

CR42 and CR13 Location
Form 27 Interim Summary Report and Workplan
Spill/Release #463819
Remediation #13272

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1. Introduction

Tasman Geosciences (Tasman), on behalf of DCP Operating Company, LP (DCP) is providing this Form 27 Interim Summary Report and Workplan (Report) to summarize investigation and remediation activities for a raw natural gas materials/condensate liquid pipeline release that occurred near the intersection of County Road 42 (CR42) and County Road 13 (CR13) (Site [Figure 1]) with associated Colorado Oil and Gas Conservation Commission (COGCC) Spill Release ID number 463819.

2. Site Background

On April 2, 2019, a release of raw natural gas materials/condensate liquid from a DCP gas gathering pipeline was identified at the northwest corner of the intersection of CR42 and CR13. DCP submitted an Initial Form 19 Spill Release Document #401997249 on April 4, 2019, a Supplement Form 19 Document #402004043 on April 12, 2019, and a subsequent Form 19 Supplemental Document #402049891 on May 21, 2019 to the COGCC. To date, DCP has not submitted a Form 19 Supplemental closure request for the associated Spill Release Number for the Site as investigation activities to ascertain the cause of the line leak are ongoing.

On April 16, 2019, an Initial Form 27 Remediation Work Plan Document #402004215 was submitted to the COGCC detailing sub-slab soil vapor, exterior soil vapor, and indoor ambient air sampling plans for the private residential structure located at 20008 Colorado Boulevard (CR13), Johnstown, CO, which is located to the east of the release point. Upon approval of the Form 27 Work Plan, the COGCC issued Remediation Number 13272 for the Site. On May 30, 2019, subsequent to the planned investigation activities performed at the private residential structure as described in the Initial Form 27 document, a Form 27 Supplemental Document #402051228 was submitted to the COGCC detailing results specifically related to the sub-slab soil vapor, exterior soil vapor, and indoor ambient air sampling activities.

In addition to the private residential structure soil vapor and indoor air investigation activities, DCP has performed ongoing subsurface investigations at the Site to ascertain the pipeline release location, cause of the line leak, characterize and delineate soil and groundwater impacts resulting from the raw natural gas materials/condensate liquid release, and evaluate potential remediation alternatives for the Site. While efforts have been made to delineate petroleum hydrocarbon impacts to soil and groundwater on the west side of CR13, the majority of investigation activities conducted to date and the associated data presented herein pertain to the area surrounding the private residential structure. The investigation activities and collected data from the west side of CR13 are also presented in this Report, however, additional characterization and delineation activities are required.

3. Subsurface Soil Characterization and Delineation Activities

Between April 4, 2019 and May 23, 2019, DCP performed subsurface soil characterization and delineation activities at the Site using multiple methods including mechanical excavation and geologic drilling and soil boring using hand augur, direct push, and hollow stem augur (HSA) with continuous core sampling methods. The Sub-Sections below detail the results of the subsurface soil investigation characterization and delineation activities.

3.1 Mechanical Excavation

Between April 4 and 5, 2019, subsurface soil mechanical excavation activities were performed in proximity to the DCP flowline where the release occurred. Approximately 510 cubic yards of impacted soil was removed from the Site and transported under waste manifest procedures to the North Weld County Waste Management Landfill in Ault, CO. Excavation activities were guided using a handheld photoionization detector (PID) and field screened for physical characteristics and volatile organic compounds (VOC) with standard headspace sampling methods. Excavation activities were initiated north of the suspected release point and progressed south towards the intersection of CR42 and CR13. During excavation activities, soil samples were collected from the extents of the excavation at the locations and depths displayed on Figure 2 and submitted to Origins Laboratory, Inc. (Origins) in Denver, CO for analysis of benzene, toluene, ethylbenzene, total xylenes, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) using United States Environmental Protection Agency (USEPA) Method 8260B and TPH diesel range organics (DRO) using USEPA Method 8015.

Based on the soil sample analytical results, the northern extents of the excavation in proximity to the DCP gathering pipeline were encountered. On April 4, 2019, one soil sample collected from the base of the excavation (SS24@10') was returned above the COGCC Table 910-1 standard for benzene with a detected concentration of 0.282 micrograms per liter ($\mu\text{g/L}$). Therefore, on April 5, 2019 over excavation was performed in that area and a supplemental soil sample (SS24B@11') was collected to verify that impacted soils had been removed. Excavation activities were advanced south towards CR42, and soil samples were collected at the locations displayed on Figure 2. During excavation activities to the south of soil sample locations SS33 through SS35 and based on physical characteristics and collected PID readings, apparent impacted soils were encountered throughout the excavation extents. Therefore, soil samples were not collected for laboratory analysis as remediation activities are anticipated to be required throughout that area. On April 5, 2019, two soil samples (SS36@8' and SS37@7') were collected from the sidewalls of the excavation adjacent to the suspected release point to determine soil concentrations in the anticipated source area. The laboratory analytical results, observed PID readings, and vertical depths for the soil samples collected from the pipeline excavation extents are summarized on Table 1 and the laboratory analytical reports are included in Appendix A.

3.2 Soil Boring and Drilling

Between April 6, 2019 and May 28, 2019, DCP advanced 39 soil borings at the Site for soil characterization and delineation beyond the initial excavation extents. Soil borings were advanced using multiple methods including hand augur, direct push drilling with continuous core sampling, and HSA with split spoon continuous core sampling. During soil boring activities at each location, recovered soil cores were field screened with a PID and observed for physical characteristics. The locations of the soil borings including associated installation methods are illustrated on Figure 3.

Soil lithology at the Site generally consists of the following: Some organic topsoil; clays, silts and fine sands (mostly in the form of sandy silt, silty clay and clayey silts) with sub-horizontal fractures; silty sand and fine sand; and, compact unconsolidated fine and silty sands. Moisture was observed at varying depths and thickness within the subsurface but saturated soils were not encountered. Additionally, a 'hardpan' layer

of up to 3-inches thick consisting of siltstone/claystone or mudstone was observed at multiple locations and varying depths. Refusal was encountered during drilling activities at locations where hand augur or direct push methods were utilized and at one HSA location (BH18/MW06). The lithologic soil boring and well construction logs are provided in Appendix B and interpreted lithologic cross-sections of the Site are included in Appendix C.

Soil samples were collected at each soil boring location from intervals with the highest observed PID reading, from the terminal depth of the bore hole and, where applicable, from zones interpreted to be a possible capillary fringe above potential water bearing zones. However, during investigation activities slightly moist/wet soil was observed at varying depths throughout the area but a defined saturated water bearing zone was not encountered at any location. At soil bore locations where the highest PID reading was observed at the terminal depth and drilling activities (either hand augur or direct push methods) reached refusal due to soil lithology, only one soil sample was collected from the location. Soil samples were submitted to Origins for laboratory analysis of BTEX and TPH-GRO using USEPA Method 8260B and TPH-DRO using USEPA Method 8015. Additionally, at the request of the landowner for the private residential structure located east of CR13 adjacent to the release point, soil samples collected from borings MW13, MW14, and MW15 were submitted for full suite VOC analysis by USEPA Method 8260B. The soil sample analytical data are summarized on Table 2 and the laboratory analytical reports are included in Appendix D. However, Table 2 summarizes only those constituents regulated by the COGCC Table 910-1 including BTEX and TPH-GRO/DRO.

As described above, slightly moist/wet intervals were observed within the soil bores at varying depths and locations. However, the moist zones observed were relatively thin, were underlain by dry soil, and initially, were not anticipated to produce groundwater. Therefore, prior to the BH13/MW01 location, groundwater monitoring wells were not constructed within the soil bores. On April 22, 2019 subsequent to completing drilling and sampling with HSA equipment at the BH12 soil bore location near the private residential structure (Figure 3), hydrocarbon condensate material was observed within soil cuttings and on the augur flights while being retrieved from the borehole. Due to sealing the borehole with hydrated bentonite as the augur flights were being retrieved from the borehole, a monitoring well was unable to be constructed at that location. Following the observed mobilized condensate material at that location, groundwater monitoring wells and temporary piezometers were constructed within multiple subsequent soil bores, where possible. Further discussions regarding groundwater monitoring well and temporary piezometer installation and construction, and groundwater observations and hydraulic characteristics are provided in the Sections below.

4. Groundwater and LNAPL Delineation and Monitoring

This Section describes the field activities performed for groundwater monitoring well and temporary piezometer installations, groundwater quality monitoring and measuring hydraulic characteristics, monitoring for the presence of light-non aqueous phase liquid (LNAPL) and observing LNAPL recovery rates at the Site.

4.1 Monitoring Well and Piezometer Installation and Development

Between April 22, 2019 and May 23, 2019, DCP installed 15 groundwater monitoring wells located on the east side of CR13 and 5 temporary piezometers located on the west side of CR13 and north of CR42 (locations displayed on Figure 3) to monitor groundwater characteristics beneath the Site. Groundwater monitoring wells MW01 through MW06 and MW08 through MW15 were installed using HSA drilling methods with split spoon continuous core sampling. Monitoring well construction details are provided in the lithologic soil boring and well construction logs in Appendix B. Due to surface soil consistency and being unable to utilize the HSA drilling equipment for well installation, 5 temporary piezometers, which were constructed in soil borings BH17, BH19, BH20, BH21, and BH23 and one groundwater monitoring well (BH25/MW07) were installed using direct push drilling methods with continuous core sampling. During direct push drilling, refusal was encountered at each location at the depths indicated on the lithologic soil boring and well construction logs in Appendix B. Additionally, refusal was encountered at one HSA drilling location identified as BH18/MW06.

