	31.91	9.86	573.9	-365.4	0.06	36.5		↓
1315	32.01	9.79	574.1	-364.4	0.06	28.7		59.83
1320	32.06	9.72	563.8	-362.1	0.06	20.0		↓

CONTINUED →

Sulphur Dome
OTT7906 7/24/25

MW-2-500
Sample time: 13:30

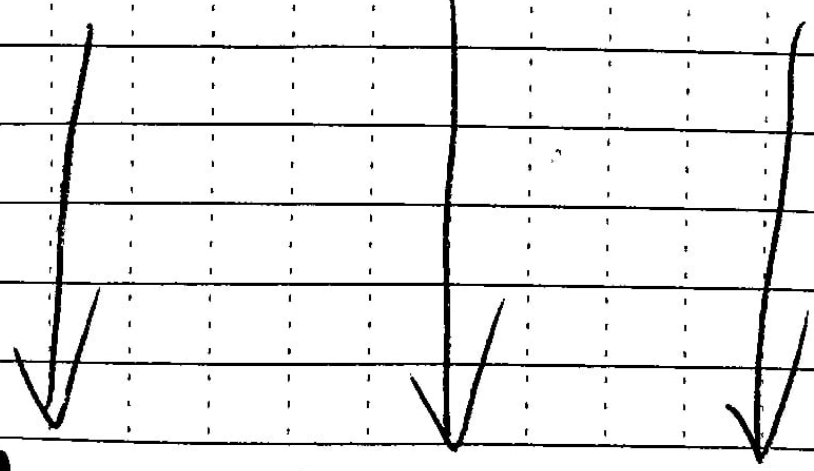
GW-DUP collected here (13:30) as 0:00

MS-MW-2-500
collected at 13:50

MSD-MW-2-500
collected at 13:50

FB-072425 collected at 15:15

End of Event



Scale: 1 square =

Sulphur Dome
Sulphur LA
Scott Himes

7/23/25

0830- SH arrives on site.
Meet Taylor & Zedric at MW-3-500

0900- Set up Stainless Hurricane pump -

0915- Pump started for low flow sampling.

0920 - Pump stops. Likely vapor lock.
Switch to plastic pump.

0930- start pump for low flow sampling

0945- SH leave site to get supplies.

1030- Back on site, @ MW-3-500

1045- Set up for purging

1057- DTW = 59.69'
TD = 475.95'
1 well vol ≈ 106 gal

1100 - Turn on pump

1104- 5 gl purged flow ~ 1.5 gpm
DTW = 60.47.

Scale: 1 square = _____

Sulphur Dome
Sulphur LA
Scott Himes

7/23/25

0777906

Time	DTW	pH	SC	Turb	Gal
1108	60.38	8.86	4703	16.4	10
1117	60.42	7.44	4682	3.92	20
1127	60.39	6.83	4739	4.54	30
1140	60.33	6.76	4854	3.55	40

purge rate slowed to ~0.7 gpm (either truck battery or pump)

1200 - Pump stopped @ ~49 gal

1230 - Try pump again, not responding.
- Pull pump. Damaged cable, exposed / corroded wire.
- Will try new pump

1445 - Start Pump DTW = 59.90' flow ~ 0.7 gpm

Time	DTW	pH	SC	Turb	Gal
1506	60.04	6.46	6035	21.7	~~60~~
1532	60.04	6.52	6160	13.1	~~80~~ 70

flow rate down to 0.37 gpm

1550 - Collect MW-3500 (FS)

1604	60.05	6.61	6233	~~13.1~~ 7.09	80

Scale: 1 square =

Sulphur Dome
Sulphur LA
Scott Hines

7/23/25

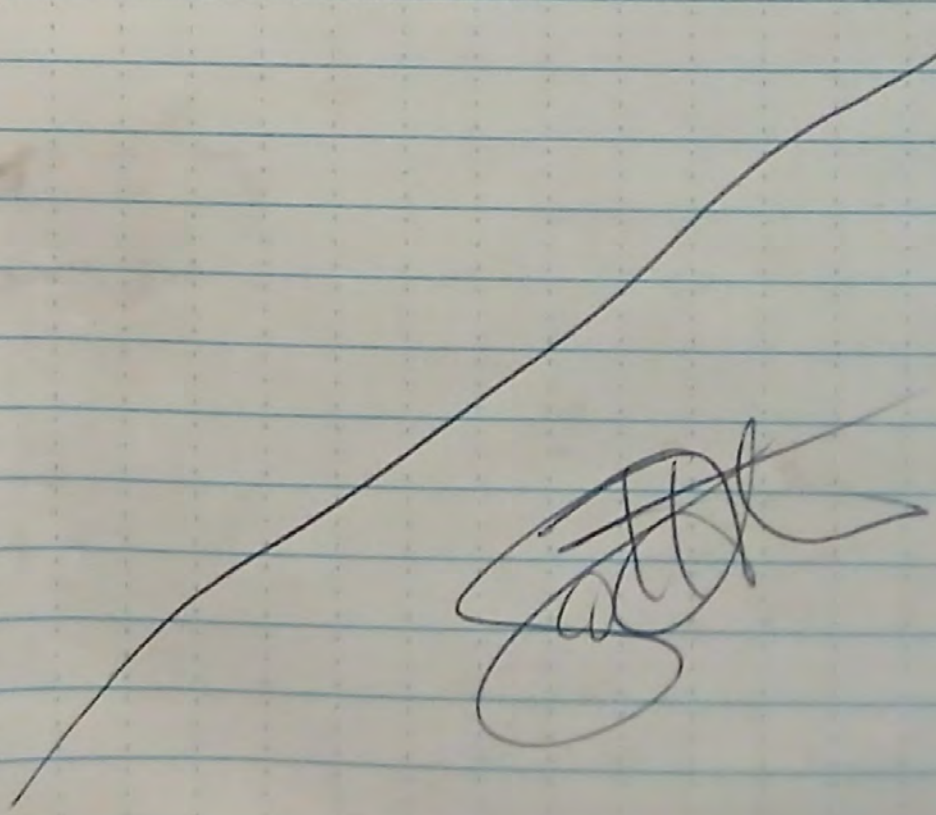
0777906

time	DTW	pH	SC	Turb	Gal
1635	60.04	6.56	6192	7.28	90
1640	Collect MW-3-500 (90) # Dup				
1710	60.04	6.56	6227	5.74	100
1727	60.04	6.47	6192	6.46	

