June 23, 2025
Kleinfelder Project No. 25002443.001A

Mr. Blair Rollins
QB Energy Operating, LLC
1001 17th Street #1600
Denver, Colorado 80202

SUBJECT: **Site Investigation Report**
QB Energy Operating, LLC
Gas Gathering Pipeline System Decommissioning
Remediation Project Number: 24190
OP15 to G15OU Pipeline
Mesa County, Colorado

Dear Mr. Rollins:

Kleinfelder Inc. (Kleinfelder) performed soil sampling activities at the OP15 to G15OU Pipeline in Mesa County, Colorado under contract by QB Energy Operating, LLC (QB Energy). Enclosed is the report of work complete for this effort.

Please do not hesitate to contact me at (970) 209-3420 or by email at TSchmalz@kleinfelder.com should you have questions or concerns.

Respectfully submitted,
KLEINFELDER, INC.

Tristan Schmalz

Tristan Schmalz
Project Manager I

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SITE INVESTIGATION REPORT
QB ENERGY OPERATING, LLC
GAS GATHERING PIPELINE SYSTEM DECOMMISSIONING
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
MESA COUNTY, COLORADO

KLEINFELDER PROJECT NO. 25002443.001A

June 23, 2025

A Report Prepared for:

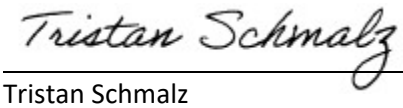
QB Energy Operating, LLC
1001 17th Street #1600
Denver, CO 80202

SITE INVESTIGATION REPORT
QB ENERGY OPERATING, LLC
GAS GATHERING PIPELINE SYSTEM DECOMMISSIONING
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
MESA COUNTY, COLORADO

Prepared by:

Bill Bergeron
Senior Professional

Reviewed by:



Tristan Schmalz
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June 23, 2025
Kleinfelder Project No. 25002443.001A

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QB ENERGY OPERATING, LLC
GAS GATHERING PIPELINE SYSTEM DECOMMISSIONING
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
MESA COUNTY, COLORADO

1 INTRODUCTION

This document was prepared by Kleinfelder Inc. (Kleinfelder) on behalf of QB Energy Operating (QB Energy) to provide documentation of recent sampling support services conducted on the OP15 to G15OU Pipeline in Mesa County, Colorado (**Figure 1**).

Kleinfelder has been contracted by QB Energy to perform soil sampling support services to provide necessary information to complete the Colorado Energy and Carbon Management Commission (ECMC) Form 27 for their upstream oil and gas production facilities located in the Piceance Basin. QB Energy submitted Approved ECMC Form 27 Site Investigation and Remediation Workplan (document #403087301) as an initial notification to the removal of the OP15 to G15OU Pipeline. As prescribed in the Initial Approved ECMC Form 27 Site Investigation and Remediation Workplan and Supplemental Approved ECMC (document #403735183 and #403967920), QB Energy proposed the collection of background grab soil samples from three (3) separate soil borings located in undisturbed immediately adjacent to the pipeline right-of-way (ROW) and upgradient of the pipeline. Kleinfelder collected the background soil samples from a drill rig on May 20, 2025. The samples were analyzed by Pace Analytical National Laboratory (Pace) and results are reported herein.

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2 SITE LOCATION AND GEOLOGIC SETTING

The OP15 to G15OU Pipeline is located within the Piceance Basin in Mesa County, Colorado (SESE, Section 15, Township 8 South, Range 96 West) (**Figure 1**). The Piceance Basin is a geologic structural basin consisting of sandstones and siltstones, containing reserves of coal, natural gas, and oil shale.

No surface water or groundwater were encountered during Kleinfelder's soil sampling activities. Adjacent land was observed to be rangeland. The general soil type within the pipeline removal area was classified based on Kleinfelder's field observations using the Unified Soil Classification System (USCS) and were observed as clayey gravels, gravel-sand-clay mixtures. Topographical information is provided on **Figure 1**.

Based on field assessment and desktop review, it is believed there is no reasonable pathway for groundwater within the investigation area. A tributary to Alkali Creek crosses the pipeline ROW approximately 200 feet north of the PL01 sample locations. The nearest registered water wells (permit #46651-MH and 46809-MH) have a static water level of 61 feet and 45 feet below ground surface (bgs), respectively. The deepest soil samples to date were collected from 10 feet bgs.

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3 FIELD ACTIVITIES

As prescribed within the approved ECMC Form 27 Site Investigation and Remediation Workplan, Kleinfelder performed the following field activities at the OP15 to G15OU Pipeline on May 20, 2025.

May 20, 2025

- Collected four (4) background grab soil samples from the soil boring located east of the OP15 Pad [20250520-OUBG-(OP15-E1)@5-6], [20250520-OUBG-(OP15-E1)@10-11], [20250520-OUBG-(OP15-E1)@15-16], and [20250520-OUBG-(OP15-E1)@19-20] ranging between 5 and 20 feet;
- Collected four (4) background grab soil samples from the soil boring located east of the H16OU Pad [20250520-OUBG-(OP15-E2)@5-6], [20250520-OUBG-(OP15-E2)@10-11], [20250520-OUBG-(OP15-E2)@15-16], and [20250520-OUBG-(OP15-E2)@19-20] ranging between 5 and 20 feet bgs;
- Collected four (4) background grab soil samples from the soil boring located west of the H16OU Pad [20250520- OUBG-(OP15-W)@5-6], [20250520-OUBG-(OP15-W)@10-11], [20250520-OUBG-(OP15-W)@15-16], and [20250520-OUBG-(OP15-W)@19-20] ranging between 5 and 20 feet bgs;
- Created geotechnical soil logs every 5 vertical feet of the soil boring;
- Shipped the background soil samples to Pace to analyze for sodium adsorption ratio (SAR).

QB Energy identified all soil sample locations prior to each sampling event. QB Energy directed Colorado Drilling and Sampling (Colorado Drilling) to complete three (3) background soil borings from undisturbed locations east and west of the OP15 Pad ranging from 5 to 20 feet bgs. In addition to soil sampling, QB Energy directed Kleinfelder to complete geotechnical soil logs for all the soil borings. All soil borings samples were backfilled with drilling cuttings by Colorado Drilling. Soil samples were collected utilizing standard penetration split spoon sampler and California sampler. Soil samples were placed into laboratory-supplied, 9-ounce jars with Teflon. Each soil sample was collected directly from the drilling rig from the appropriate depth and placed into the glass jars. The samples were immediately placed on ice in a cooler. Standard chain-of-custody (COC) procedures were used during sampling and transportation to Pace in Mount Juliet, Tennessee (via FEDEX). Background soil sample were analyzed for SAR. Kleinfelder used an EOS Arrow 100 Submeter Global Navigation Satellite Receiver (GNSS) to record latitude and longitude of the sample locations. Sample locations are shown on **Figures 2-5**.

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Sampling equipment (i.e., hand auger, soil sampler, etc.) was washed with a solution of Liquinox® detergent, rinsed with tap water, and then distilled water between samples. During soil sampling activities, Kleinfelder documented staining and/or odor observations, if any. Soil sample conditions and locations are provided in **Table 1**.

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4 RESULTS

Kleinfelder observed soil conditions during the soil sampling activities. Hydrocarbon odors and soil staining were not observed at any soil sample locations. **Table 1** summarizes the samples and associated field observations.

The SAR concentrations from the twelve background soil samples collected on 5/20/2025 ranged from 5.61 – 34.2 units. Eleven out of twelve SAR concentrations exceeds the ECMC Table 915-1 Residential Soil Screening Levels (RSSLs) of 6 units for SAR (**Table 2**). These background SAR concentrations are utilized in conjunction with SAR concentrations detected from background soil samples collected on 7/27/2022 and 10/5/2022 to better establish site-specific naturally occurring background SAR concentrations.

The SAR concentrations from the background soil samples ranged from 0.0437 – 34.2 units (**Table 2**). Per ECMC Table 915-1 Footnote 1, the reference limit for SAR would be revised from 6 to 34.2 units. Therefore, concentrations of SAR from site-assessment samples are below laboratory detection limits, ECMC Table 915-1 RSSLs, and/or naturally occurring background concentrations for all site-assessment samples with the exception of SAR concentrations from two site-assessment soil samples. Site-assessment soil samples 20220831_OP15_PL06WWALL@7ft and 20220831_OP15_PL06@7ft had SAR concentrations of 38.8 and 42.3 units, respectively, which exceed the revised background SAR reference limit of 34.2.