Sometime between May 12 and May 16, 2019, workers for the farm located to the north west of the CR42 and CR13 intersection where the 5 temporary piezometers were located, removed the piezometer well casings from the ground for unknown reasons. To date, the piezometers or replacement groundwater monitoring wells have not been installed on that land. Additional information regarding supplemental investigation activities in this area are provided in Section 6.

On May 28 and 29, 2019, Tasman on behalf of DCP performed monitoring well development activities at the 15 groundwater monitoring wells (MW01 through MW15) using a combination surge and purge method with a Waterra Inertial Pump, foot valve, and surge blocks. With the exception of MW06 which has been observed dry since installation, approximately 10 well column purge volumes (calculated from total depth of the well and groundwater or LNAPL level measurements) were removed from each well location using the Waterra Inertial Pump while surging the well. Subsequent to well development, purge water was transported to the DCP Spindle Gas Plant in Weld County, CO for storage and disposal.

4.2 Groundwater and LNAPL Elevation Monitoring

Between April 23, 2019 and May 28, 2019, multiple groundwater gauging events to monitor groundwater elevations and the presence of LNAPL were performed at the Site. Monitoring wells and piezometers were gauged on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP) and measured groundwater levels were subsequently converted to elevations (feet above mean sea level [AMSL]).

Between April 23, 2019 and May 11, 2019, and prior to being removed, LNAPL was observed within the temporary piezometer located at BH20 with thicknesses ranging between 3.26 feet and 3.06 feet. LNAPL was also observed with thicknesses ranging between 4.19 feet and 0.61 feet at monitoring well MW02 and 4.42 feet and 0.33 feet at monitoring well MW08. The remaining groundwater monitoring wells and temporary piezometers did not contain measurable amounts of LNAPL or were observed to be dry.

Groundwater levels, LNAPL thicknesses, total depths, and associated groundwater elevations are presented in Table 3. A groundwater elevation contour map using data collected on May 28, 2019,

included as Figure 4, indicates that groundwater flow at the Site is generally to the north. Groundwater elevation ranges and the calculated hydraulic gradient at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	May 28, 2019
Maximum Elevation (Well ID)	4,981.79 feet (MW07)
Minimum Elevation (Well ID)	4,977.86 feet (MW09)
Hydraulic Gradient (ft/ft) / (Well IDs)	0.015 (MW07 to MW09)

The calculated groundwater elevation data from monitoring wells that contained free phase condensate material were corrected to account for the LNAPL thickness as presented in Table 3.

4.2.1 LNAPL Bail Down and Recovery Test

On May 10, 2019, an LNAPL bail down and recovery test was performed at the temporary piezometer located at soil bore BH20 and groundwater monitoring wells MW02 and MW08 to evaluate LNAPL recovery rates. A Site-wide groundwater elevation and LNAPL thickness gauging event was performed prior to the bail down test and the collected data is provided on Table 3. The LNAPL bail down test was initiated at groundwater monitoring well MW02 utilizing a peristaltic pump and conveyance tubing set within the LNAPL, above the groundwater interface. At monitoring well MW08 and the temporary piezometer at BH20, LNAPL bail down tests were performed using hand bailing methods. Data collected during the LNAPL bail down tests is presented in the table below.

Location	MW02	MW08	BH20
Well Diameter (Inches)	2	2	1
LNAPL Thickness - Test Start (Feet)	3.83	4.42	3.09
LNAPL Thickness - Test End (Feet)	-	0.25	0.98
Approximate LNAPL Volume Recovered (Gal)	3.0	4.5	1.0
LNAPL Thickness at 1 Hr (Feet)	0.05	0.46	2.11
LNAPL Thickness at 24 Hrs (Feet)	0.44	3.05	3.06
LNAPL Thickness at 18 Days (Feet)	0.61	3.48	NA*
Percent (%) LNAPL Recovery in 1 Hour	1%	10%	68%
Percent (%) LNAPL Recovery in 24 Hours	11%	69%	99%
Percent (%) LNAPL Recovery at 18 Days	16%	79%	NA*

Notes:

LNAPL - Light non-Aqueous Phase Liquid

GPM - Gallons (us) per minute

Gal - Gallons (US)

NA - Not Applicable

* - The temporary piezometer at BH20 was removed prior to collecting LNAPL recovery data

4.3 Groundwater Quality Monitoring

On May 28, 2019, a Site-wide groundwater quality monitoring event was performed at monitoring well locations MW01 through MW15 with the exception of MW06 which has been dry since installation. Subsequent to recording groundwater level measurements, groundwater samples were collected from each monitoring well that did not contain measurable LNAPL. A minimum of three well casing volumes of groundwater (calculated from total depth of the well and groundwater level measurements) was purged from each well prior to the collection of groundwater samples.

Groundwater samples were collected using disposable polyethylene bailers, placed in clean laboratory supplied containers, packed on ice in a cooler and maintained at a temperature between zero (0) degrees Celsius (°C) and six (6) °C for transportation under chain-of-custody (COC) procedures to Origins. At the request of the landowner for the private residential structure, water quality samples were submitted to Origins for full suite VOC analysis by USEPA Method 8260B. However, Table 4 summarizes only those constituents regulated by the COGCC Table 910-1 including BTEX. The laboratory analytical results for BTEX are also displayed on Figure 5 and the laboratory analytical report is included as Appendix E.

Analytical results and observations for BTEX constituents are summarized below:

- Benzene was reported above the COGCC Table 910-1 standard of 5 micrograms per liter (µg/L) at six locations with detected concentrations ranging from 6,720 µg/L at MW04 to 125 µg/L at MW14. Benzene was reported below laboratory detection limits and the COGCC Table 910-1 standard at the remaining monitoring well locations.
- Toluene was reported above the COGCC Table 910-1 standard of 560 µg/L at three locations with detected concentrations ranging from 2,620 µg/L at MW01 to 705 µg/L at MW05. Toluene concentrations were detected above laboratory detection limits but below the COGCC Table 910-1 standard at three locations with detected concentrations ranging from 161 µg/L at MW07 to 47.6 µg/L at MW14. Toluene was reported below laboratory detection limits and the COGCC Table 910-1 standard at the remaining monitoring well locations.
- Ethylbenzene was not reported above the COGCC Table 910-1 standard of 700 µg/L at any of the Site monitoring well locations. Ethylbenzene was reported above laboratory detection limits but below the COGCC Table 910-1 standard at five locations with concentrations ranging from 111 µg/L at MW01 to 4.64 µg/L at MW07. Ethylbenzene was reported below laboratory detection limits and the COGCC Table 910-1 standard at the remaining monitoring well locations.
- Total xylenes were not reported above the COGCC Table 910-1 standard of 1,400 µg/L at any of the Site monitoring well locations. Total xylenes were reported above laboratory detection limits but below the COGCC Table 910-1 standard at six locations with detected concentrations ranging from 868 µg/L at MW01 to 6.87 µg/L at MW14. Total xylenes were reported below laboratory detection limits and the COGCC Table 910-1 standards at the remaining well locations.

4.4 Data Quality Assurance / Quality Control

In addition to the groundwater quality samples collected from 14 Site monitoring wells on May 28, 2019, a field duplicate sample was collected for laboratory quality assurance quality control (QA/QC) protocols. The laboratory analytical data from the groundwater quality sampling event were reviewed for compliance with the analytical method and the associated QA/QC procedures. All samples were analyzed using the correct analytical methods, within the correct hold times, and arrived at the laboratory within temperature specifications for VOC analysis. Chain of custody forms were in order and properly executed and data were reported using the correct method number and reporting units. QA/QC items of note for the May 28, 2019 groundwater quality sampling event include the following:

- BTEX analytical results for the Duplicate sample collected from monitoring well MW01 are summarized on Table 4. Comparison of the primary (MW01) and Duplicate sample results for BTEX yielded the following observations:
 - The benzene concentrations in the primary and Duplicate sample were 3,930 µg/L and 3,510 µg/L, respectively, yielding a relative percentage difference (RPD) value of 11.3 which is within the acceptable control limit of 20.
 - The toluene concentrations in the primary and Duplicate sample were 2,620 µg/L and 2,380 µg/L, respectively, yielding a RPD value of 9.6 which is within the acceptable control limit of 20.
 - The ethylbenzene concentrations in the primary and Duplicate sample were 111 µg/L and 100 µg/L, respectively, yielding a RPD value of 10.4 which is within the acceptable control limit of 20.
 - The total xylenes concentrations in the primary and Duplicate sample were 868 µg/L and 801 µg/L, respectively, yielding a RPD value of 8.0 which is within the acceptable control limit of 20.

The overall QA/QC assessment of the data indicates that both field precision and overall data precision and accuracy are acceptable.

5. Conclusions

Evaluation of the findings from the Site subsurface investigation activities that have been performed between April 4, 2019 and May 28, 2019 provide the following general observations:

- Petroleum hydrocarbon impacts to soil appear to have been delineated laterally from the release point at the Site.
- In general, the vertical extents of petroleum hydrocarbon impacts to soil have been delineated throughout the Site and the majority of impacted soil that remains is located between 10 and 16 feet bgs. Elevated soil samples outside of this interval were identified at soil boring BH01 at 4 feet bgs and at BH29 at 18 feet bgs. One additional sample collected from BH24 at 18 feet bgs was returned above standards. However, re-analysis of the sample was performed, and the sample was reported below the COGCC Table 910-1 standards.