1730- Collect MW-3-500 (106)

1732- Turn off pump - purged 106 gal

1800- SH leave site



Scale: 1 square

Location ~~WestLake~~ Sulphur Date 8/1/25

Project / Client West lake

93°F Sunny Marcus Smith

1230 ERM onsite

sign in.

Parameters: pH, Cond, ORP, temp, TDS, ~~H_2S~~, DO

H_2S will be sampled for.

KZ-Top

time	temp °C	Cond mS/cm	TDS g/L	ORP	DO mg/L	PH
1640	30.28	1.41	0.904	119	1.46	6.91

KZ-Bottom (Bott)

Time	temp	Cond mS/cm	TDS	ORP	DO	pH
1515	29.20	1.44	0.918	-164	0.37	7.11

LZ-Top

Time	temp	Cond mS/cm	TDS	ORP	DO	pH
1540	32.61	1.59	1.02	-50	3.56	7.17

LZ-Bott

Time	tem	cond	TDS	ORP	DO	pH
1555	29.30	1.96	1.27	-177	1.36	6.78

1430 ERM offsite

MS

Sulphur Dome 8/19/25
0794035

7:15 - Arrive on site, check in, fill out permit
8:00 - Zedric C. arrives
8:20 - Travel to monitoring wells to collect water levels

MW-1-200: 22.70'
MW-1-500: 55.65'
MW-1-700: 55.00'
MW-2-200: 47.45'
MW-2-500: 59.65'
MW-2-700: 59.71'
MW-3-200: 53.25'
MW-3-500: 59.19'
MW-3-700: 58.71'

PoCl meter 15:40
MW-3-700
H_2S - 0 ppm
CO - 2 ppm
O_2 - 23.2%
PID - 0.1 ppm
LEL - 0%

Scale: 1 square =

Sulphur Dome 8/19/25
0794035

Mw-3-500 Initial DTW: 59.22'

Time	Temp °C	pH	EC (µS/cm)	ORP mV	DO mg/L	Turb NTU	Flow rate mL/min	DTW (ft)
0935	35.34	8.337	7100	-313.5	0.131	17.6	700	59.28
0940	37.78	8.346	6971	-329.4	0.012	94.8 (32)	700	59.27
0945	35.66	8.336	6935	-346.5	0.0	107	700	59.26
0950	35.60	8.345	6835	-344.1	0.0	122	700	59.26
0955 (2)								
1000	36.69	8.8	6953	-323.3	0.006	96.7	700	59.81
1005	37.86	7.59	7238	-324.7	0.00	33.7	700	59.81
1010	38.31	7.27	7365	-329.1	0.002	21.7	700	59.85
1015	38.27	7.002	7067	-341.2	0.012	24.1	700	59.83
1020	38.90	6.988	7259	-344.7	0.017	15.9	700	59.84
1025	38.91	6.916	7291	-352.0	0.020	(47.9)	700	59.82

Scale: 1 square = TB

Sulphur Dome 8/19/25
0794035

Sulfide test kit from MW-3-500
5.0+

Sample time: 1040

Purge 4 gallons (20)

FB-081925 collected at 13130

POLI Meter read

MW-3-200: 15:30
- H_2S - 0 ppm
- CO - 1 ppm
- O_2 - 23%
- PID - 0 ppm
- LEL - 0%

MW-3-500: 15:35
- H_2S - 0 ppm LEL - 0%
- CO - 2 ppm
- O_2 - 20.9%
- PID - 2.1 ppm

TB

Rite in the Rain

MW-3+200 Initial DTW: 52.47' 8/19/25

Sulphur Dome 0794035

Time	°C Temp	pH	µS SC	mV ORP	mg/L DO	NTU Turb	mL/min Flow	ft DTW
1250	33.57	9.54	1024	-279.0	0.581	21.6	600	54.96
1255	35.26	8.96	868.2	-273.4	0.186	29.7	↓	57.02
1300	34.64	8.75	821.1	-274.3	0.102	32.5	↓	58.12
1305	34.32	8.57	789.3	-273.1	0.07	20.5	↓	59.03
1310	stopped flow, let well recharge							
~~315~~								
TB ~~320~~								
13:40	31.28	8.78	778.9	-254.3	0.16	22.1	400	57.49
1345	34.32	8.91	852.8	-296.8	0.03	21.4	400	58.68
1350	Flow stopped, let recharge						150	NM

Sulphur Dome 0794035

14:25	33.17	9.14	859.0	-232.4	3.9	38.1	250	56.47
14:30	33.33	9.25	924.5	-248.3	2.4	45.3	250	56.65
14:35	33.37	9.07	881.5	-247.7	1.2	31.6		56.65
14:40	32.95	8.88	806.0	-244.3	0.90	26.5		56.64
14:45	32.22	8.83	789.0	-249.2	0.56	18.7		56.70
1450	32.13	8.93	803.1	-259.1	0.31	19.2	↓	56.74
1455	32.32	8.99	8	-262.6	0.24	23.4	100	56.51
1500								

Sample time 15:30

H_2S Test - 0.2 approx.