Background samples collected in the 5–6-foot bgs depth interval is nearest depth interval of the exceedances, which were both located at 7 feet bgs. As requested by QB Energy, Kleinfelder completed a statistical analysis for SAR concentrations background soil samples collected in the 5–6-foot bgs depth interval and site-assessment soil sample concentrations in the 5–7-foot bgs depth interval, see **Appendix A**. Additionally, average SAR concentrations from the 0-5-, 5-10-, and 10–20-foot depth intervals from background and site-assessment samples were calculated and are shown in a bar graph in **Appendix A**. The statistical analyses were performed to better understand acceptable background ranges for SAR and to compare site-assessment and background SAR concentrations at similar depth intervals.

Statistical analysis demonstrates the following:

- Background soil samples collected in the 5–6-foot bgs depth interval demonstrates SAR values have a Lower Outlier Limit (LOL) of -26.0265 and Upper Outlier Limit (UOL) of 69.695;

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- Average SAR concentrations in the 5-6-foot bgs depth interval are 24.34 for background and 25.14 for site-assessment samples in the 5-7 foot bgs depth interval;
- The highest SAR concentration from a site-assessment soil sample (42.3) is less than 25% greater than the highest background SAR concentration (34.2);
- The two SAR exceedances would be less than the calculated background UOL of 69.695;
- Average SAR concentrations are 4.2 for background and 2.5 for site-assessment samples in the 0–5-foot bgs depth interval;
- Average SAR concentrations are 17.8 for background and 15.7 for site-assessment samples in the 5–10-foot bgs depth interval; and
- Average SAR concentrations are 8.0 for background and 6.4 for site-assessment samples in the 10–20-foot bgs depth interval.

Analytical results are summarized in **Table 2,** statistical analysis results are provided in **Appendix A,** and soil sample locations are provided on **Figures 2-5**.

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5 CONCLUSIONS AND RECOMMENDATIONS

Twelve background soil samples were collected on 5/20/2025 from undisturbed areas immediately adjacent to the ROW and upgradient of the pipeline, which were utilized in conjunction with SAR concentrations detected from background soil samples collected on 7/27/2022 and 10/5/2022 to compare to the site-assessment soil samples. The SAR concentrations from the background soil samples ranged from 0.0437 – 34.2 units (**Table 2**). Per ECMC Table 915-1 Footnote 1, the reference limit for SAR would be revised from 6 to 34.2 units.

The following conclusions and recommendations are for the OP15 to G15OU pipeline system decommissioning soil samples collected between July 14, 2022, and July 21, 2023:

Total Petroleum Hydrocarbon (TPH): Soil samples indicated concentrations of TPH are below laboratory detection limits and/or below ECMC Table 915-1 RSSLs, see **Table 2**.

Soil Suitability for Reclamation: Soil samples indicated concentrations of soil suitability for reclamation analytes are below laboratory detection limits, below ECMC Table 915-1 RSSLs, naturally occurring background concentrations (**Tables 2**), and/or have been removed as a constituent of concern per consideration of Rule 915.e.(2) C, as a constituent of concern with the exception of SAR concentrations from two site-assessment soil samples. However, the two SAR concentrations exceeding the revised background SAR reference limit of 34.2 would be below the calculated background UOL of 69.695. Additionally, Additionally, as shown in a bar graph in **Appendix A,** average SAR concentrations from the 0-5-, 5-10-, and 10–20-foot depth intervals from background are higher than concentrations from site-assessment samples of the same depth intervals. Therefore, the SAR exceedances found within the investigation area are due to natural variances in the soil types in this area and are not associated with the release of product associated with oil and gas operations. Therefore, based on the likely range of SAR concentrations demonstrated by the statistical analysis, QB Energy requests to modify the maximum allowable concentration for SAR to 69.695.

Organic Compounds: Soil samples indicated concentrations of organic compounds are below laboratory detection limits and/or below ECMC Table 915-1 RSSLs, see **Table 2**.

Metals: Soil samples indicated concentrations of metals are below laboratory detection limits, below ECMC Table 915-1 RSSLs, and/or naturally occurring background concentrations, see **Table 2**.

As indicated above, all concentrations of contaminants of concern from the OP15 to G15OU pipeline system decommissioning soil samples are below laboratory detection limits, below ECMC Table 915-1 RSSLs, naturally occurring background concentrations**,** and/or have been removed as a constituent of concern. Additionally, there was no indication of a release at any location within the pipeline ROW as shown by the lack of hydrocarbon odor, soil staining, and PID readings being less than 3 parts per million (PPM) (**Table 1**). Therefore, Kleinfelder recommends QB Energy request to modify the maximum allowable concentration for SAR to 69.695 and a no further action (NFA) designation from the ECMC for this OP15 to G15OU pipeline gas gathering pipeline system decommissioning remediation project.

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6 LIMITATIONS

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that QB Energy has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage, or treatment of hazardous materials within the meaning of any governmental statute, regulation, or order. QB Energy is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. QB Energy is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder’s services.

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FIGURES

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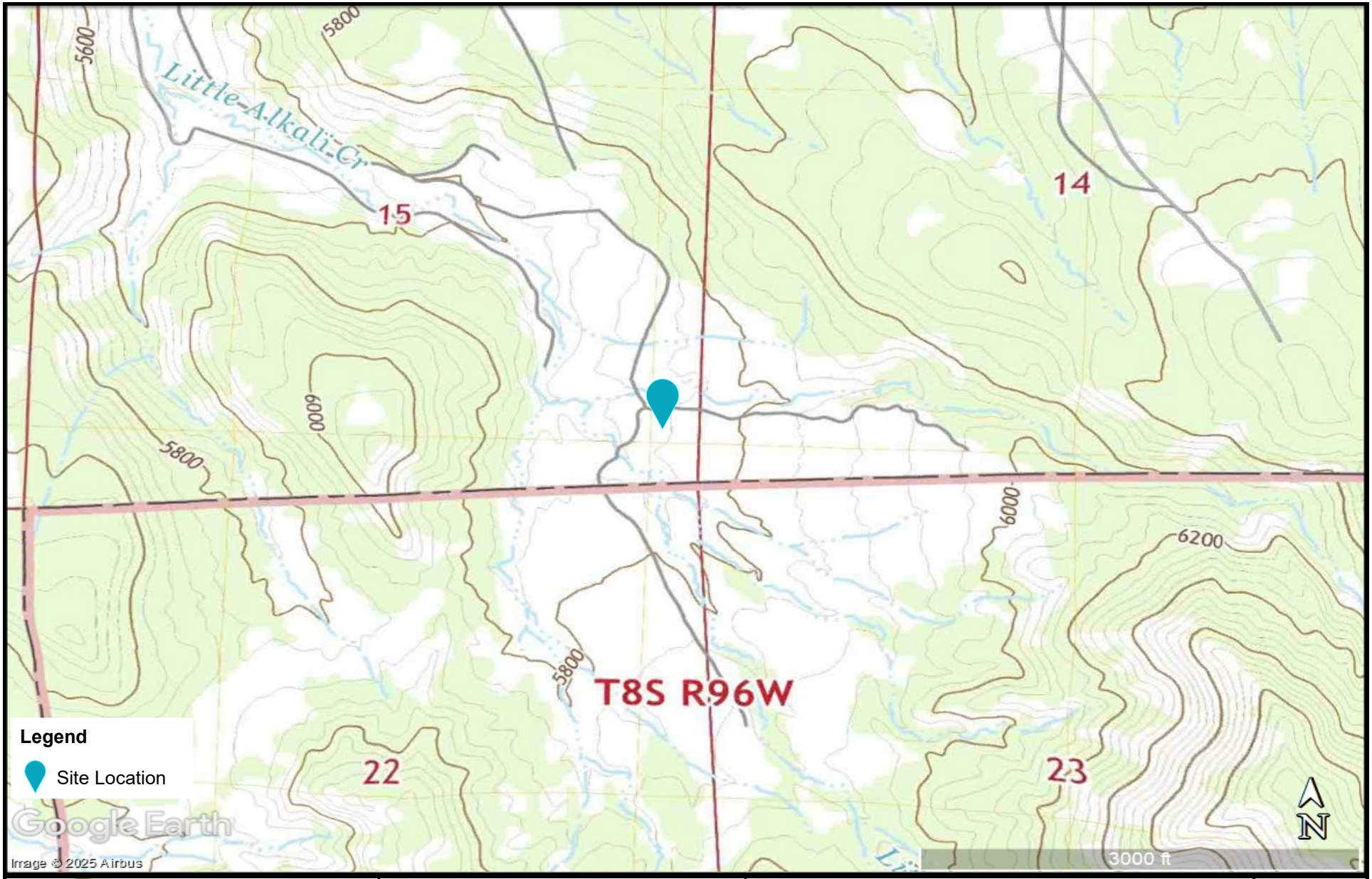