- LNAPL has been observed at two monitoring wells on the east side of CR13 and one temporary piezometer on the west side of CR13 with initial thicknesses exceeding 3 feet. The extent of the LNAPL plume on the east side of CR13 has been delineated and LNAPL has not been observed in the monitoring wells nearest the private residential structure.
- The LNAPL bail down test demonstrated that the free phase condensate material may not be evenly distributed throughout the Site. Additionally, LNAPL transmissivity rates are not consistent between the three monitoring points that were tested (MW02, MW08, and BH20). These results may be attributed to several factors including:
 - Slightly more sand content at MW02 compared to MW08 and BH20, in which LNAPL can more easily displace water as compared to clays and silts [refer to boring logs (Appendix B) and cross sections (Appendix C)].
 - The hydraulic conductivity in the sandier material at MW02 is likely higher resulting in groundwater recovery rates that may cut off the mobility of the LNAPL.
 - Slower groundwater recovery in the silt and clay at MW08 and BH20 results in less groundwater recovery which allows the LNAPL to mobilize and thus, a higher LNAPL transmissivity rate.
 - Sub-horizontal fractures were observed in the silt and clay material throughout the site. LNAPL may readily move through the void spaces in those fractures resulting in higher LNAPL transmissivity rates.
 - Based on investigation activities and discussions with the owner for the private residential structure, a below grade dewatering sump is located in the front yard and is approximately 12 feet deep. Additionally, a French drain dewatering system was constructed in the front yard for dewatering purposes and is likely connected to the sump, but the exact location and construction of the French drain is unknown. To date, no liquid including groundwater or hydrocarbon condensate material has been observed within the sump. However, this dewatering system may act as a preferential pathway for condensation mobilization.
- The results of the bail down test indicates that LNAPL recovery is possible and LNAPL extraction and recovery may be a viable remediation alternative at the Site.
- The dissolved phase BTEX groundwater plume has been delineated laterally to the east of the private residential structure in proximity to groundwater monitoring wells MW09 through MW13. Due to elevated benzene concentrations observed at monitoring wells MW07 and MW14, additional dissolved phase benzene plume delineation activities are required to the north and south on the east side of CR13.
- The LNAPL and dissolved phase BTEX plume has not been delineated on the west side of CR13 and additional characterization and delineation activities are required.

6. Recommendations

Based on evaluation of data from the field activities described herein, recommendations for ongoing Site characterization, delineation, and remediation of petroleum hydrocarbon impacts to soil and groundwater include:

- Install five (5) additional groundwater monitoring wells using hollow stem augur drilling with continuous core split spoon sampling methods at the locations illustrated on Figure 6.
- Once drilling and well installations are complete, the monitoring wells will be surveyed for latitude and longitude coordinate locations and top of casing elevations, and well development and groundwater sampling activities will be performed. Well development will be performed using the same methods described in Section 4.1.
- DCP is continuing access agreement negotiations with the landowners for the private residential structure to the east of CR13 and to the northwest and southwest of the intersection of CR42 and CR13. Contingent on final access agreement terms, multiple remediation methods may be utilized to mitigate soil and groundwater impacts at the Site.
- Additional investigation activities are required on the west side of CR13 to delineate soil and groundwater impacts. Contingent on access agreement terms, a combination investigation/remediation approach may be performed to mitigate hydrocarbon impacts to soil and groundwater in that area.
- Subsequent to reaching access agreements with the landowners, DCP will be required to coordinate with the Weld County, Colorado Public Works, Right-of-Way (ROW) department for work activities performed within the ROW of CR42 & CR13. Based on landowner access agreements and Weld County ROW approval and/or coordination efforts, several remediation alternatives may be utilized to mitigate hydrocarbon impacts beneath the roadways.
- Once the access agreements have been finalized, a Form 27 Supplemental report will be submitted to the COGCC with proposed investigation and remediation alternatives for the Site. Additionally, the results of the groundwater monitoring activities will be provided for the proposed additional 5 monitoring wells on the east side of CR13 in proximity to the private residential structure.

Tables

TABLE 1
DCP MIDSTREAM
CR42 AND CR13
EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH ⁽²⁾ (mg/kg)	Comments
SS09 @ 7'	4/4/2019	7	196.8	0.035	0.123	0.019	0.149	<50.0	
SS12 @ 8'	4/4/2019	8	96.5	<0.002	<0.002	<0.002	<0.002	<50.0	
SS13 @ 9'	4/4/2019	9	101.3	<0.002	<0.002	<0.002	<0.002	<50.0	
SS14 @ 9'	4/4/2019	9	267.0	<0.002	<0.002	<0.002	<0.002	<50.0	
SS15 @ 10'	4/4/2019	10	17.1	0.010	0.025	0.004	0.033	<50.0	
SS16 @ 10'	4/4/2019	10	229.1	<0.002	<0.002	<0.002	<0.002	<50.0	
SS18 @ 10'	4/4/2019	10	229.5	<0.050	<0.050	<0.050	<0.050	<50.0	
SS19 @ 9'	4/4/2019	9	131.8	<0.002	<0.002	<0.002	<0.002	<50.0	
SS20 @ 10'	4/4/2019	10	186.4	0.042	0.022	<0.002	0.015	<50.0	
SS21 @ 9'	4/4/2019	9	104.4	<0.002	0.002	<0.002	<0.002	<50.0	
SS22 @ 9'	4/4/2019	9	55.8	0.014	0.007	<0.002	0.007	<50.0	
SS23 @ 10'	4/4/2019	10	86.8	0.008	0.008	<0.002	0.009	<50.0	
SS24 @ 10'	4/4/2019	10	88.5	0.282	0.176	0.008	0.060	<50.0	
SS24B @ 11'	4/5/2019	11	69.0	0.0505	<0.0500	<0.0500	<0.0500	<50.0	
SS25 @ 9'	4/4/2019	9	82.8	0.004	0.006	<0.002	0.009	<50.0	
SS27 @ 9'	4/5/2019	9	180.0	0.0665	0.0730	<0.0500	<0.0500	<50.0	
SS28 @ 11'	4/5/2019	11	201.0	0.103	0.106	<0.0500	<0.0500	<50.0	
SS29 @ 9'	4/5/2019	9	175.0	0.272	0.131	<0.0500	<0.0500	<50.0	
SS30 @ 9'	4/5/2019	9	110.0	0.0835	0.0855	<0.0500	<0.0500	<50.0	
SS31 @ 11'	4/5/2019	11	104.0	0.213	0.112	<0.0500	<0.0500	<50.0	
SS32 @ 9'	4/5/2019	9	105.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
SS33 @ 9'	4/5/2019	9	98.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	

TABLE 1
DCP MIDSTREAM
CR42 AND CR13
EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH ⁽²⁾ (mg/kg)	Comments
SS34 @ 11'	4/5/2019	11	87.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
SS35 @ 9'	4/5/2019	9	304.0	0.270	0.656	0.106	0.864	<50.0	
SS36 @ 8'	4/5/2019	8	>5,000	36.70	60.6	6.22	43.5	2,830	
SS37 @ 7'	4/5/2019	7	288.0	0.331	0.244	<0.0500	<0.0500	<50.0	
COGCC Standards for Soil (mg/kg) ⁽¹⁾				0.17	85	100	175	500	

Notes:

1). Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

bgs - Below ground surface.

ppm - Parts per million

NS - Not Sampled

Bold values indicate an exceedance of the COGCC soil standards for the Site.

TABLE 2
DCP MIDSTREAM
CR42 AND CR13
SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH ⁽²⁾ (mg/kg)	Comments
BH01 @ 4'	4/6/2019	4	373	0.452	0.158	<0.0500	0.0500	<50.0	
BH01 @ 10'	4/6/2019	10	298	0.900	0.837	0.0810	0.610	101.0	
BH02 @ 03'	4/6/2019	3	88	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH02 @ 10'	4/6/2019	10	58.2	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH03 @ 10'	4/6/2019	10	170.4	0.231	0.110	<0.0500	<0.0500	<50.0	
BH04 @ 10'	4/6/2019	10	197	0.510	0.306	<0.0500	<0.0500	<50.0	
BH05 @ 12-14'	4/8/2019	12 - 14	464 - 637	0.0980	0.170	<0.0500	0.177	89.3	
BH06 @ 13-14'	4/8/2019	13 - 14	349	0.528	0.668	0.0650	0.460	94.9	
BH07 @ 11-12'	4/8/2019	11 - 12	42	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH07 @ 13-14'	4/8/2019	13 - 14	15.6	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH08 @ 10-11'	4/8/2019	10 - 11	28	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH08 @ 13-14'	4/8/2019	13 - 14	18.8	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH09 @ 11-12'	4/8/2019	11 - 12	79.3	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH09 @ 13-14'	4/8/2019	13 - 14	6.8	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH10 @ 12-13'	4/8/2019	12 - 13	715	3.04	9.36	1.19	8.47	338	
BH11 @ 7-8'	4/8/2019	7 - 8	71.1	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH11 @ 13.5'	4/8/2019	13.5	20.5	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH12-HA @ 11.5'	4/9/2019	11.5	850.0	<0.0500	0.0990	<0.0500	0.174	105.1	Hand augur sample collected south west of County Road intersection.
BH13-HA @ 4-5'	4/9/2019	4-5	108.4	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hand augur sample collected south west of County Road intersection.
BH13-HA @ 13.5'	4/9/2019	13.5	65.1	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hand augur sample collected south west of County Road intersection.
BH12 @ 12.5'	4/22/2019	12.5	794.0	13.4	24.3	2.56	16.8	892	Hollow stem augur drilling location near the private residence
BH12 @ 16'	4/22/2019	16	82.5	0.00664	0.00706	<0.00200	<0.00200	<50.0	Hollow stem augur drilling location near the private residence