End of Day

Scale: 1 square = 1ft

Scale: 1 square = 1ft

8/20/25 Sulphur Dome 0794035

0700 - Arrive on site, check in, fill out work permit

0715 - Zedric C. arrives, checks in

0730 - Mobilize to MW-3-700

H_2S Test MW-3-700 - 0.0 mg/L

PoLi Meter Test

MW-1-500 9:45 8/20

H_2S - 0.0 ppm

CO - 0 ppm

O_2 - 25.1 %

PID - 0.0 ppm

LEL - 0 %

MW-1-700 12:17

H_2S - 0.0 ppm

CO - 0 ppm

O_2 - 24.3 %

PID - 0.0 ppm

LEL - 0 %

Scale: 1 square = TB

8/20/25 Sulphur Dome 0794035

MW-3-700 Time	Temp °C	pH	Initial SC mS/cm	ORP mV	DTW: 58.70 DO mg/L	Turb NTU	Flow rate ml/min	DTW ft
0755	23.58	8.78	9.439	-29.8	4.790	13.2	350	58.83
0800	32.92	8.287	4.304	-32.7	4.320	8.51	350	58.83
0805	34.04	8.066	7.789	-27.8	3.876	7.34	350	58.83
0810	34.71	8.020	5.704	-84.5	0.462	8.22	350	58.83
0815	34.78	8.961	5.702	+113.6	0.340	5.67	350	58.83
0820	34.85	8.976	5.647	+115.5	0.291	6.77	350	58.83
0825	34.63	8.965	5.644	-119.9	0.290	6.30	350	58.83
0830	35.05	8.964	5.627	+124.2	0.215	6.30	350	58.83

Purge: 4 gal

Sample @ 0830

Hwy: QBAD

Scale: 1 square = TB

Rite in the Rain

Sulphur Dome 07 94035

MW-1-500 Initial DTW: 55.56' 8/20/25

TIME	Temp °C	pH	SC µS	ORP mV	DO mg/L	Turb NTU	Flow mL/min	DTW ft
945	31.53	8.20	364.9	-138.4	0.40	15.1	400	55.74
950	31.59	8.08	365.4	-143.6	0.23	13.8		
955	31.67	8.00	362.6	-146.0	0.17	11.4		
1000	31.75	7.99	363.8	-146.5	0.15	9.40		55.78
1005	32.16	8.04	364.3	-157.7	0.12	9.48		55.96
1010	32.30	8.08	364.9	-163.6	0.10	8.76		55.80
1015	32.41	8.15	367.1	-170.3	0.09	8.84		

Sample Time - 10:30 H2S Test - 0.0 mg/L
Purged 4 gal

Sulphur Dome 07 94035

MW-1-700 E.DTW = 55.03 ft 8/20/25

Time	Temp °C	pH	SC mS	ORP mV	DO mg/L	Turb NTU	Flow mL/min	DTW ft
1120	33.01	9.183	975.8	-224.8	0.232	13.0	400	55.9
1125	32.5	9.124	979.8	-228.1	0.206	10.8	"	55.47
1130	32.39	8.948	973.1	-217.8	0.161	8.50	"	55.56
1135	32.43	8.882	980.9	-215.2	0.149	8.02	"	55.47
1140	32.99	8.832	983.6	-213.7	0.126	7.91	"	"
1145	32.55	8.824	977.6	-214.3	0.119	7.83	"	"
1150	32.60	8.831	992.5	-216.2	0.106	8.93	"	55.42
1155								

Sample time 1215 H2S test - 0.3 mg/L
purged: 4 gal

Sulphur Dome 0794035 8/20/25

MW-1-200 Initial DTW: 22.68'

Time	°C Temp	pH	µS/cm SC	mV ORP	mg/L DO	NTU Turb	mL/min F/O	ft DTW
1400	30.93	8.40	624.7	-175.0	0.07	4.37	250	22.78
1405	30.74	8.26	630.0	-180.6	0.06	5.21		
1410	30.84	8.17	643.9	-189.5	0.05	3.84		
1415	30.06	8.11	646.1	-198.4	0.04	2.69		
1420	30.78	8.02	653.7	-199.4	0.03	2.99		22.76
1430								
1435	30.85	7.95	655.6	-201.1	0.02			

Sample time 14:30

Purged 1.5 gal

Scale: 1 square = 1 ft

Sulphur Dome 0794035 8/20/25

MW-1-200 POU Meter:

H_2S 0.0

CO = 1 ppm

O_2 = 25.4%

PID 0.7 ppm

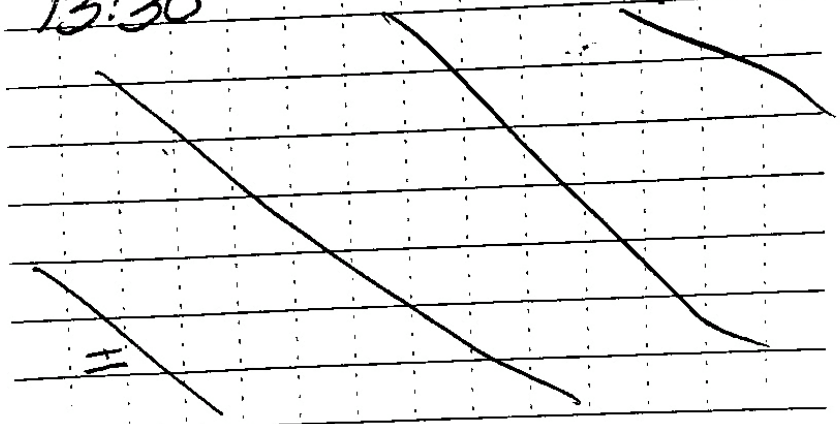
LEL - 0 ppm

13:50 8/20/25

MW-1-200 H_2S Test - 0.0 mg/L

FB-082025 collected at 13:00

GW-Rinsate collected at 13:30



Square = 1 ft

Rite in the Rain

Sulphur Dome 8/20/25
0794035

Travel to well 019-995
(#12) Sample time 16:15
Purged 5+ min
Ultrameter—

δc = 330.1 us
ORP = -57mV
pH = 6.20
TDS = 208.4 ppm
RES = NSM
Temp = 25.7

Travel to Cottages
SC - 480.8 uS
ORP - -69mV
pH - 6.20
Temp - 32.10°C
TDS - 299.8 ppm