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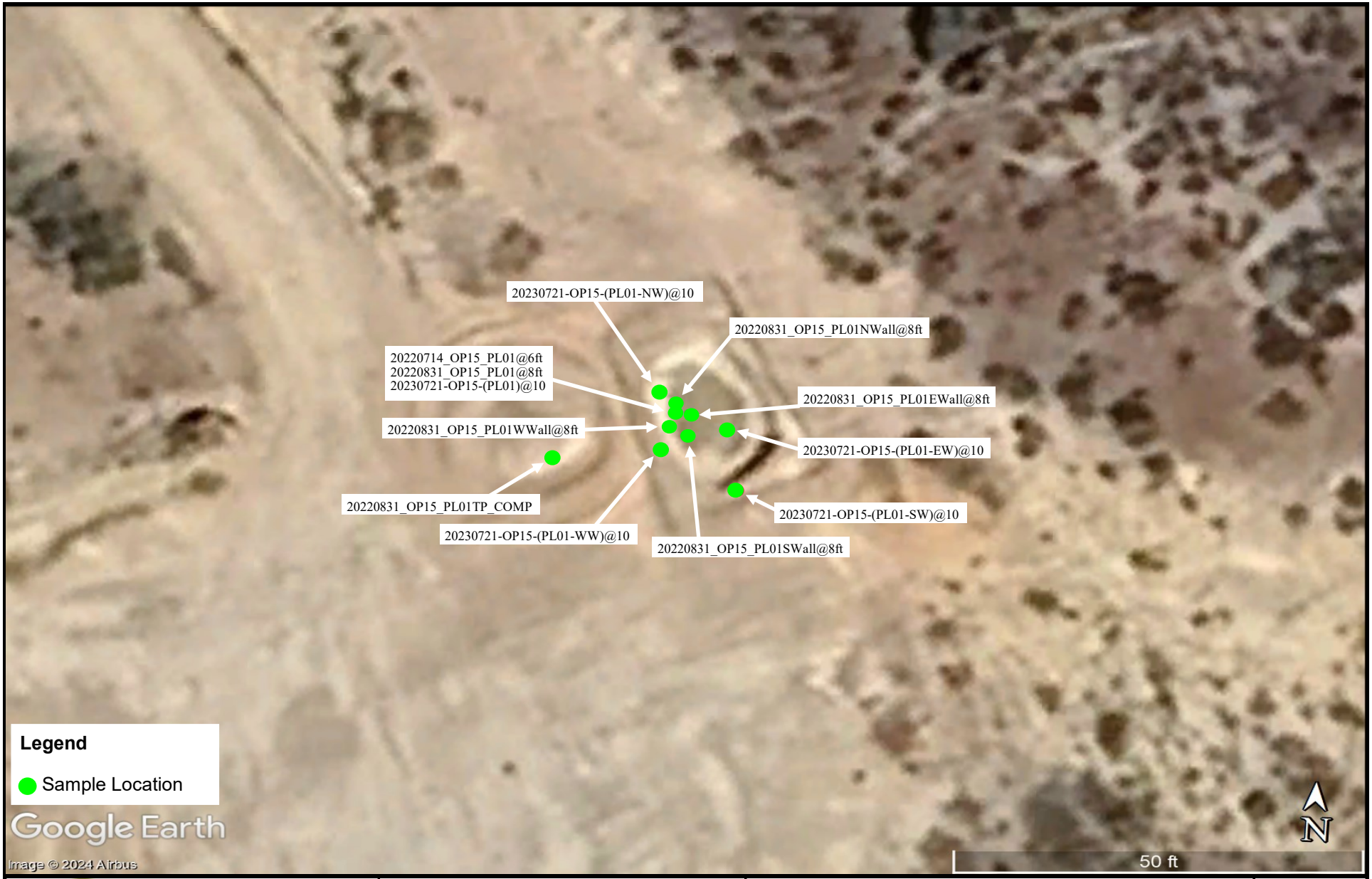
PROJECT NO.	25002443.001A
DRAWN:	6/20/2025
DRAWN BY:	A. Fenske
CHECKED BY:	T. Schmalz
FILE NAME:	OP15_Figure 1.pub

Topographical Map

QB Energy Operating, LLC
Remediation Project Number: 24190
OP15 to G15OU Pipeline
SESE Sec. 15 T8S R96W
Mesa County, Colorado

FIGURE

1



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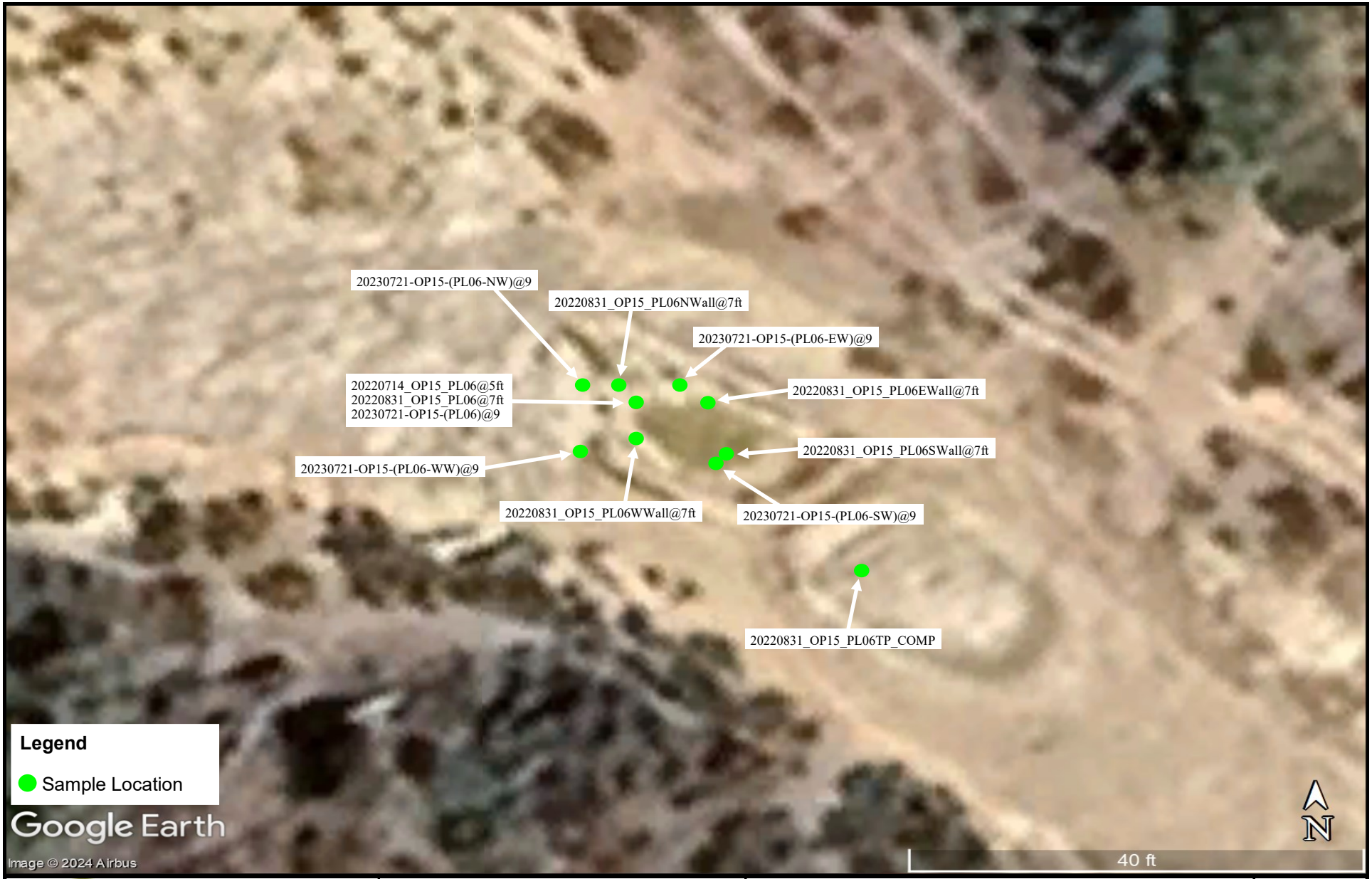
DRAWN BY:	A. Fenske
CHECKED BY:	T. Schmalz
FILE NAME:	OP15 Sample Map.pub