TABLE 2
DCP MIDSTREAM
CR42 AND CR13
SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH ⁽²⁾ (mg/kg)	Comments
BH13 @ 14'	4/22/2019	14	354.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hollow stem augur drilling location near the private residence (MW01)
BH13 @ 17'	4/22/2019	17	17.4	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hollow stem augur drilling location near the private residence (MW01)
BH14 @ 12.5'	4/22/2019	12.5	394.0	0.140	0.144	<0.0500	<0.0500	<50.0	MW02
BH14 @ 18'	4/22/2019	18	66.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW02
BH15 @ 11.5'	4/22/2019	11.5	642.0	0.120	0.368	0.0770	0.592	<50.0	MW03
BH15 @ 16'	4/22/2019	16	60.4	0.00316	0.00352	<0.00200	<0.00200	<50.0	MW03
BH16 @ 12'	4/22/2019	12	1,171.0	6.27	11.2	1.26	8.60	852	MW04
BH16 @ 14.5'	4/22/2019	14.5	85.1	0.00978	0.00830	<0.00200	<0.00200	<50.0	MW04
BH17@ 8'	4/23/2019	8	14.2	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
BH17@ 10'	4/23/2019	10	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH18@ 12.5'	4/23/2019	12.5	881.8	0.245	0.816	0.165	1.28	106.6	MW05
BH18@ 16'	4/23/2019	16	2.2	0.00398	0.00318	<0.00200	<0.00200	<50.0	MW05
BH19@ 11.5'	4/23/2019	11.5	335.0	0.638	0.546	<0.0500	0.221	<50.0	
BH20@ 12'	4/23/2019	12	549.0	22.1	27.1	2.34	15.9	1,724	
BH20@ 14.5'	4/23/2019	14.5	467.0	24.1	26.7	2.14	14.3	1,532	
BH21@ 13-14'	4/23/2019	13-14	385.0	5.17	6.80	0.670	4.38	499	
BH21@ 15'	4/23/2019	15	345.0	12.8	20.1	1.94	12.7	870.9	
BH22@ 10'	4/23/2019	10	14.5	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW06
BH22@ 11'	4/23/2019	11	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW06
BH23@ 13.5'	4/23/2019	13.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
BH24@ 12'	4/23/2019	12	230.7	29.3	51.0	5.57	36.0	3,218	MW08
BH24@ 16'	4/23/2019	16	16.8	0.200	0.422	0.104	0.815	153.1	MW08

TABLE 2
DCP MIDSTREAM
CR42 AND CR13
SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH ⁽²⁾ (mg/kg)	Comments
BH24@ 18'	4/23/2019	18	4.2	0.284	0.158	0.00608	0.0386	<50.0	MW08
BH24@ 18' (RERUN)	4/23/2019	18	4.2	0.0419	0.0340	<0.00200	0.0118	<50.0	MW08
BH25@ 13'	4/23/2019	13	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW07
BH26@ 12.5	4/23/2019	12.5	330.0	0.0138	0.0273	0.00278	0.0216	<50.0	
BH27 @ 16'	4/26/2019	16	118.9	0.00620	0.00216	<0.00200	<0.00200	<50.0	
BH27 @ 18'	4/26/2019	18	10.8	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
BH28 @ 2-3'	4/26/2019	2-3	213.0	0.0700	0.0344	<0.00200	0.00540	<50.0	
BH28 @ 11'	4/26/2019	11	104.0	0.0401	0.0306	<0.00200	0.00670	<50.0	
BH29 @ 13-14'	4/26/2019	13-14	365.0	0.00230	<0.00200	<0.00200	<0.00200	<50.0	
BH29 @ 18'	4/26/2019	18	103.0	0.246	0.453	0.0995	0.749	<50.0	
BH30 @ 16'	4/26/2019	16	341.0	0.123	0.146	<0.0500	<0.0500	<50.0	
BH30 @ 18'	4/26/2019	18	160.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-09 @ 19'	5/8/2019	19	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
MW-10 @ 9.5'	5/8/2019	9.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-10 @ 18'	5/8/2019	18	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-11 @ 9'	5/8/2019	9	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
MW-11 @ 18'	5/8/2019	18	3.3	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-12 @ 18.5'	5/8/5019	18.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW13 @ 9.5'	5/23/2019	9.5	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW13 @ 18'	5/23/2019	18	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW13 @ 19'	5/23/2019	19	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW14 @ 11'	5/23/2019	11	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	

TABLE 2
DCP MIDSTREAM
CR42 AND CR13
SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH ⁽²⁾ (mg/kg)	Comments
MW14 @ 14'	5/23/2019	14	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW14 @ 18.5'	5/23/2019	18.5	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW15 @ 7'	5/23/2019	7	17.7	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW15 @ 12'	5/23/2019	12	103.7	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW15 @ 14'	5/23/2019	14	4.5	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW15 @ 18.5'	5/23/2019	18.5	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
COGCC Standards for Soil (mg/kg) ⁽¹⁾				0.17	85	100	175	500	

Notes:

1). Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

bgs - Below ground surface.

ppm - Parts per million

NS - Not Sampled

Bold values indicate an exceedance of the COGCC soil standards for the Site.

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP CR42 CR13 PIPELINE RELEASE
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event ¹ (feet)
MW01	4/24/2019	14.64			16.92	4,994.44	4,979.80	NA
MW01	5/10/2019	14.51			16.92	4,994.44	4,979.93	0.13
MW01	5/28/2019	14.37			16.92	4,994.44	4,980.07	0.14
MW02	4/23/2019	15.79	12.15	3.64	18.06	4,993.50	4,980.44	NA
MW02	4/24/2019	16.25	12.06	4.19	18.06	4,993.50	4,980.39	-0.05
MW02	5/10/2019	15.90	12.07	3.83	18.06	4,993.50	4,980.47	0.08
MW02	5/11/2019	13.48	13.04	0.44	18.06	4,993.50	4,980.35	-0.12
MW02	5/28/2019	13.61	13.00	0.61	18.06	4,993.50	4,980.35	0.00
MW03	4/24/2019	11.18			15.81	4,992.60	4,981.42	NA
MW03	5/10/2019	11.10			15.81	4,992.60	4,981.50	0.08
MW03	5/28/2019	11.09			15.81	4,992.60	4,981.51	0.01
MW04	4/23/2019	12.73			14.74	4,993.02	4,980.29	NA
MW04	4/24/2019	12.75			14.74	4,993.02	4,980.27	-0.02
MW04	5/10/2019	12.60			14.74	4,993.02	4,980.42	0.15
MW04	5/28/2019	12.53			14.74	4,993.02	4,980.49	0.07
MW05	4/24/2019	13.19			15.69	4,993.36	4,980.17	NA
MW05	5/10/2019	13.04			15.69	4,993.36	4,980.32	0.15
MW05	5/28/2019	13.00			15.69	4,993.36	4,980.36	0.04
MW06	4/24/2019	DRY			10.76	4,991.14	NA	NA
MW06	5/10/2019	DRY			10.80	4,991.14	NA	NA
MW06	5/28/2019	DRY			10.72	4,991.14	NA	NA
MW07	4/23/2019	11.07			15.09	4,992.74	4,981.67	NA
MW07	4/24/2019	11.17			15.09	4,992.74	4,981.57	-0.10
MW07	5/10/2019	10.96			15.09	4,992.74	4,981.78	0.21
MW07	5/28/2019	10.95			15.09	4,992.74	4,981.79	0.01
MW08	4/23/2019	13.75	13.42	0.33	17.78	4,993.26	4,979.76	NA
MW08	4/24/2019	15.71	12.61	3.10	17.78	4,993.26	4,979.88	0.12
MW08	5/10/2019	16.82	12.40	4.42	17.78	4,993.26	4,979.76	-0.12
MW08	5/11/2019	15.50	12.45	3.05	17.78	4,993.26	4,980.05	0.29
MW08	5/28/2019	15.78	12.30	3.48	17.78	4,993.26	4,980.09	0.04
MW09	5/10/2019	10.49			22.92	4,990.30	4,979.81	NA
MW09	5/28/2019	12.44			22.92	4,990.30	4,977.86	-1.95
MW10	5/10/2019	10.99			23.00	4,990.59	4,979.60	NA
MW10	5/28/2019	10.99			23.00	4,990.59	4,979.60	0.00
MW11	5/10/2019	12.10			23.05	4,991.03	4,978.93	NA
MW11	5/28/2019	10.84			23.05	4,991.03	4,980.19	1.26
MW12	5/10/2019	12.51			24.93	4,991.16	4,978.65	NA
MW12	5/28/2019	10.38			24.93	4,991.16	4,980.78	2.13

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP CR42 CR13 PIPELINE RELEASE
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event ¹ (feet)
MW13	5/28/2019	11.20			18.60	4,990.68	4,979.48	NA
MW14	5/28/2019	13.29			18.30	4,991.64	4,978.35	NA
MW15	5/28/2019	13.53			18.24	4,992.24	4,978.71	NA
BH17*	4/23/2019	DRY			10.09	4,993.16	NA	NA
BH17*	4/24/2019	DRY			10.11	4,993.16	NA	NA
BH17*	5/10/2019	DRY			10.11	4,993.16	NA	NA
BH19*	4/23/2019	DRY			12.59	4,994.06	NA	NA
BH19*	4/24/2019	DRY			12.60	4,994.06	NA	NA
BH19*	5/10/2019	DRY			12.60	4,994.06	NA	NA
BH20*	4/23/2019	-	11.78	3.26	15.04	4,992.74	NA	NA
BH20*	4/24/2019	-	11.84	3.20	15.04	4,992.74	NA	NA
BH20*	5/10/2019	-	11.95	3.09	15.04	4,992.74	NA	NA
BH20*	5/11/2019	14.99	11.93	3.06	15.04	4,992.74	4,980.05	NA
BH21*	4/23/2019	13.37			14.70	4,992.40	4,979.03	NA
BH21*	4/24/2019	13.31			14.70	4,992.40	4,979.09	0.06
BH21*	5/10/2019	13.30			14.70	4,992.40	4,979.10	0.01
BH23*	4/23/2019	DRY			14.99	4,993.56	NA	NA
BH23*	4/24/2019	DRY			15.02	4,993.56	NA	NA
BH23*	5/10/2019	DRY			15.02	4,993.56	NA	NA

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL relative density was assumed to be approximately 0.75

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

DRY = Groundwater was not present within the monitoring well.