Sample time 16:45

Scale 1 square = TB

Sulphur Dome 8/20/25
0794035

Travel to 019-582
(well #13)
Sample time - 17:00
SC - 312.0 uS
ORP - -68
pH - 6.19
TDS - 194.2 ppm
Temp - 26.6°C

Well #11 (019-580) down
for maintenance
Ice samples
Check out in office 17:15

End of Day

Scale 1 square = TB

Rite in the Rain

Sulphur Dome
0794035 8/24/25

700 - Arrive on site, check in, fill out permit

730 - Travel to MW-2 wells, set up equipment

PQLI Meter

MW-2-500
- H_2S - 0.0 ppm
- CO - 0 ppm
- O_2 - 25.1 %
- PID - 0.0 ppm
- LEL - 0%

MW-2-200
- H_2S - 0.0 ppm
- CO - 0 ppm
- O_2 - 20.9%
- PID - 0.0 ppm
- LEL - 0%

Scale 1 square = 1 ft

Sulphur Dome
0794035 8/24/25

MW-2-500 Time	Temp °C	pH	Initial DTW: 59.66 SC µs	ORP mV	TDS mg/L	Turb NTU	Flow rate mL/min	DTW ft
0800	24.49	10.00	633.2	-74.7	0.578	5.02	350	59.74
0805	24.53	10.06	612.1	-107.4	0.358	7.24	"	"
0810	24.54	10.16	604.5	-129.8	0.286	9.27	"	"
0815	24.47	10.18	604.8	-134.9	0.251	6.61	"	"
0820	24.54	10.22	596.3	-139	0.206	5.91	"	"
0825	24.48	10.24	578.5	-140.4	0.186	5.84	"	"

Sample time: 0825
Purge vol.: 9 gal
Inst. flow rate (pump/flow): 0345

H_2S test: 0.2 mg/L
GW Disp collected @ 0940

Scale 1 square = 1 ft

Rite in the Rain

Sulphur Dome 0794035

MW-2-200 | Initial DTW: 46.51 | 8/20/25

Time	Temp °C	pH	SC µS	ORP mV	DO mg/L	Turb NTU	Flow mL/min	DTW ft
1020	29.47	8.33	405.2	-144.9	0.49	14.9	250	49.18
1025	29.14	8.16	399.3	-172.3	0.26	83.2		49.86
1030	29.15	8.18	414.7	-169.4	0.21	23.8		50.10
1035	29.15	8.21	440.3	-174.2	0.17	34.4		49.92
1040	29.15	8.21	438.0	-175.3	0.15	43.0		49.70
1045	29.20	8.19	438.0	-175.3	0.15	43.0		
1050	29.23	8.19	430.1	-176.5	0.14	60.7		

Purged ~3 gal
Sample time - 11:00

H_2S Test - 0.0 mg/L

Scale: 1 square = 1 ft

Sulphur Dome 8/21/25 0794035

Lunch break 11:45 - 12:45

13:00 Travel to water well #19 (019-1055)

Ultrameter -
- SC - 334.9 µS
- ORP - -2 mV
- pH - 6.49
- TDS - 208.4 ppm
- Temp - 25.7°C

Sample time - 13:15

FB-082125 collected at 14:00

PGL Meter 14:15
MW-2-700
- H_2S - 0.0 ppm
- CO - 0 ppm
- O_2 - 20.9%
- PID - 0.0 ppm
- LEL - 0%

Scale: 1 square = 1 ft

Rite in the Rain

MW-2-700 Initial DTW - 59.73' 8/21/25

Time	°C Temp	pH	µS SC	mV ORP	mg/L DO	NTU Turb	mL/min Flow	ft DTW
1355	30.84	9.98	979.2	-238.9	0.735	13.3	400	59.85
1400	30.83	9.936	989.5	-232.0	0.347	6.12	"	"
1405	30.93	9.725	991.3	-232.2	0.246	6.10	"	"
1410	30.99	9.677	1,017	-237.2	0.216	6.97	"	"
1415	30.98	9.660	1,034	-241.7	0.180	8.46	"	59.86
1420	31.01	9.664	1,047	-240.5	0.155	6.27	"	"
1425	31.02	9.656	1,038	-241.0	0.145	6.08	"	"