Sample Location Map

QB Energy Operating, LLC
Remediation Project Number: 24190
OP15 to G15OU Pipeline
SESE Sec. 15 T8S R96W
Mesa County, Colorado

FIGURE

2



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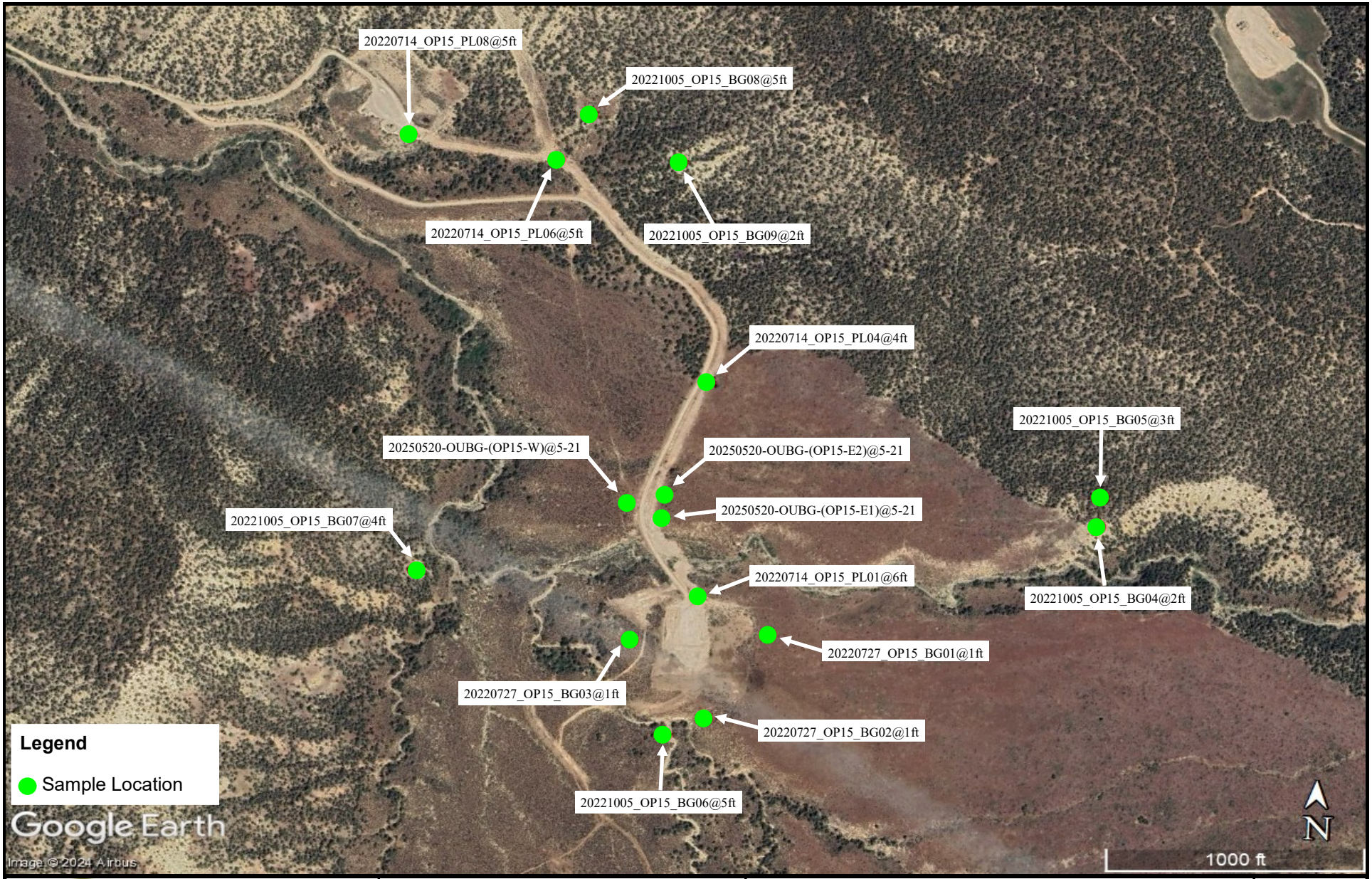
CHECKED BY:	T. Schmalz
FILE NAME:	OP15 Sample Map.pub

Sample Location Map

QB Energy Operating, LLC
Remediation Project Number: 24190
OP15 to G15OU Pipeline
SESE Sec. 15 T8S R96W
Mesa County, Colorado

FIGURE

3



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FILE NAME:	OP15 Sample Map.pub

Sample Location Map

QB Energy Operating, LLC
Remediation Project Number: 24190
OP15 to G15OU Pipeline
SESE Sec. 15 T8S R96W
Mesa County, Colorado

FIGURE

4

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Sample Location Map

QB Energy Operating, LLC
Remediation Project Number: 24190
OP15 to G15OU Pipeline
SESE Sec. 15 T8S R96W
Mesa County, Colorado

FIGURE

5

TABLES

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TABLE 1 - SAMPLE SUMMARY
QB ENERGY OPERATING, LLC
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
SESE SEC. 15 T8S R96W
MESA COUNTY, COLORADO

Sample ID	Sample Objective	Sample Date	Latitude	Longitude	PID Reading (PPM)	Hydrocarbon Odor Detected (Y/N)	Soil Staining Observed (Y/N)	Submitted for Laboratory Analysis (Y/N)	Comments
20220714_OP15_PL01@6ft	Assessment	7/14/2022	39.344977	-108.087083	1.3	N	N	Y	None
20220714_OP15_PL02@10ft	Assessment	7/14/2022	39.345338	-108.087354	< 1	N	N	N	None
20220714_OP15_PL03@10ft	Assessment	7/14/2022	39.345582	-108.087526	< 1	N	N	N	None
20220714_OP15_PL04@4ft	Assessment	7/14/2022	39.347734	-108.087098	< 1	N	N	Y	None
20220714_OP15_PL05@4ft	Assessment	7/14/2022	39.349280	-108.087878	< 1	N	N	N	None
20220714_OP15_PL06@5ft	Assessment	7/14/2022	39.350497	-108.089272	< 1	N	N	Y	None
20220714_OP15_PL07@6ft	Assessment	7/14/2022	39.350589	-108.090160	< 1	N	N	N	None
20220714_OP15_PL08@5ft	Assessment	7/14/2022	39.350709	-108.091159	2.1	N	N	Y	None
20220714_OP15_PL08TP_COMP	Assessment	7/14/2022	39.350766	-108.091301	1.2	N	N	N	None
20220727_OP15_BG01@1ft	Background	7/27/2022	39.344546	-108.086116	< 1	N	N	Y	None
20220727_OP15_BG02@1ft	Background	7/27/2022	39.343460	-108.086936	< 1	N	N	Y	None
20220727_OP15_BG03@1ft	Background	7/27/2022	39.344425	-108.087985	< 1	N	N	Y	None
20220831_OP15_PL01TP_COMP	Assessment	8/31/2022	39.344964	-108.087147	< 1	N	N	Y	None
20220831_OP15_PL06TP_COMP	Assessment	8/31/2022	39.350453	-108.089214	< 1	N	N	Y	None
20220831_OP15_PL01@8ft	Assessment	8/31/2022	39.344977	-108.087083	< 1	N	N	Y	None
20220831_OP15_PL01NWall@8ft	Assessment	8/31/2022	39.344989	-108.087094	< 1	N	N	Y	None
20220831_OP15_PL01EWall@8ft	Assessment	8/31/2022	39.344983	-108.087089	< 1	N	N	Y	None
20220831_OP15_PL01SWall@8ft	Assessment	8/31/2022	39.344975	-108.087089	< 1	N	N	Y	None
20220831_OP15_PL01WWall@8ft	Assessment	8/31/2022	39.344978	-108.087097	< 1	N	N	Y	None
20220831_OP15_PL06@7ft	Assessment	8/31/2022	39.350503	-108.089283	< 1	N	N	Y	None
20220831_OP15_PL06NWall@7ft	Assessment	8/31/2022	39.350508	-108.089289	< 1	N	N	Y	None
20220831_OP15_PL06EWall@7ft	Assessment	8/31/2022	39.350503	-108.089261	< 1	N	N	Y	None
20220831_OP15_PL06SWall@7ft	Assessment	8/31/2022	39.350489	-108.089256	< 1	N	N	Y	None
20220831_OP15_PL06WWall@7ft	Assessment	8/31/2022	39.350492	-108.089283	< 1	N	N	Y	None
20221005_OP15_BG04@2ft	Background	10/5/2022	39.346045	-108.081689	< 1	N	N	Y	None
20221005_OP15_BG05@3ft	Background	10/5/2022	39.346414	-108.081666	< 1	N	N	Y	None
20221005_OP15_BG06@5ft	Background	10/5/2022	39.343238	-108.087478	< 1	N	N	Y	None
20221005_OP15_BG07@4ft	Background	10/5/2022	39.345236	-108.090951	< 1	N	N	Y	None
20221005_OP15_BG08@5ft	Background	10/5/2022	39.351090	-108.088854	< 1	N	N	Y	None
20221005_OP15_BG09@2ft	Background	10/5/2022	39.360514	-108.087599	< 1	N	N	Y	None