NA = Not Applicable

- Groundwater was not present beneath the observed LNAPL within the well during gauging.

*Temporary piezometer. Well casing was removed between May 12, and May 16, 2019. Measured Total Depths are not representative from ground surface as the top of well casings were completed as stick-up points above ground level.

TABLE 4
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP CR42 and CR13 PIPELINE RELEASE
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
MW01	5/28/2019	3,930	2,620	111	868	
MW02	5/28/2019	LNAPL				Sample not collected
MW03	5/28/2019	918	108	4.78	92.7	
MW04	5/28/2019	6,720	2,340	56.9	471	
MW05	5/28/2019	1,160	705	46.9	300.0	
MW06	5/28/2019	DRY				Sample not collected
MW07	5/28/2019	352	161	4.64	36.7	
MW08	5/28/2019	LNAPL				Sample not collected
MW09	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW10	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW11	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW12	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW13	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW14	5/28/2019	125	47.6	<1.00	6.87	
MW15	5/28/2019	<1.00	<1.00	<2.00	<1.00	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

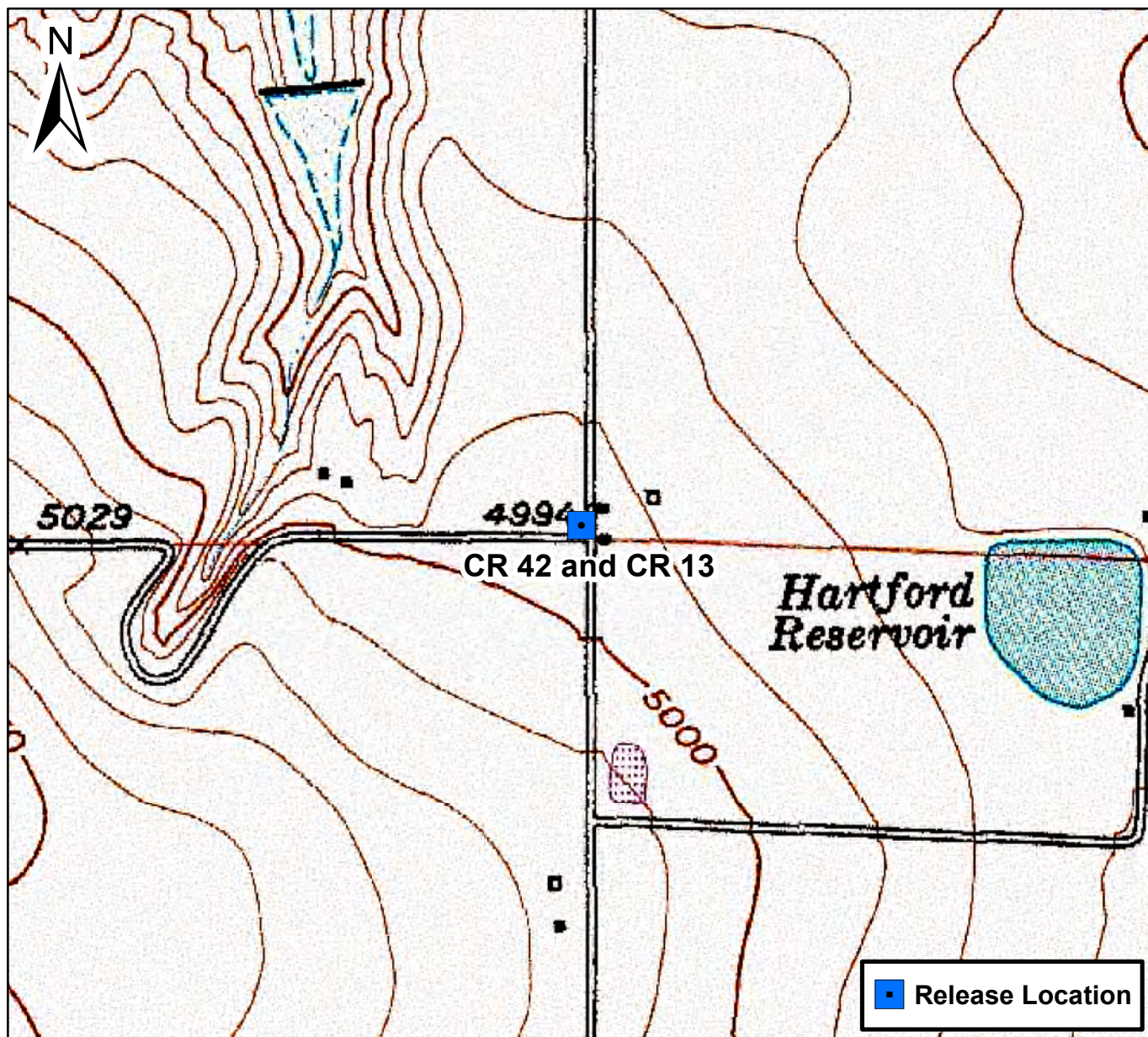
Bold values indicate an exceedance of the COGCC groundwater standards for the Site.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

DRY - Groundwater was not present within the monitoring well.