End of Day

Sample Time: 1430 H2S Test — 0.3 mg/L

Purged: 4 gal

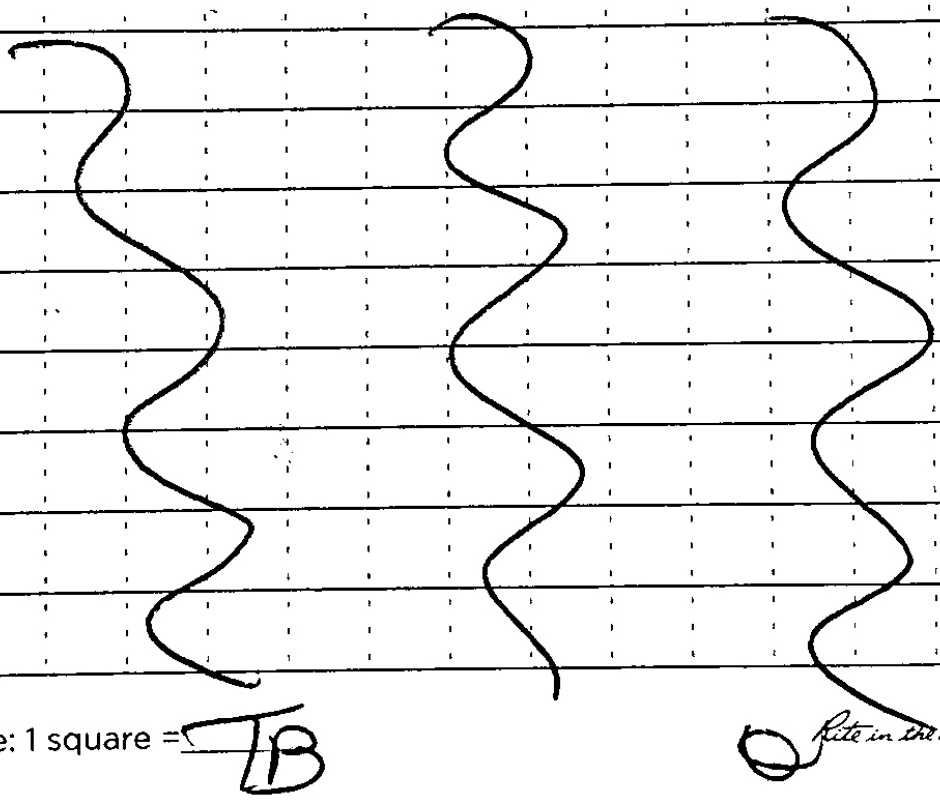
Scale: 1 square =

140 Sulphur Dome 0704035

13:15 - Taylar B, Kelly M., Zedric C. arrive on site + check in

Travel to collect water level readings

MW-1-700: 54.97'
MW-1-500: 57.63'
MW-1-200: 22.56'
MW-2-200: 47.70'
MW-2-500: 59.66'
MW-2-700: 59.64'
MW-3-200: 55.42'
MW-3-500: 59.15'
MW-3-700: 58.69'



Scale: 1 square = TB

Rite in the Rain

Sulphur Dome 9/15/25 0794035

MW-1-200

Time	pH	Temp (°C)	Purge (mg/L)	SC (µS/cm)	ORP (mV)	Turb (NTU)	Flow	Gallons
15:15	8.72	30.56	0.167	550.5	-187.5	1.96	200	22.66'
15:20	8.72	30.26	0.130	543.5	-252.3	0.29	200	"
15:25	8.62	30.26	0.094	544.0	-255.3	3.80	200	"
15:30	8.57	30.18	0.087	544.4	-288.5	2.33	200	"
15:35	8.50	30.24	0.081	545.1	-294.3	NM	200	"
15:40	8.48	30.31	0.077	542.5	-297.8	NM	200	"