TABLE 1 - SAMPLE SUMMARY
QB ENERGY OPERATING, LLC
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
SESE SEC. 15 T8S R96W
MESA COUNTY, COLORADO

Sample ID	Sample Objective	Sample Date	Latitude	Longitude	PID Reading (PPM)	Hydrocarbon Odor Detected (Y/N)	Soil Staining Observed (Y/N)	Submitted for Laboratory Analysis (Y/N)	Comments
20230721-OP15-(PL01)@10	Assessment	7/21/2023	39.344983	-108.087094	< 1	N	N	Y	None
20230721-OP15-(PL01-EW)@10	Assessment	7/21/2023	39.344978	-108.087071	2.1	N	N	Y	None
20230721-OP15-(PL01-SW)@10	Assessment	7/21/2023	39.344954	-108.087068	< 1	N	N	Y	None
20230721-OP15-(PL01-WW)@10	Assessment	7/21/2023	39.344969	-108.087101	< 1	N	N	Y	None
20230721-OP15-(PL01-NW)@10	Assessment	7/21/2023	39.344992	-108.087103	< 1	N	N	Y	None
20230721-OP15-(PL06)@9	Assessment	7/21/2023	39.350503	-108.089283	1.2	N	N	Y	None
20230721-OP15-(PL06-WW)@9	Assessment	7/21/2023	39.350489	-108.089300	1.9	N	N	Y	None
20230721-OP15-(PL06-NW)@9	Assessment	7/21/2023	39.350508	-108.089300	< 1	N	N	Y	None
20230721-OP15-(PL06-EW)@9	Assessment	7/21/2023	39.350508	-108.089269	< 1	N	N	Y	None
20230721-OP15-(PL06-SW)@9	Assessment	7/21/2023	39.350486	-108.089258	< 1	N	N	Y	None
20231212-OUSOURCE-(H16OU-T)@11:00	Produced Fluid	12/12/2023	39.351431	-108.106635	< 1	N	N	Y	None
20250520-OUBG-(OP15-E1)@5-6	Background	5/20/2025	39.34601823	-108.08768114	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E1)@10-11	Background	5/20/2025	39.34601823	-108.08768114	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E1)@15-16	Background	5/20/2025	39.34601823	-108.08768114	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E1)@19-20	Background	5/20/2025	39.34601823	-108.08768114	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E2)@5-6	Background	5/20/2025	39.34617743	-108.08767372	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E2)@10-11	Background	5/20/2025	39.34617743	-108.08767372	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E2)@15-16	Background	5/20/2025	39.34617743	-108.08767372	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E2)@19-20	Background	5/20/2025	39.34617743	-108.08767372	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-E2)@5-6	Background	5/20/2025	39.34617605	-108.08807171	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-W)@10-11	Background	5/20/2025	39.34617605	-108.08807171	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-W)@15-16	Background	5/20/2025	39.34617605	-108.08807171	N/A	N/A	N/A	Y	None
20250520-OUBG-(OP15-W)@19-20	Background	5/20/2025	39.34617605	-108.08807171	N/A	N/A	N/A	Y	None

Notes:
PID = Photo-ionization Detector *PPM = Parts per million*

TABLE 2 - SOIL ANAlYTICAL RESULTS
QB ENERGY OPERATING, LLC
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
SESE SEC. 15 T8S R96W
MESA COUNTY, COLORADO

Sample Objective		Background	Background	Background	Background	Background	Background	Background	Background	Background	Produced Fluid	Background	Background	Background	Background
Location ID		OP15_BG01	OP15_BG02	OP15_BG03	OP15_BG04	OP15_BG05	OP15_BG06	OP15_BG07	OP15_BG08	OP15_BG09	OUSOURCE-(H16OUT)	OUBG-(OP15-W)	OUBG-(OP15-W)	OUBG-(OP15-W)	OUBG-(OP15-W)
Sample Date		7/27/2022	7/27/2022	7/27/2022	10/5/2022	10/5/2022	10/5/2022	10/5/2022	10/5/2022	10/5/2022	12/12/2023	5/20/2025	5/20/2025	5/20/2025	5/20/2025
Sample ID		20220727_OP15_BG01@1ft	20220727_OP15_BG02@1ft	20220727_OP15_BG03@1ft	20221005_OP15_BG04@2ft	20221005_OP15_BG05@3ft	20221005_OP15_BG06@5ft	20221005_OP15_BG07@4ft	20221005_OP15_BG08@2ft	20221005_OP15_BG09@2ft	20231212-OUSOURCE-(H16OUT)@11:00	20250520-OUBG-(OP15-W)@5-6	20250520-OUBG-(OP15-W)@10-11	20250520-OUBG-(OP15-W)@15-16	20250520-OUBG-(OP15-W)@19-20
Sample Depth (ft bgs)		1	1	1	2	3	5	4	2	2	N/A	5-6	10-11	15-16	19-20
Contaminant of Concern	**Cleanup Concentration (mg/kg unless otherwise noted)**														
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TPH Low Fraction GRO (C6-C10)		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DRO (C10-C28)		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MRO (C28-C36)		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Soils and Groundwater - liquid hydrocarbons including condensate and oil	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	NM	NM	NM	NM	NM
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	0.12	0.428	0.764	0.221	0.254	3.460	2.270	0.298	0.339	NM	NM	NM	NM	NM
Sodium adsorption ratio (SAR) (by saturated paste method)	<6 SAR units	0.355	5.15	11.9	6.14	0.749	6.16	0.0437	3.80	3.54	NM	33.8	10.9	10.4	10.6
pH (by saturated paste method)	6–8.3 pH units	7.82 T8	8.59 T8	8.80	8.70 T8	8.12 T8	7.95 T8	7.56 T8	9.43 T8	8.22 T8	7.29 T8	NM	NM	NM	NM
Boron (hot water soluble soil extract)	2 mg/L	0.234	0.206	0.159 J	0.344	ND	0.272	ND	0.257	0.264	NM	NM	NM	NM	NM
Organic Compounds in Soils	**Residential Soil Screening Level Concentrations**														
benzene	1.2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
toluene	490	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
ethylbenzene	5.8	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
xylenes (sum of o-, m- and p- isomers = total xylenes)	58	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM				
1,2,4-trimethylbenzene	30	U	U	U	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,3,5-trimethylbenzene	27	U	U	U	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
acenaphthene	360	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
anthracene	1800	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
benz(a)anthracene	1.1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
benzo(b)fluoranthene	1.1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
benzo(k)fluoranthene	11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
benzo(a)pyrene	0.11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
chrysene	110	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
dibenz(a,h)anthracene	0.11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
fluoranthene	240	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
fluorene	240	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
indeno(1,2,3-cd)pyrene	1.1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
pyrene	180	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1-methylnaphthalene	18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2-methylnaphthalene	24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
naphthalene	2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Metals in Soils	**Residential Soil Screening Level Concentrations**														
arsenic	0.68	5.88	4.42	8.47		7.17	6.41 J3 J6 O1	23.2	5.11	6.95	<0.0100 ND	NM	NM	NM	NM
barium	15000	195	187	202	163 J3 J5	213	178	270	280	284	NM	NM	NM	NM	NM
cadmium	71	0.277 J	0.252 J	0.335 J	ND	ND	ND	ND	ND	ND	NM	NM	NM	NM	NM
chromium (VI)	0.3	U	U	U	ND	ND	ND	1.39	ND	ND J3 J6	NM	NM	NM	NM	NM
copper	3100	24.2	15.5	18.9	12.5	12.3	12.9	13.4	17.3	17.9	NM	NM	NM	NM	NM
lead	400	14.0	10.6	10.7	9.91	12.0	10.9	13.9	11.0	12.0	NM	NM	NM	NM	NM
nickel	1500	24.5	14.3	19.9	13.0 O1	16.1	11.7	5.31	19.5	20.0	NM	NM	NM	NM	NM
selenium	390	U	U	U	ND	ND	ND	ND	ND	ND	NM	NM	NM	NM	NM
silver	390	U	U	U	ND O1	ND	ND	ND	ND	ND	NM	NM	NM	NM	NM
zinc	23000	74.4	61.6	54.3 O1	42.2	37.5	50.5	34.1	46.1	41.6	NM	NM	NM	NM	NM

NOTES:

Greater than Table 915-1 Residential Soil Screening Level (RSSL) Concentrations

Greater than Table 915-1 Standards, but less than adjusted standards (Highest background level is the adjusted standard for inorganics; 1.25X highest background level for metals).