Figures



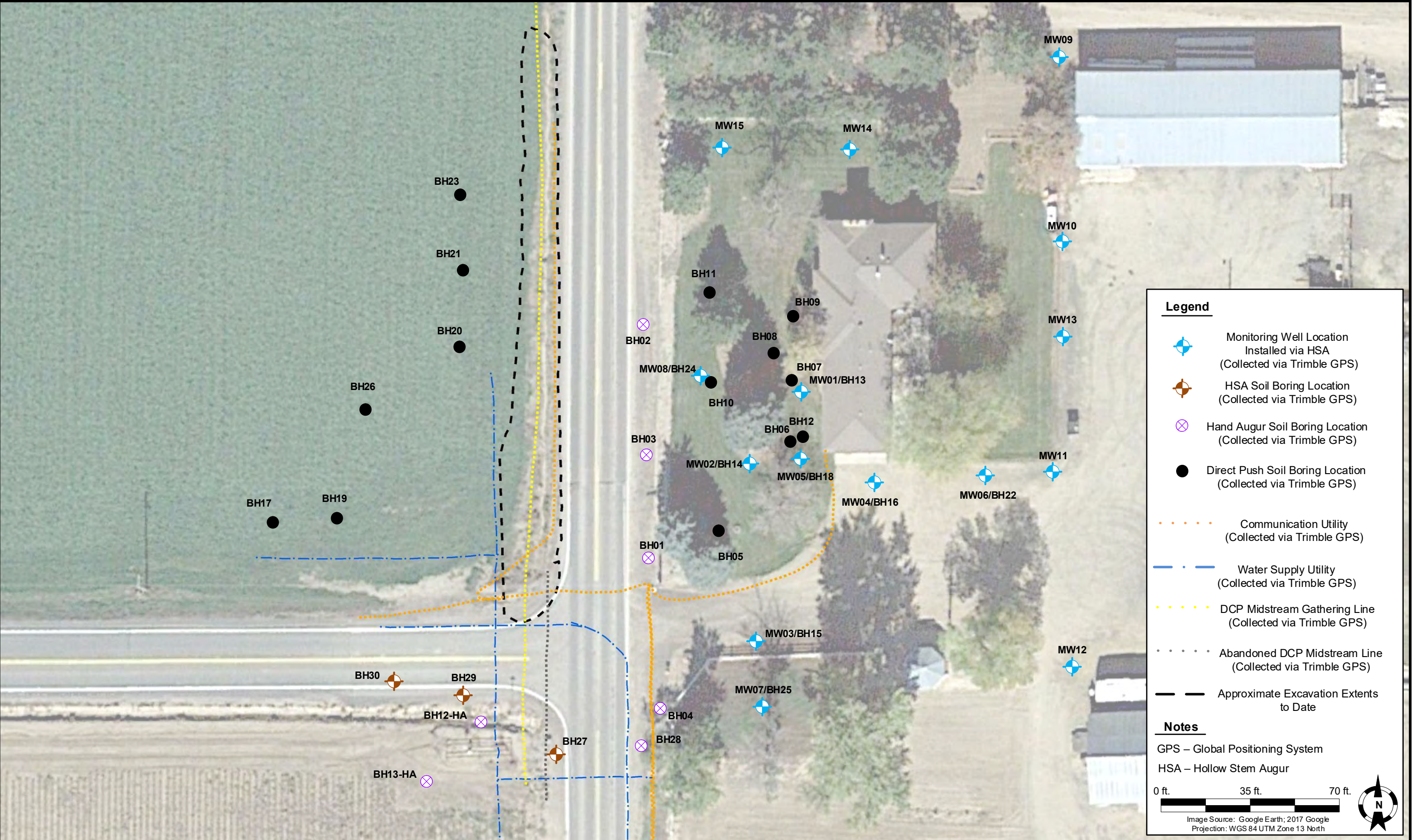
0 750 1,500 Feet

Figure 1

Site Location Map
CR 42 and CR 13
SESE S24 T4N R68W
Weld County, Colorado







DATE:	April 9, 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold



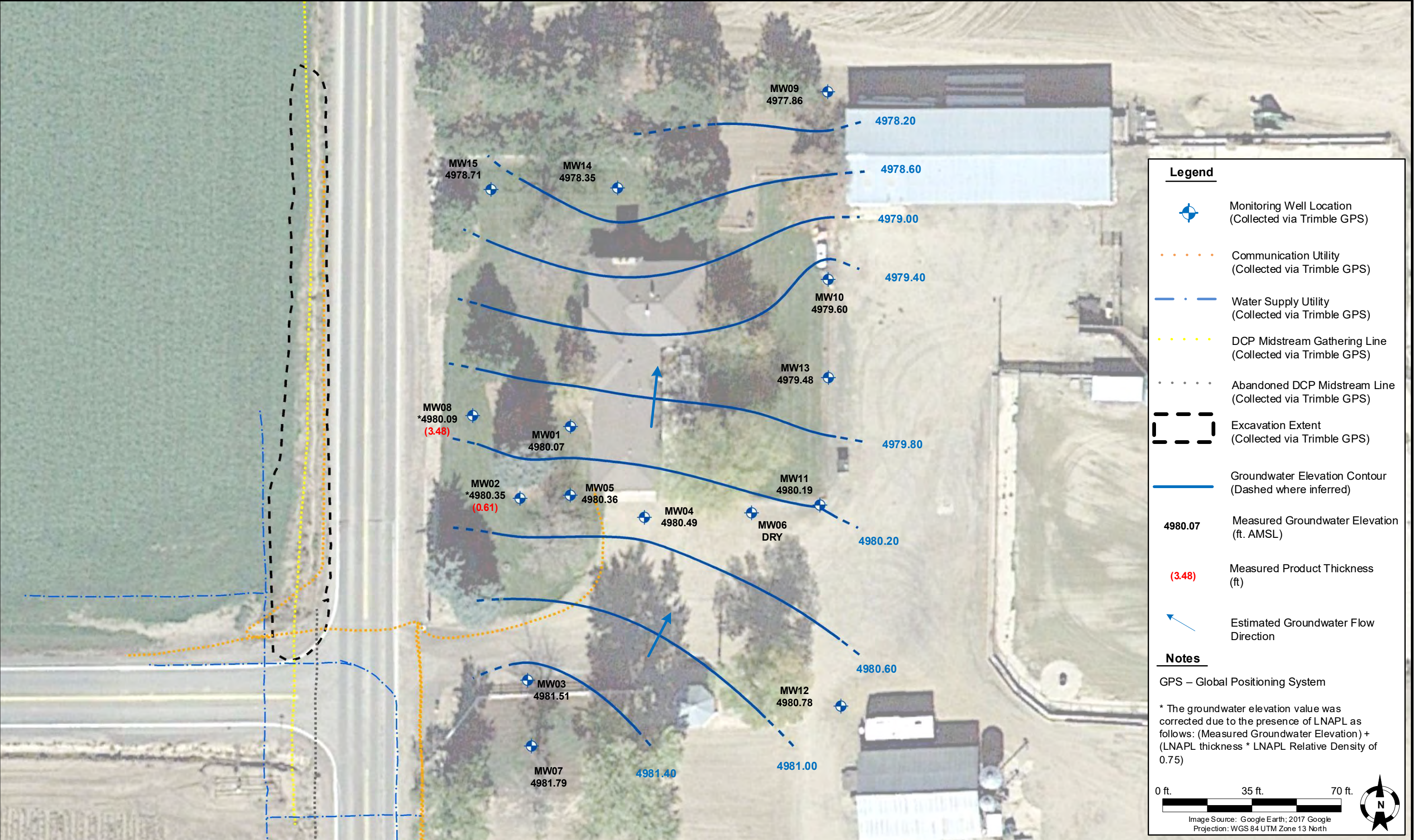
TASMAN
GEOSCIENCES

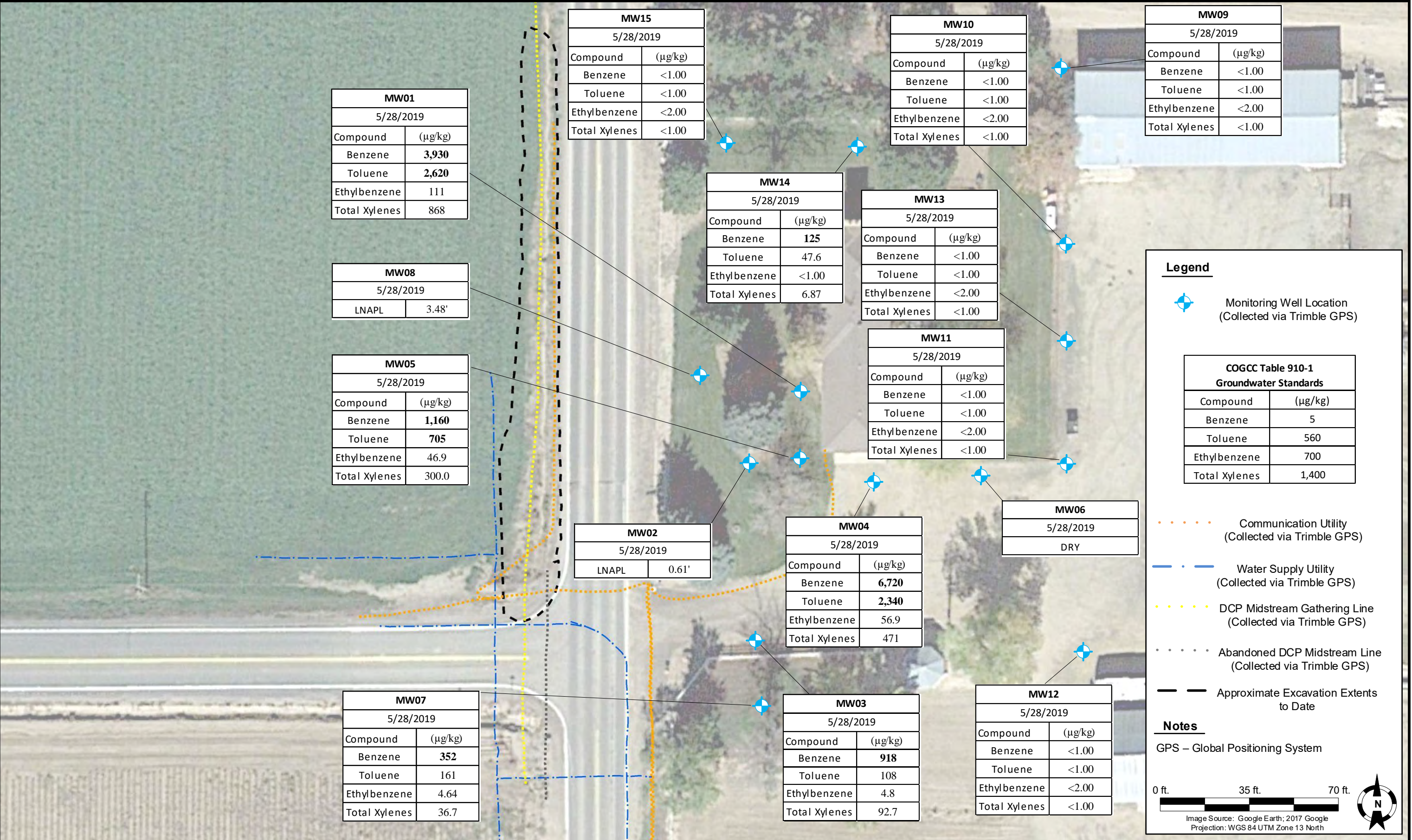
Tasman Geosciences, Inc.
6899 Pecos Street – Unit C
Denver, CO 80221

DCP Midstream – DJ Basin
CR 42 and CR 13
SESE, Section 24, Township 4 North, Range 68 West
Weld County, Colorado

Soil Boring and Monitoring
Well Locations Map

FIGURE
3





DATE: April 9, 2019

DESIGNED BY: B. Humphrey

DRAWN BY: D. Arnold



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6899 Pecos Street – Unit C
Denver, CO 80221

DCP Midstream – DJ Basin
CR 42 and CR 13
SESE, Section 24, Township 4 North, Range 68 West
Weld County, Colorado

Groundwater Analytical
Results Map
May 28, 2019

FIGURE
5



DATE:	April 9, 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold



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Tasman Geosciences, Inc.
6899 Pecos Street – Unit C
Denver, CO 80221

DCP Midstream – DJ Basin
CR 42 and CR 13
SESE, Section 24, Township 4 North, Range 68 West
Weld County, Colorado

Proposed Monitoring Well
Locations Map

FIGURE
6

Appendix A

Excavation Soil Sample Laboratory Analytical Results



April 05, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13 Line Leak

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 Line Leak received by Origins Laboratory, Inc. April 04, 2019. This project is associated with Origins project number Y904096-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS09@7'	Y904096-01	Soil	April 4, 2019 9:30	04/04/2019 16:35
SS12@8'	Y904096-02	Soil	April 4, 2019 10:00	04/04/2019 16:35
SS13@9'	Y904096-03	Soil	April 4, 2019 10:05	04/04/2019 16:35
SS14@9'	Y904096-04	Soil	April 4, 2019 10:10	04/04/2019 16:35
SS15@10'	Y904096-05	Soil	April 4, 2019 10:25	04/04/2019 16:35
SS16@10'	Y904096-06	Soil	April 4, 2019 10:30	04/04/2019 16:35
SS18@10'	Y904096-07	Soil	April 4, 2019 11:40	04/04/2019 16:35
SS19@9'	Y904096-08	Soil	April 4, 2019 11:50	04/04/2019 16:35
SS20@10'	Y904096-09	Soil	April 4, 2019 12:00	04/04/2019 16:35
SS21@9'	Y904096-10	Soil	April 4, 2019 12:10	04/04/2019 16:35
SS22@9'	Y904096-11	Soil	April 4, 2019 14:15	04/04/2019 16:35
SS23@10'	Y904096-12	Soil	April 4, 2019 14:20	04/04/2019 16:35
SS24@10'	Y904096-13	Soil	April 4, 2019 14:25	04/04/2019 16:35
SS25@9'	Y904096-14	Soil	April 4, 2019 14:30	04/04/2019 16:35