Sample time = 15:30
Gallon = 2 gallons

H2S Test - 0.0 mg/L

Scale: 1 square = 1B

Sulphur Dome 9/15/25
0794035

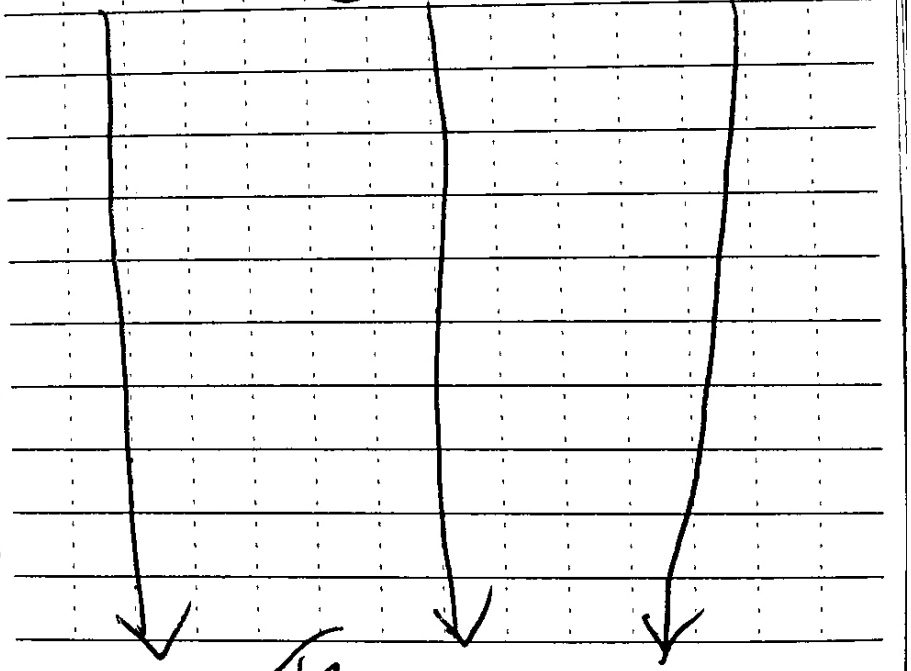
POCI Meter
MW-1-200

CO - 0 ppm
LEL - 0%
H2S - 0.0 ppm
O2 - 20.9%

POCI Turbidity meter stopped working

FB-091525 collected at 16:30

End of Day



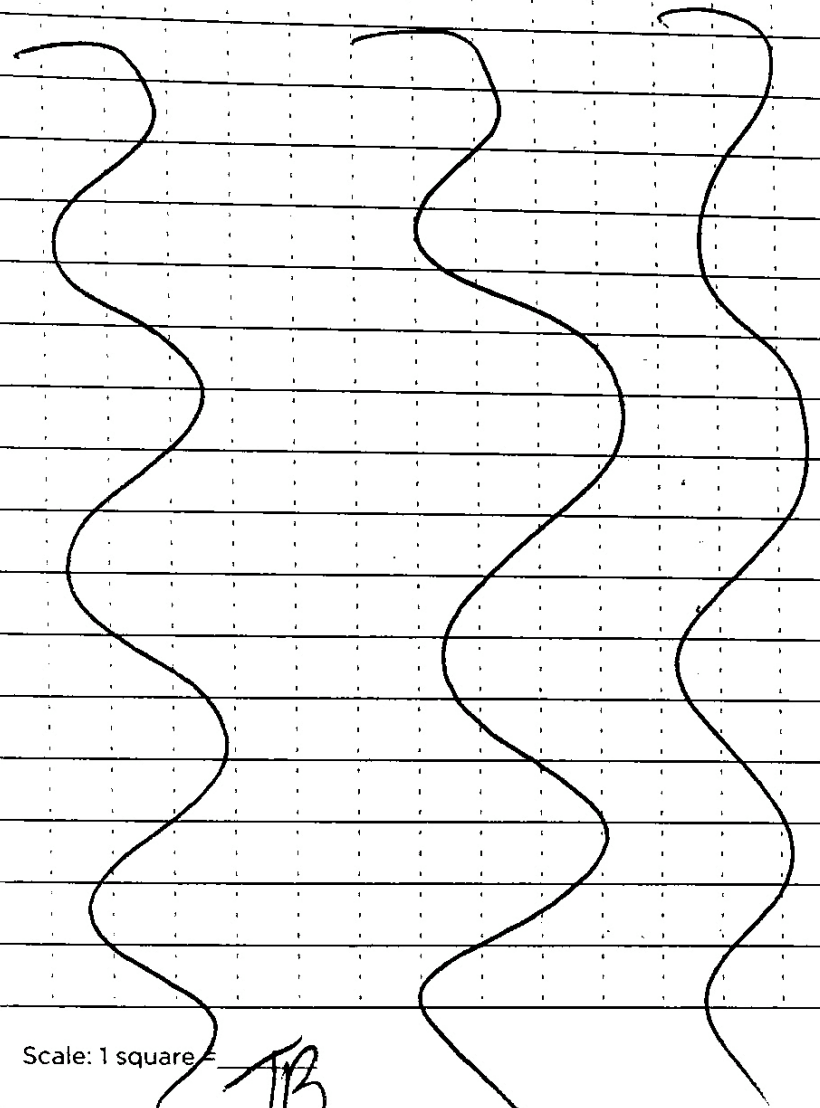
Scale: 1 square = 1B

Rite in the Rain

Sulphur Dome 9/16/25 0794035

7:00 - Taylar B. Kelly M., Zedric C. onsite, check in

FB - 091625 collected at 8:30



Scale: 1 square =

TB

MW-1-500 Sulphur Dome Initial DTW = 55.9

Time	pH	temp °C	ODO mg/L	SpC (uS/cm)	ORP (mV)	Turb (NTU)	Flow (mL/min)	DTW ft
0755	8.43	30.46	0.40	325.3	-225.7	24	490	55.91
0800	8.49	31.07	0.38	321.5	-235.4	23	"	55.92
0805	8.49	31.04	0.274	324.0	-239.9	23	"	"
0810	8.51	31.05	0.262	317.6	-240.9	23	"	"
0815	8.52	31.25	0.257	317.5	-241.4	23	"	"
0820	8.52	31.31	0.241	332.5	-269.6	24	"	"

Sample time: 8:40

Purged 4 gal

Scale: 1 square =

TB

0810 CAG

Rite in the Rain

MW-1-700 Initial DTW: 55.71 Sulphur Dome 073

Time	pH	°C Temp	mg/L RDO	µs/cm SC	mV ORP	NTU Turb	L/min Flow	DTW
0910	9.21	31.18	0.190	862.5	-272.4	NM	500	55.47
0915	9.19	31.86	0.338	857.7	-280.4	NM	"	55.47
0920	9.19	31.99	0.254	842.5	-285.8	NM	"	55.48
0925	9.20	32.07	0.218	857.1	-290.7	NM	"	55.48
0930	9.21	32.10	0.198	858.6	-293.5	NM	"	55.47
0935	9.22	32.15	0.183	851.4	-295.8	NM	"	49.80
0940	9.23	32.26	0.172	839.4	-298.2	NM	"	49.80

Sample Time 0950
- Purged 4.5 Gal
H_2S Test: 0.1 mg/L

Scale: 1 square = TB

Sulphur Dome 9/16/25
0794035

019-995 (Well #12)

Sample time: 10:45
Cond: 326.0 µS pH: 6.07
ORP: -32 mV Temp: 24.7°C

019-582 (Well #13)

Sample time: 11:00
Cond: 315.0 µS pH: 6.25
ORP: -39 Temp: 24.8°C

019-1055 (Well #19)

Sample time: 12:30
Cond: 924.1 µS/cm pH: 6.33
ORP: -15 mV Temp: 25.9°C

Cottages

Sample time: 12:45
Cond: 490.3 µS pH: 6.39
ORP: -65 mV Temp: 29.0°C

MW-2-500 POLI meter
CO-0 ppm H_2S-0.0 ppm
LEL-0% O_2-20.9%

Scale: 1 square = TB

Rite in the Rain

MW-2-500 Initial DTW: 59.82'