Greater than Table 915-1 Residential Soil Screening Level (RSSL) Concentrations, but less than the produced fluid sample results

TABLE 2 - SOIL ANAlYTICAL RESULTS
QB ENERGY OPERATING, LLC
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
SESE SEC. 15 T8S R96W
MESA COUNTY, COLORADO

	Sample Objective	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment
	Location ID	OUBG-(OP15-E1)	OUBG-(OP15-E1)	OUBG-(OP15-E1)	OUBG-(OP15-E1)	OUBG-(OP15-E2)	OUBG-(OP15-E2)	OUBG-(OP15-E2)	OUBG-(OP15-E2)	OP15_PL04	OP15_PL08
	Sample Date	5/20/2025	5/20/2025	5/20/2025	5/20/2025	5/20/2025	5/20/2025	5/20/2025	5/20/2025	7/14/2022	7/14/2022
	Sample ID	20250520-OUBG-(OP15-E1)@5-6	20250520-OUBG-(OP15-E1)@10-11	20250520-OUBG-(OP15-E1)@15-16	20250520-OUBG-(OP15-E1)@19-20	20250520-OUBG-(OP15-E2)@5-6	20250520-OUBG-(OP15-E2)@10-11	20250520-OUBG-(OP15-E2)@15-16	20250520-OUBG-(OP15-E2)@19-20	20220714_OP15_PL04@4ft	20220714_OP15_PL08@5ft
	Sample Depth (ft bgs)	5-6	10-11	15-16	19-20	5-6	10-11	15-16	19-20	4	5
Contaminant of Concern	**Cleanup Concentration (mg/kg unless otherwise noted)**										
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500	NM	NM	NM	NM	NM	NM	NM	NM	76.9956 J	17.9562 J
TPH Low Fraction GRO (C6-C10)		NM	NM	NM	NM	NM	NM	NM	NM	0.0956 J	0.0862 J
DRO (C10-C28)		NM	NM	NM	NM	NM	NM	NM	NM	24.9	6.27
MRO (C28-C36)		NM	NM	NM	NM	NM	NM	NM	NM	52.0	11.6
Soils and Groundwater - liquid hydrocarbons including condensate and oil	Below Visual Detection Limits	NM	NM	NM	NM	NM	NM	NM	NM	Below Visual Detection Limits	Below Visual Detection Limits
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	NM	NM	NM	NM	NM	NM	NM	NM	2.010	0.780
Sodium adsorption ratio (SAR) (by saturated paste method)	<6 SAR units	23.2	8.28	8.19	7.20	34.2	7.91	5.61	6.19	3.98	1.05
pH (by saturated paste method)	6–8.3 pH units	NM	NM	NM	NM	NM	NM	NM	NM	8.12 T8	8.16 T8
Boron (hot water soluble soil extract)	2 mg/L	NM	NM	NM	NM	NM	NM	NM	NM	0.542	1.23
Organic Compounds in Soils	**Residential Soil Screening Level Concentrations**										
benzene	1.2	NM	NM	NM	NM	NM	NM	NM	NM	U	0.00168
toluene	490	NM	NM	NM	NM	NM	NM	NM	NM	0.00638	0.00913
ethylbenzene	5.8	NM	NM	NM	NM	NM	NM	NM	NM	U	U
xylenes (sum of o-, m- and p- isomers = total xylenes)	58									U	0.00160 J
1,2,4-trimethylbenzene	30	NM	NM	NM	NM	NM	NM	NM	NM	U	U
1,3,5-trimethylbenzene	27	NM	NM	NM	NM	NM	NM	NM	NM	U	U
acenaphthene	360	NM	NM	NM	NM	NM	NM	NM	NM	U	U
anthracene	1800	NM	NM	NM	NM	NM	NM	NM	NM	U	U
benz(a)anthracene	1.1	NM	NM	NM	NM	NM	NM	NM	NM	U	U
benzo(b)fluoranthene	1.1	NM	NM	NM	NM	NM	NM	NM	NM	U	U
benzo(k)fluoranthene	11	NM	NM	NM	NM	NM	NM	NM	NM	U	U
benzo(a)pyrene	0.11	NM	NM	NM	NM	NM	NM	NM	NM	U	U
chrysene	110	NM	NM	NM	NM	NM	NM	NM	NM	U	U
dibenz(a,h)anthracene	0.11	NM	NM	NM	NM	NM	NM	NM	NM	U	U
fluoranthene	240	NM	NM	NM	NM	NM	NM	NM	NM	U	U
fluorene	240	NM	NM	NM	NM	NM	NM	NM	NM	U	U
indeno(1,2,3-cd)pyrene	1.1	NM	NM	NM	NM	NM	NM	NM	NM	U	U
pyrene	180	NM	NM	NM	NM	NM	NM	NM	NM	U	U
1-methylnaphthalene	18	NM	NM	NM	NM	NM	NM	NM	NM	U	U
2-methylnaphthalene	24	NM	NM	NM	NM	NM	NM	NM	NM	U	U
naphthalene	2	NM	NM	NM	NM	NM	NM	NM	NM	U	U
Metals in Soils	**Residential Soil Screening Level Concentrations**										
arsenic	0.68	NM	NM	NM	NM	NM	NM	NM	NM	10.5	10.6
barium	15000	NM	NM	NM	NM	NM	NM	NM	NM	267	228
cadmium	71	NM	NM	NM	NM	NM	NM	NM	NM	0.159 J	U
chromium (VI)	0.3	NM	NM	NM	NM	NM	NM	NM	NM	U	U
copper	3100	NM	NM	NM	NM	NM	NM	NM	NM	19.0	18.7
lead	400	NM	NM	NM	NM	NM	NM	NM	NM	12.2	9.60
nickel	1500	NM	NM	NM	NM	NM	NM	NM	NM	20.0	32.0
selenium	390	NM	NM	NM	NM	NM	NM	NM	NM	U	U
silver	390	NM	NM	NM	NM	NM	NM	NM	NM	U	U
zinc	23000	NM	NM	NM	NM	NM	NM	NM	NM	50.3	45.6

NOTES:

Greater than Table 915-1 Residential S
Greater than Table 915-1 Standards, b
Greater than Table 915-1 Residential S

TABLE 2 - SOIL ANAlYTICAL RESULTS
QB ENERGY OPERATING, LLC
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
SESE SEC. 15 T8S R96W
MESA COUNTY, COLORADO

Sample Objective		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Location ID		OP15_PL01	OP15_PL01TP	OP15_PL01NWALL	OP15_PL01EWALL	OP15_PLO1SWALL	OP15_PL01WWALL	OP15_PL01	OP15-(PL01-EW)	OP15-(PL01-SW)	OP15-(PL01-WW)	OP15-(PL01-NW)	OP15-(PL01)
Sample Date		7/14/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022	7/21/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
Sample ID		20220714_OP15_PL01@6ft	20220831_OP15_PL01TP_COMP	20220831_OP15_PL01NWALL@8ft	20220831_OP15_PL01EWALL@8ft	20220831_OP15_PL01SWALL@8ft	20220831_OP15_PL01WWALL@8ft	20220831_OP15_PL01@8ft	20230721-OP15-(PL01-EW)@10	20230721-OP15-(PL01-SW)@10	20230721-OP15-(PL01-WW)@10	20230721-OP15-(PL01-NW)@10	20230721-OP15-(PL01)@10
Sample Depth (ft bgs)		6	GS	8	8	8	8	8	10	10	10	10	10
Contaminant of Concern	**Cleanup Concentration (mg/kg unless otherwise noted)**												
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500	23.516	38.507 B	14.611	28.960	19.108	36.725	17.824	13.656 B J	59.916 B J6	28.1076 B J	17.3868 B J	0.877 B J
TPH Low Fraction GRO (C6-C10)		0.146	0.137 B	0.111	0.190	0.108	0.125	0.124	0.116 B	0.116 B	0.0876 B J	0.0868 B J	0.115 B
DRO (C10-C28)		4.87	30.4	ND	4.97	4.30	8.90	ND	2.64 J	10.4 J6	6.92	2.90 J	<0.161 U
MRO (C28-C36)		18.5	7.97	14.5	23.8	14.7	27.7	17.7	10.9	49.4	21.1	14.40	0.762 J
Soils and Groundwater - liquid hydrocarbons including condensate and oil	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	7.060	2.310	3.920	9.630	6.850	6.190	7.060	0.992	3.700	1.020	0.308	0.457
Sodium adsorption ratio (SAR) (by saturated paste method)	<6 SAR units	17.0	14.0	10.8	31.1	19.7	18.5	19.4	2.86	19.9	3.44	1.97	3.71
pH (by saturated paste method)	6–8.3 pH units	7.95	8.12 T8	8.03 T8	8.23 T8	8.08 T8	8.07 T8	8.14 T8	8.28 T8	8.38 T8	8.32 T8	8.72 T8	8.44 T8
Boron (hot water soluble soil extract)	2 mg/L	1.38	1.08	0.951	1.73	1.32	1.27	1.15	1.13	1.77	0.843	0.819	0.872
Organic Compounds in Soils	**Residential Soil Screening Level Concentrations**												
benzene	1.2	U	ND	ND	ND	ND	ND	ND	<0.000467 U	<0.000467 U	<0.000467 U	<0.000467 U	<0.000467 U
toluene	490	0.00643	ND	ND	ND	ND	ND	ND	<0.00130 U	<0.00130 U	<0.00130 U	<0.00130 U	<0.00130 U
ethylbenzene	5.8	U	ND	ND	ND	ND	ND	ND	<0.000737 U	<0.000737 U	<0.000737 U	<0.000737 U	<0.000737 U
xylenes (sum of o-, m- and p- isomers = total xylenes)	58	U	ND	ND	ND	ND	ND	ND	<0.000880 U	<0.000880 U	<0.000880 U	<0.000880 U	<0.000880 U
1,2,4-trimethylbenzene	30	U	ND	ND	ND	ND	ND	ND	<0.00158 U	<0.00158 U	<0.00158 U	<0.00158 U	<0.00158 U
1,3,5-trimethylbenzene	27	U	ND	ND	ND	ND	ND	ND	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U
acenaphthene	360	U	ND	ND	ND	ND	ND	ND	<0.00209 U	<0.00209 U	<0.00209 U	<0.00209 U	<0.00209 U
anthracene	1800	U	ND	ND	ND	ND	ND	ND	<0.00230 U	<0.00230 U	<0.00230 U	<0.00230 U	<0.00230 U
benz(a)anthracene	1.1	U	ND	ND	ND	ND	ND	ND	<0.00173 U	<0.00173 U	<0.00173 U	<0.00173 U	<0.00173 U
benzo(b)fluoranthene	1.1	U	ND	ND	ND	ND	ND	ND	<0.00153 U	<0.00153 U	<0.00153 U	<0.00153 U	<0.00153 U
benzo(k)fluoranthene	11	U	ND	ND	ND	ND	ND	ND	<0.00215 U	<0.00215 U	<0.00215 U	<0.00215 U	<0.00215 U
benzo(a)pyrene	0.11	U	ND	ND	ND	ND	ND	ND	<0.00179 U	<0.00179 U	<0.00179 U	<0.00179 U	<0.00179 U
chrysene	110	U	ND	ND	ND	ND	ND	ND	<0.00232 U	<0.00232 U	<0.00232 U	<0.00232 U	<0.00232 U
dibenz(a,h)anthracene	0.11	U	ND	ND	ND	ND	ND	ND	<0.00172 U	<0.00172 U	<0.00172 U	<0.00172 U	<0.00172 U
fluoranthene	240	U	ND	ND	ND	ND	ND	ND	<0.00227 U	<0.00227 U	<0.00227 U	<0.00227 U	<0.00227 U
fluorene	240	U	ND	ND	ND	ND	ND	ND	<0.00205 U	<0.00205 U	<0.00205 U	<0.00205 U	<0.00205 U
indeno(1,2,3-cd)pyrene	1.1	U	ND	ND	ND	ND	ND	ND	<0.00181 U	<0.00181 U	<0.00181 U	<0.00181 U	<0.00181 U
pyrene	180	U	ND	ND	ND	ND	ND	ND	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U
1-methylnaphthalene	18	U	ND	ND	ND	ND	ND	ND	<0.00449 U	<0.00449 U	<0.00449 U	<0.00449 U	<0.00449 U
2-methylnaphthalene	24	U	ND	ND	ND	ND	ND	ND	<0.00427 U	<0.00427 U	<0.00427 U	<0.00427 U	<0.00427 U
naphthalene	2	U	ND	ND	ND	ND	ND	ND	<0.00408 U	<0.00408 U	<0.00408 U	<0.00408 U	<0.00408 U
Metals in Soils	**Residential Soil Screening Level Concentrations**												
arsenic	0.68	9.92	4.44	7.12	9.87	8.58	7.97	4.87	8.26	5.66	7.14	10.0	2.96
barium	15000	228	160 J5	218	230	205	210	178	237	193	213	244	166
cadmium	71	0.106 J	ND	ND	ND	ND	ND	ND	0.276 J	0.263 J	0.298 J	0.371 J	0.240 J
chromium (VI)	0.3	U	ND	ND	ND	ND	ND	ND	<0.255 U	<0.255 U	<0.255 U	<0.255 U	<0.255 U
copper	3100	20.1	11.8	15.0	18.0	16.0	12.7	11.5	18.0	12.1	14.0	17.3	11.9
lead	400	11.2	8.53	11.40	12.60	11.60	10.90	8.43	9.43	8.14	9.73	11.5	7.58
nickel	1500	24.4	12.4	16.9	17.4	15.9	12.9	12.9	20.0	12.2	13.3	16.6	9.87
selenium	390	1.17 J	ND	ND	ND	ND	ND	ND	0.422 J	0.424 J	0.427 J	0.505 J	0.340 J
silver	390	U	ND	ND	ND	ND	ND	ND	<0.0865 U	<0.0865 U	<0.0865 U	<0.0865 U	<0.0865 U
zinc	23000	56.7	35.4	50.3	49.2	46.3	40.5	38.3	47.4	41.0	43.2	55.3	34.1

NOTES:

Greater than Table 915-1 Residential S
Greater than Table 915-1 Standards, bi
Greater than Table 915-1 Residential S

TABLE 2 - SOIL ANAlYTICAL RESULTS
QB ENERGY OPERATING, LLC
REMEDIATION PROJECT NUMBER: 24190
OP15 TO G15OU PIPELINE
SESE SEC. 15 T8S R96W
MESA COUNTY, COLORADO