Time	pH	Temp	DO	SC	ORP	Turb	Flow (mL)	pH DTW
1330	10.17	30.66	0.726	552.4	~~-282.7~~ TB -324.8	16.9	400	59.88
1335	10.20	30.70	1.31	556.9	-282.7	12.4		
1340	10.36	30.40	0.596	580.3	-304.5	10.4		
1345	10.45	30.10	0.431	599.0	-313.0	8.47		
1350	10.43	30.40	0.336	609.1	-320.9	8.32		
1355	10.41	30.39	0.297	593.2	-324.5	6.98		
1400	10.42	30.25	0.274	614.8	-328.8	5.97		
1405	10.43	30.34	0.258	604.2	-331.8	5.77		59.96
1410	10.43	30.40	0.244	648.2	-333.3	5.47		
TB	~~Sample time 1405~~			Purged				
1415	10.43	30.42	0.232	649.2	-335.6	6.42	11	11

Scale: 1 square = 5 min

Sulphur Dome 9/16/25

1420	10.46	30.32	0.219	643.7	-339.3	10.6	400	11
1425	10.47	30.36	0.206	623.6	-342.3	11.3		11
1430	10.47	30.43	0.196	630.6	-344.1	11.2		

Sample time: 14:30
Purged ~5 gal

GW-DUP collected here 99.99

Sulfide Test: 0.2 mg/L

End of Day

Scale: 1 square = 5 min

TB

Sulphur Dome 9/16/25

Rite in the Rain

9/17/25 Sulphur Dome 0794035

700 - Arrive on site, check in, Fill out permits

745 - Called GW-Rinsate sample

MW-2-200 POU Meter:

CO - 0 ppm H_2S - 0.0 ppm
LEL - 0% O_2 - 20.9 %

H_2S Test: 0.1 mg/L

FB-091725 collected at 10:20

MW-2-700 POU Meter:

CO - 0 ppm H_2S - 0.0 ppm
LEL - 0% O_2 - 20.9 %

Scale: 1 square = 1B

MW-2-200 0794035 Initial DTW: 48.78' Sulphur Dome #66 49.64 9/17/25

Time	pH	Temp	DO	SC	ORP	H2S	Flow	DTW
0815	8.13	28.05	0.264	414.0	-244.0	21.6	300	49.72
0820	8.19	27.92	0.261	413.2	-253.6	19.4	300	50.12
0825	8.21	27.66	0.262	401.7	-250.4	19.8	300	50.15
0830	8.23	27.56	0.260	413.2	-248.9	21.1	300	50.22
0835	8.25	27.48	0.269	438.8	-247.6	24.6	300	50.29
0840	8.26	27.55	0.247	407.7	-247.4	23.2	300	50.33
0845	8.27	27.66	0.223	410.3	-249.1	25.0	300	50.35
0850	8.29	27.78	0.200	410.1	-249.8	28.2	300	50.35

Sample Time 09:00
Purged 2.5 gal

Scale: 1 square = 1B

Rite in the Rain

MW-2-700

Sulphur Dome 9/17/25
0799035
Initial DTW = 60.2 (Ft)

Time	pH	Temp (°C)	DO (mg/L)	SC (µS/cm)	ORP (mV)	Turb (NTU)	Flow	DTW (Ft)
10:00	10.05	29.89	0.416	875.4	-317.8	7.41	450	60.24
10:05	10.05	30.04	2.348	880.7	-313.9	4.99	" "	60.19
10:10	10.05	30.01	0.275	884.0	-328.9	17.4	" "	60.18
10:15	10.04	30.46	0.205	890.2	-335.2	5.97	" "	60.16
10:20	10.03	30.47	0.183	893.2	-338.4	4.18	" "	60.19
10:25	10.03	30.45	0.173	893.0	-340.9	3.57	" "	60.19
10:30	10.03	30.49	0.161	906.8	-343.6	3.48	" "	60.15

Sample Time: 10:30 Sulfide Test: 0.1 mg/L

MW-3-200

0799035
Sulphur Dome 9/17/25
Initial DTW = 50.93 (Ft)
CO (ppm) = 0 % LEL = 0
O_2 (%) = 20.9 H_2S (ppm) = 0

Time	pH	Temp (°C)	O_2 mg/L	SC (µS/cm)	ORP (mV)	Turb	Flow	DTW
11:45	9.56	33.99	0.248	926.0	-346.4	74.9	100	50.93
11:50	9.53	33.84	0.254	892.0	-348.3	75.9	100	54.49
11:55	9.45	33.52	0.238	841.3	-343.0	NM	100	54.59
* 12:00	Paused to Let Recharge*							
12:05	9.34	33.45	7.155	0.492	-290.5	100	80	54.47
12:10	9.28	32.48	3.561	778.3	-291.9	NM		52.93

Pump not working, possible vapor lock?
Let recharge 1 hr - turned on pump, no water
Pulled up pump, still working, must be well issue?
Did not collect samples

Scale: 1 square = _____

Written on Rain...

Sulphur Dome 9/17/25 0794035

MW-B-700 Initial DTW: 58.95' CO: 0 ppm O2: 20.