Sample Objective		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Location ID		OP15_PL06	OP15_PL06N	OP15_PL06EW	OP15_PL06SWALL	OP15_PL06WWALL	OP15_PL06	OP15_PL06TP	OP15-(PL06-NW)	OP15-(PL06-EW)	OP15-(PL06-SW)	OP15-(PL06-WW)	OP15-(PL06)
Sample Date		7/14/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022	7/21/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
Sample ID		20220714_OP15_PL06@5ft	20220831_OP15_PL06NWALL@7ft	20220831_OP15_PL06EWALL@7ft	20220831_OP15_PL06SWALL@7ft	20220831_OP15_PL06WWALL@7ft	20220831_OP15_PL06@7ft	20220831_OP15_PL06TP_COMP	20230721-OP15-(PL06-NW)@9	20230721-OP15-(PL06-EW)@9	20230721-OP15-(PL06-SW)@9	20230721-OP15-(PL06-WW)@9	20230721-OP15-(PL06)@9
Sample Depth (ft bgs)		5	7	7	7	7	7	GS	9	9	9	9	9
Contaminant of Concern	**Cleanup Concentration (mg/kg unless otherwise noted)**												
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500	23.9956 J	30.800	18.266	31.130	15.230	6.920	19.090	9.5239 B J	2.238 B J	1.1612 B J	35.4205 B J	18.3011 B J
TPH Low Fraction GRO (C6-C10)		0.0656 J	0.120	0.126	0.110	ND	ND	ND	0.0939 B J	0.118 B	0.0612 B J	0.0805 B J	0.0711 B J
DRO (C10-C28)		8.23	8.48	6.64	8.12	4.13	ND	5.19	2.20 J	<0.161 U	<0.161 U	9.84	3.63
MRO (C28-C36)		15.7	22.2	11.5	22.9	11.1	6.92	13.9	7.23	2.12 J	1.10 J	25.5	14.6
Soils and Groundwater - liquid hydrocarbons including condensate and oil	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	2.050	1.280	4.810	ND	3.740	4.030	4.060	1.050	1.910	0.960	1.270	0.835
Sodium adsorption ratio (SAR) (by saturated paste method)	<6 SAR units	28.3	14.2	33.0	26.5	38.8	42.3	32.2	4.87	6.39	4.64	4.66	6.55
pH (by saturated paste method)	6–8.3 pH units	9.08 T8	8.52 T8	8.77 T8	8.60 T8	8.76 T8	8.05 T8	8.87 T8	9.52 T8	9.50 T8	9.67 T8	9.03 T8	9.80 T8
Boron (hot water soluble soil extract)	2 mg/L	0.667	1.36	1.69	1.35	1.42	1.61	1.53	1.01	1.11	1.00	1.08	0.635
Organic Compounds in Soils	**Residential Soil Screening Level Concentrations**												
benzene	1.2	U	ND	ND	ND	ND	ND	ND	<0.000467 U	<0.000467 U J3	<0.000467 U	<0.000467 U	<0.000467 U
toluene	490	0.00656	ND	ND	ND	ND	ND	ND	<0.00130 U	<0.00130 U J3	<0.00130 U	<0.00130 U	<0.00130 U
ethylbenzene	5.8	U	ND	ND	ND	ND	ND	ND	<0.000737 U	<0.000737 U J3	<0.000737 U	<0.000737 U	<0.000737 U
xylenes (sum of o-, m- and p- isomers = total xylenes)	58	U	ND	ND	ND	ND	ND	ND	<0.000880 U	<0.000880 U J3	<0.000880 U	<0.000880 U	0.000950 J
1,2,4-trimethylbenzene	30	U	ND	ND	ND	ND	ND	ND	<0.00158 U	<0.00158 U J3	<0.00158 U	<0.00158 U	<0.00158 U
1,3,5-trimethylbenzene	27	U	ND	ND	ND	ND	ND	ND	<0.00200 U	<0.00200 U J3	<0.00200 U	<0.00200 U	<0.00200 U
acenaphthene	360	U	ND	ND	ND	ND	ND	ND	<0.00209 U	<0.00209 U	<0.00209 U	<0.00209 U	<0.00209 U
anthracene	1800	U	ND	ND	ND	ND	ND	ND	<0.00230 U	<0.00230 U	<0.00230 U	<0.00230 U	<0.00230 U
benz(a)anthracene	1.1	U	ND	ND	ND	ND	ND	ND	<0.00173 U	<0.00173 U	<0.00173 U	<0.00173 U	<0.00173 U
benzo(b)fluoranthene	1.1	U	ND	ND	ND	ND	ND	ND	<0.00153 U	<0.00153 U	<0.00153 U	<0.00153 U	<0.00153 U
benzo(k)fluoranthene	11	U	ND	ND	ND	ND	ND	ND	<0.00215 U	<0.00215 U	<0.00215 U	<0.00215 U	<0.00215 U
benzo(a)pyrene	0.11	U	ND	ND	ND	ND	ND	ND	<0.00179 U	<0.00179 U	<0.00179 U	<0.00179 U	<0.00179 U
chrysene	110	U	ND	ND	ND	ND	ND	ND	<0.00232 U	<0.00232 U	<0.00232 U	<0.00232 U	<0.00232 U
dibenz(a,h)anthracene	0.11	U	ND	ND	ND	ND	ND	ND	<0.00172 U	<0.00172 U	<0.00172 U	<0.00172 U	<0.00172 U
fluoranthene	240	U	ND	ND	ND	ND	ND	ND	<0.00227 U	<0.00227 U	<0.00227 U	<0.00227 U	<0.00227 U
fluorene	240	U	ND	ND	ND	ND	ND	ND	<0.00205 U	<0.00205 U	<0.00205 U	<0.00205 U	<0.00205 U
indeno(1,2,3-cd)pyrene	1.1	U	ND	ND	ND	ND	ND	ND	<0.00181 U	<0.00181 U	<0.00181 U	<0.00181 U	<0.00181 U
pyrene	180	U	ND	ND	ND	ND	ND	ND	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U	<0.00200 U
1-methylnaphthalene	18	U	ND	ND	ND	ND	ND	ND	<0.00449 U	<0.00449 U	<0.00449 U	<0.00449 U	<0.00449 U
2-methylnaphthalene	24	U	ND	ND	ND	ND	ND	ND	<0.00427 U	<0.00427 U	<0.00427 U	<0.00427 U	<0.00427 U
naphthalene	2	U	ND	ND	ND	ND	ND	ND	<0.00408 U	<0.00408 U	<0.00408 U	<0.00408 U	<0.00408 U
Metals in Soils	**Residential Soil Screening Level Concentrations**												
arsenic	0.68	14.7	9.61	9.63	12.8	12.0	8.62	11.4	11.1	9.77	7.20	11.2	9.14
barium	15000	316	237	204	233	220	181	213	232	210	172	319	210
cadmium	71	0.0985 J	ND	ND	ND	ND	ND	ND	0.235 J	0.195 J	0.198 J	0.272 J	0.257 J
chromium (VI)	0.3	U	ND	ND	ND	ND	ND	ND	<0.255 U	<0.255 U	<0.255 U	<0.255 U	<0.255 U
copper	3100	16.2	15.2	16.0	15.7	15.6	16.9	15.5	16.4	14.1	11.2	14.1	12.4
lead	400	11.4	9.02	9.83	11.3	9.28	9.28	9.30	10.4	8.70	8.16	9.82	8.50
nickel	1500	21.8	19.2	21.7	23.2	23.3	31.8	21.2	26.8	17.8	14.5	18.1	23.2
selenium	390	U	ND	ND	ND	ND	ND	ND	1.11 J	0.660 J	0.273 J	0.512 J	0.483 J
silver	390	U	ND	ND	ND	ND	ND	ND	<0.0865 U	<0.0865 U	<0.0865 U	<0.0865 U	<0.0865 J
zinc	23000	43.5	37.4	37.0	36.4	35.9	36.3	37.5	39.8	37.8	33.0	39.1	34.7

NOTES:

Greater than Table 915-1 Residential S
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APPENDIX A

SODIUM ADSORPTION RATIO STATISTICAL ANALYSIS

KLEINFELDER 707 17th Street, Suite 3000, Denver, CO 80202 p | 303.237.6601 f | 303.237.6602

Descriptive Data

	Background (5-6 feet bgs)	Site-Assessment (5-7 feet bgs)
Count	4	8
Sum	97.36	201.15
Mean (Average)	24.34	25.14375
Median	28.5	27.4
Mode	-	-
Largest	34.2	42.3
Smallest	6.16	1.05
Range	28.04	41.25
Geometric Mean	20.16057321	17.84763244
Standard Deviation	11.38555225	12.84984041
Variance	129.6308	165.1183984
Sample Standard Deviation	13.14690331	13.73705722
Sample Variance	172.8410667	188.7067411

Inferential Data

	Background (5-6 feet bgs)	Site-Assessment (5-7 feet bgs)
First Quartile	18.94	16.3
Third Quartile	33.9	34.45
Interquartile Range	14.96	18.15
Lower Outlier Limit (LOL)	-3.5	-10.925
Upper Outlier Limit (UOL)	56.34	61.675
Z-Score	-0.466153<Z<5.4433054	-0.466153<Z<5.4433054
Area (Probability)	1	1
Significant Outliers from Dataset	11.026 and above (7 outliers)	11.026 and above (7 outliers)