H2S: 0.0 ppm LEL: 0

Time	pH	Temp	DO	SC	ORP	Turb	Flow	DTW
235	8.50	34.95	3.67	4870	-34.2	15.5	375	59.21
240	8.86	35.96	1.59	5,012	-170.8	8.38	↓	59.22
245	9.04	35.93	1.13	4939	-176.8	5.49	↓	"
250	9.06	35.89	0.94	4903	-188.4	4.90	↓	"
255	9.08	35.98	0.78	4881	-198.0	5.41	↓	59.33
300	9.08	36.13	0.57	4897	-207.3	4.43	↓	"
305	9.08	36.31	0.45	4849	-215.7	4.06	↓	59.22
310	9.09	36.20	0.38	4786	-222.6	4.18	↓	"
315	9.10	36.06	0.32	4798	-229.0	3.55	↓	"
320	9.11	36.00	0.28	4774	-234.1	3.85	↓	"
325	9.12	35.97	0.25	5068	-241.4	3.59	375	59.23
330	9.11	36.28	0.21	5049	NM	NM	↓	↓

Pump stopped working

Turned off, let recharge 5min

340	8.89	36.83	6.87	4968	-97.1	25.4	400	59.25
345	9.06	36.72	0.96	4945	-207.0	20.6	200	59.24
~~2000~~	Hooked pump to different truck						2000	
355	9.12	34.85	0.60	4911	-223.9	18.4	420	59.22

400 Pump giving issues, decided to sample now

No consistent water flow

Sample time - 4:15

H2S Test: 0.0 mg/L

16:15

End of Day

Scale: 1 square =

9/18/25 Sulphur Dome 0794035

7:00 - Arrive on site, sign in, work permit

7:30 - Travel to Well #11
019-580 (#11)
Sample time - 7:40
Cond: 334.7 uS pH: 6.06
ORP: -32mV Temp: 22.7°C

Poli meter

CO = 0 ppm LEL = 0%

H_2S - 0.0 ppm O_2 = 20.9%

FB - 09/825 collected at 8:45

Well #40 inoperable, unable to sample

Scale: 1 square = TB

Sulphur Dome 0794035 Unithol DRW: 60.0

DRW-3+500 Time	pH	Temp	DO	SC	ORP	Turb	Flow	DRW
0830	8.886	30.17	3.814	61.941	-284.0	8.58	450	59.63
0835	9.469	32.75	1.186	61.112	-187.0	7.51	"	59.62
0840	9.584	32.91	0.469	61.234	-204.3	6.86	"	59.62
0845	9.601	32.90	0.268	61.165	-215.1	6.03	"	59.62
0850	9.477	32.87	0.238	61.091	-222.5	5.94	"	59.62
0855	9.421	32.80	0.203	61.110	-228.2	6.25	"	59.62
0900	9.180	32.84	0.182	61.141	-227.7	5.58	"	59.62

Sample Time: 9:15

H_2S Test:
0 (3rd)
MS+MSD Collected 9:15

End of Event

Scale: 1 square = 2C

Rite in the Rain

9/25/25
Scott Himes

Sulphur Dome
Sulphur LA
0794035

1105 - Scott Himes arrive on site
1115 - Taylor Brown on site
- Take left over samples to storage
1200 - Set up at MW-3-200
DTW = 53.44 ft btoc
1239 - Start pump (gas break installed below pump)

Time	DTW	pH	SC	ORP	DO	Turb	Flow
1335	56.96	8.50	688	-182.9	0.59	232	200
1340	57.47	8.42	664	-183.5	0.56	140	~~150~~
1345	57.50	8.37	663	-181.3	0.57	835	125
1350	57.41	8.35	662	-179.5	0.60	52.8	125
1355	57.58	8.35	660	-179.2	0.64	41.1	125
1400	57.56	8.34	659	-192.7	0.57	35.7	~~125~~ 125
1405	57.45	8.35	661	-173.4	0.65	38.1	125

$H_2S \approx 0.3$

1410 Collect MW-3-200

1430 - Collect field blank

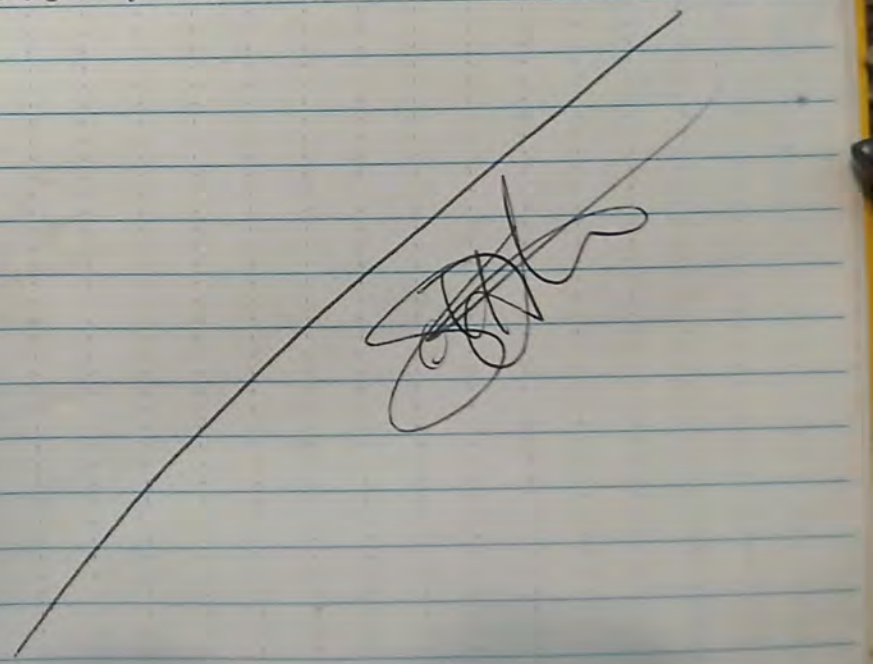
1248 - Pump stopped - no flow

1322 - Start bladder pump
Set at 2 CPM 25.0 refill 5 discharge
flow @ ~ 200 mL/min

1342 - Adjust pump setting 2 CPM
27 refill 3 discharge pressure @ ~130 ft

1354 - Adjust flow rate - still ~ 125 mL/min
26.5 refill 3.5 discharge

1530 - Leave site



Scale: 1 square = _____