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13 Line Leak

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

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LABORATORY, INC

www.originslaboratory.com

Y904096

page 1 of 2

Client: DCP / Tasman
Address:
Telephone Number: 303-487-1228
Email Address: B.Humphrey@tasman-geo.com
Project Manager: Brian Humphrey
Project Name: CR42 & CR13 Line Leak
Project Number:
Samples Collected By: GB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summation			
SS09 @ 7'	4/4/19	0930	1	X					X			8015 GB 8260B GAT EX	1
SS12 @ 8'	4/4/19	1000	1										2
SS13 @ 9'	4/4/19	1005	1										3
SS14 @ 9'	4/4/19	1010	1										4
SS15 @ 10'	4/4/19	1025	1										5
SS16 @ 10'	4/4/19	1030	1										6
SS18 @ 10'	4/4/19	1140	1										7
SS19 @ 9'	4/4/19	1150	1										8
SS20 @ 10'	4/4/19	1200	1										9
SS21 @ 9'	4/4/19	1210	1										10
Relinquished By: [Signature]	Date: 4/4/19	Time: 1630		Received By: [Signature]				Received By: [Signature]			Date: 4/4/19	Time: 1635	
Relinquished By: [Signature]	Date: 4/4/19	Time: 1640		Received By: [Signature]				Received By: [Signature]			Date: 4/4/19	Time: 1635	

Temp Received - 5.6° Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

ORIGINS
LABORATORY, INC

7604096

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page 2 of 2

Client: DCP / Tasman
Address: _____
Telephone Number: 303-487-1228
Email Address: BHumphrey@tasman-geo.com
Project Manager: Brian Humphrey
Project Name: CR42 & CR13 Line Leak
Project Number: GB
Samples Collected By: GB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa			Other
SS22 @ 9'	4/4/19	1415	1	X					X			8015 DRG	1
SS23 @ 10'	4/4/19	1420	1									GB 2608	2
SS24 @ 10'	4/4/19	1425	1									GB 2608	3
SS25 @ 9'	4/4/19	1430	1									GB 2608	4
													5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	4/4/19	1630	Tasman DCP	4/4/19	1630	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>
<i>[Signature]</i>	4/4/19	1640	<i>[Signature]</i>	4/4/19	1635	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Temp Received: 5.6°

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904096

Client: Tasman

Client Project ID: DCP - CR42 & CR13

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/4/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 5.6 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/4/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS09@7'

4/4/2019 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/04/2019	U
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Surrogate: o-Terphenyl	67.0 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	11.4	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019
Benzene	0.035	0.002	"	"	"	JTD	"	"
Toluene	0.123	0.002	"	"	"	JTD	"	"
Ethylbenzene	0.019	0.002	"	"	"	JTD	"	"
Xylenes, total	0.149	0.002	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"	"	"
Surrogate: Toluene-d8	94.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS12@8'

4/4/2019 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/04/2019	U
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Surrogate: o-Terphenyl	65.6 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.273	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"		
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS13@9'

4/4/2019 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/04/2019	U
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Surrogate: o-Terphenyl	63.5 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"		
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS14@9'

4/4/2019 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	71.7 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"		
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS15@10'

4/4/2019 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	64.4 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1.55	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019
Benzene	0.010	0.002	"	"	"	JTD	"	"
Toluene	0.025	0.002	"	"	"	JTD	"	"
Ethylbenzene	0.004	0.002	"	"	"	JTD	"	"
Xylenes, total	0.033	0.002	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	130 %	70-130			"	"	"
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS16@10'

4/4/2019 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-06 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	68.6 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"		
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS18@10'

4/4/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-07 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	60.5 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	6.60	5.00	mg/kg	25	B9D0406	JTD	04/04/2019	04/05/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130			"	"	"		
Surrogate: Toluene-d8	103 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS19@9'

4/4/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-08 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	63.5 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS20@10'

4/4/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-09 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
------------------	----	------	-------	---	---------	-----	------------	------------	---

Surrogate: o-Terphenyl	62.1 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.307	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	
Benzene	0.042	0.002	"	"	"	JTD	"	"	
Toluene	0.022	0.002	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	0.015	0.002	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"		
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS21@9'

4/4/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-10 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	66.1 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	0.002	0.002	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"		
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS22@9'

4/4/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-11 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	57.6 %	59-131			"	"	"	S-04
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.270	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/05/2019	
Benzene	0.014	0.002	"	"	"	JTD	"	"	
Toluene	0.007	0.002	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	0.007	0.002	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"	"	"
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS23@10'

4/4/2019 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-12 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	65.9 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.362	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	
Benzene	0.008	0.002	"	"	"	JTD	"	"	
Toluene	0.008	0.002	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	0.009	0.002	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"		
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS24@10'

4/4/2019 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-13 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	57.3 %	59-131			"	"	"	S-04
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1.43	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019
Benzene	0.282	0.002	"	"	"	JTD	"	"
Toluene	0.176	0.002	"	"	"	JTD	"	"
Ethylbenzene	0.008	0.002	"	"	"	JTD	"	"
Xylenes, total	0.060	0.002	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

SS25@9'

4/4/2019 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904096-14 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0402	JTD	04/04/2019	04/05/2019	U
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Surrogate: o-Terphenyl	59.7 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.221	0.200	mg/kg	1	B9D0406	JTD	04/04/2019	04/04/2019	
Benzene	0.004	0.002	"	"	"	JTD	"	"	
Toluene	0.006	0.002	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	0.009	0.002	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0406 - EPA 5030 (soil)										
Blank (B9D0406-BLK1)					Prepared: 04/04/2019 Analyzed: 04/04/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0406 - EPA 5030 (soil)

Blank (B9D0406-BLK2)

Prepared: 04/04/2019 Analyzed: 04/04/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0406 - EPA 5030 (soil)										
LCS (B9D0406-BS1)					Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	0.097	0.002	mg/kg	0.100		96.7	77.1-124			
Toluene	0.097	0.002	"	0.100		96.9	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		95.9	66.4-127			
m,p-Xylene	0.196	0.004	"	0.200		97.8	76.6-124			
o-Xylene	0.095	0.002	"	0.100		94.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0406 - EPA 5030 (soil)										
LCS (B9D0406-BS2)					Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	0.093	0.002	mg/kg	0.100		92.9	77.1-124			
Toluene	0.089	0.002	"	0.100		89.1	74.5-128			
Ethylbenzene	0.086	0.002	"	0.100		85.8	66.4-127			
m,p-Xylene	0.177	0.004	"	0.200		88.4	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0406 - EPA 5030 (soil)

Matrix Spike (B9D0406-MS1)		Source: Y904061-01			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	0.085	0.002	mg/kg	0.100	ND	84.7	71.8-126			
Toluene	0.082	0.002	"	0.100	ND	82.2	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	ND	80.6	62.2-130			
m,p-Xylene	0.166	0.004	"	0.200	ND	82.9	46.5-137			
o-Xylene	0.082	0.002	"	0.100	0.0004	81.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0406 - EPA 5030 (soil)

Matrix Spike (B9D0406-MS2)		Source: Y904091-02			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	0.099	0.002	mg/kg	0.100	ND	98.9	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	95.2	65.1-130			
Ethylbenzene	0.096	0.002	"	0.100	ND	95.5	62.2-130			
m,p-Xylene	0.197	0.004	"	0.200	ND	98.3	46.5-137			
o-Xylene	0.097	0.002	"	0.100	ND	97.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0406 - EPA 5030 (soil)

Matrix Spike Dup (B9D0406-MSD1)		Source: Y904061-01			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	0.085	0.002	mg/kg	0.100	ND	85.1	71.8-126	0.448	11.3	
Toluene	0.082	0.002	"	0.100	ND	82.0	65.1-130	0.317	15.4	
Ethylbenzene	0.080	0.002	"	0.100	ND	80.2	62.2-130	0.448	19.6	
m,p-Xylene	0.165	0.004	"	0.200	ND	82.3	46.5-137	0.750	19.2	
o-Xylene	0.080	0.002	"	0.100	0.0004	80.0	54.2-134	2.22	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0406 - EPA 5030 (soil)

Matrix Spike Dup (B9D0406-MSD2)		Source: Y904091-02			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	0.094	0.002	mg/kg	0.100	ND	93.8	71.8-126	5.27	11.3	
Toluene	0.091	0.002	"	0.100	ND	90.8	65.1-130	4.73	15.4	
Ethylbenzene	0.091	0.002	"	0.100	ND	91.5	62.2-130	4.34	19.6	
m,p-Xylene	0.188	0.004	"	0.200	ND	94.2	46.5-137	4.19	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	92.5	54.2-134	4.83	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0402 - EPA 3580

Blank (B9D0402-BLK1)				Prepared: 04/04/2019 Analyzed: 04/04/2019						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	40		"	50.0		79.8	59-131			
Blank (B9D0402-BLK2)				Prepared: 04/04/2019 Analyzed: 04/04/2019						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	40		"	50.0		80.7	59-131			
LCS (B9D0402-BS1)				Prepared: 04/04/2019 Analyzed: 04/04/2019						
Diesel (C10-C28)	785	50.0	mg/kg	1000		78.5	64-121			
Surrogate: o-Terphenyl	41		"	50.0		82.8	59-131			
LCS (B9D0402-BS2)				Prepared: 04/04/2019 Analyzed: 04/04/2019						
Diesel (C10-C28)	848	50.0	mg/kg	1000		84.8	64-121			
Surrogate: o-Terphenyl	48		"	50.0		95.6	59-131			
Matrix Spike (B9D0402-MS1)				Source: Y904076-61		Prepared: 04/04/2019 Analyzed: 04/04/2019				
Diesel (C10-C28)	793	50.0	mg/kg	1000	24.8	76.9	53-125			
Surrogate: o-Terphenyl	42		"	50.0		84.6	59-131			
Matrix Spike (B9D0402-MS2)				Source: Y904076-62		Prepared: 04/04/2019 Analyzed: 04/04/2019				
Diesel (C10-C28)	752	50.0	mg/kg	1000	13.1	73.8	53-125			
Surrogate: o-Terphenyl	38		"	50.0		75.5	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13 Line Leak

Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0402 - EPA 3580										
Matrix Spike Dup (B9D0402-MSD1)		Source: Y904076-61			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Diesel (C10-C28)	737	50.0	mg/kg	1000	24.8	71.2	53-125	7.42	20	
Surrogate: o-Terphenyl	34		"	50.0		68.3	59-131			
Matrix Spike Dup (B9D0402-MSD2)		Source: Y904076-62			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Diesel (C10-C28)	733	50.0	mg/kg	1000	13.1	72.0	53-125	2.54	20	
Surrogate: o-Terphenyl	37		"	50.0		73.8	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13 Line Leak

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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April 08, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 05, 2019. This project is associated with Origins project number Y904132-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS24B@11'	Y904132-01	Soil	April 5, 2019 12:10	04/05/2019 17:05
SS27@9'	Y904132-02	Soil	April 5, 2019 14:00	04/05/2019 17:05
SS28@11'	Y904132-03	Soil	April 5, 2019 14:05	04/05/2019 17:05
SS29@9'	Y904132-04	Soil	April 5, 2019 14:10	04/05/2019 17:05
SS30@9'	Y904132-05	Soil	April 5, 2019 14:30	04/05/2019 17:05
SS31@11'	Y904132-06	Soil	April 5, 2019 14:35	04/05/2019 17:05
SS32@9'	Y904132-07	Soil	April 5, 2019 14:40	04/05/2019 17:05
SS33@9'	Y904132-08	Soil	April 5, 2019 15:30	04/05/2019 17:05
SS34@11'	Y904132-09	Soil	April 5, 2019 15:35	04/05/2019 17:05
SS35@9'	Y904132-10	Soil	April 5, 2019 15:40	04/05/2019 17:05
SS36@8'	Y904132-11	Soil	April 5, 2019 15:45	04/05/2019 17:05
SS37@7'	Y904132-12	Soil	April 5, 2019 15:50	04/05/2019 17:05

Per the email from James on 04/08/19, samples SS35@9' and SS37@7' were taken off hold.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

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1904132

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ORIGINS
LABORATORY, INC

Client: Tasman Geo/DCP
Address: 6899 Pecos St.
Denver, CO
Telephone Number: 303.296.7887
Email Address: jeff@tasman-geo.com
bhumphre@tasman-geo.com
cc@dcpsp.mil@denver-co.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 & CR13
Project Number:
Samples Collected By: J. Conry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summary			Other
SS24R@11'	4/5/19	1210							X		X	1	
SS27@9'		1400										2	
SS28@11'		1405										3	
SS29@9'		1410										4	
SS30@9'		1430										5	
SS31@11'		1435										6	
SS32@9'		1440										7	
SS33@9'		1520										8	
SS34@11'		1535										9	
SS35@9'		1540										10	
SS36@9'													
SS37@9'													
SS38@9'													
SS39@9'													
SS40@9'													
SS41@9'													
SS42@9'													
SS43@9'													
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SS97@9'													
SS98@9'													
SS99@9'													
SS100@9'													

Relinquished By: James Conlyan

Relinquished By: _____

Date: 4/5/19

Date: _____

Time: 1700

Time: _____

Received By: [Signature]

Received By: _____

Date: 04/05/19

Date: _____

Time: 1705

Time: _____

Turnaround Time: _____

Same Day: ☒ 24 Hr ☐

48 Hr ☐ 72 Hr ☐

Standard ☐

140LD

Date Results Needed

Temp Received- 18.3°

Date Received- 4/5/19

Time Received- 1700

Time Date- 4/5/19

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Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

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1904132

page 2 of 2

ORIGINS
LABORATORY, INC

Client: Tasman Geosciences
Address: 6899 Pecos St
Denver, CO
Telephone Number: 303.396.7877
Email Address: brian.humphrey@tasman-geo.com
Project Manager: Brian Humphrey
Project Name: DCP CR42 & CR13
Project Number: J. Carrington
Samples Collected By: J. Carrington

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air		
SS3707	4/5/19	1550										1 HOLD
SS3608	4/5/19	1545										2 High Concentration
SS3707	4/5/19	1550										3 HOLD
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	<u>4/5/19</u>	<u>1700</u>	<u>[Signature]</u>	<u>6/15/19</u>	<u>1705</u>	24 Hr <input type="checkbox"/>
						Same Day <input checked="" type="checkbox"/>
						48 Hr <input type="checkbox"/>
						72 Hr <input type="checkbox"/>
						Standard <input type="checkbox"/>

Date Results Needed

Temp Received: 8.3

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211 | 1725 Elk Place

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y 90413Z

Client: Tasman
Client Project ID: DCP CR42 + CR13

Checklist Completed by: JG

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Date/time completed: 4 / 5 / 2019

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____ (Describe)

Cooler Number/Temperature: 1 / 18.3 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

4/5/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS24B@11'

4/5/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0505	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	98.0 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	71.3 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS27@9'

4/5/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0665	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	
Toluene	0.0730	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

104 % 70-130
98.8 % 70-130
100 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	65.1 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS28@11'

4/5/2019 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.103	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/07/2019	
Toluene	0.106	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	04/05/2019	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	63.2 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS29@9'

4/5/2019 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.272	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	
Toluene	0.131	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

105 % 70-130
97.3 % 70-130
100 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	79.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS30@9'

4/5/2019 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0835	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	
Toluene	0.0855	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

104 % 70-130
97.6 % 70-130
99.9 % 70-130

" " "
" " "
" " "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	85.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS31@11'

4/5/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.213	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	
Toluene	0.112	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

104 % 70-130
97.7 % 70-130
98.4 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	75.0 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS32@9'

4/5/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	71.1 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS33@9'

4/5/2019 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y904132-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	62.9 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS34@11'

4/5/2019 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0503	JTD	04/05/2019	04/05/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	98.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	69.3 %	50-150			"		"	"	

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS35@9'

4/5/2019 3:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.270	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/08/2019	
Toluene	0.656	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	0.106	0.0500	"	"	"	JTD	"	"	
Xylenes, total	0.864	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	17.0	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0801	JTD	04/08/2019	04/08/2019	U
Surrogate: o-Terphenyl	66.1 %	50-150			"	"	"		

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS36@8'

4/5/2019 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-11 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	36.7	0.500	mg/kg	250	B9D0503	JTD	04/05/2019	04/05/2019
Toluene	60.6	0.500	"	"	"	JTD	"	"
Ethylbenzene	6.22	0.500	"	"	"	JTD	"	"
Xylenes, total	43.5	0.500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	2190	50.0	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	640	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019
Surrogate: o-Terphenyl	94.0 %	50-150	"	"	"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

SS37@7'

4/5/2019 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904132-12 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.331	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/08/2019	
Toluene	0.244	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

99.4 % 70-130
102 % 70-130
99.1 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0801	JTD	04/08/2019	04/08/2019	U
Surrogate: o-Terphenyl	70.5 %	50-150			"	"	"	"	

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0503 - EPA 5030 (soil)										
Blank (B9D0503-BLK1)					Prepared: 04/05/2019 Analyzed: 04/05/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0503 - EPA 5030 (soil)

LCS (B9D0503-BS1)

Prepared: 04/05/2019 Analyzed: 04/05/2019

Benzene	0.106	0.00200	mg/kg	0.100		106	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.209	0.00400	"	0.200		105	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0503 - EPA 5030 (soil)

Matrix Spike (B9D0503-MS1)		Source: Y904100-01			Prepared: 04/05/2019 Analyzed: 04/05/2019					
Benzene	2.57	0.0500	mg/kg	2.50	ND	103	70-130			
Toluene	2.50	0.0500	"	2.50	ND	100	70-130			
Ethylbenzene	2.53	0.0500	"	2.50	ND	101	70-130			
m,p-Xylene	5.12	0.100	"	5.00	ND	102	70-130			
o-Xylene	2.56	0.0500	"	2.50	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0503 - EPA 5030 (soil)

Matrix Spike Dup (B9D0503-MSD1)		Source: Y904100-01			Prepared: 04/05/2019 Analyzed: 04/05/2019					
Benzene	2.36	0.0500	mg/kg	2.50	ND	94.5	70-130	8.41	20	
Toluene	2.28	0.0500	"	2.50	ND	91.2	70-130	9.34	20	
Ethylbenzene	2.32	0.0500	"	2.50	ND	92.9	70-130	8.67	20	
m,p-Xylene	4.66	0.100	"	5.00	ND	93.1	70-130	9.48	20	
o-Xylene	2.34	0.0500	"	2.50	ND	93.7	70-130	8.64	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0701 - EPA 5030 (soil)

Blank (B9D0701-BLK1)

Prepared: 04/07/2019 Analyzed: 04/07/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0701 - EPA 5030 (soil)										
LCS (B9D0701-BS1)					Prepared: 04/07/2019 Analyzed: 04/07/2019					
Benzene	0.0886	0.00200	mg/kg	0.100		88.6	70-130			
Toluene	0.0837	0.00200	"	0.100		83.7	70-130			
Ethylbenzene	0.0831	0.00200	"	0.100		83.1	70-130			
m,p-Xylene	0.169	0.00400	"	0.200		84.6	70-130			
o-Xylene	0.0863	0.00200	"	0.100		86.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0701 - EPA 5030 (soil)

Matrix Spike (B9D0701-MS1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Benzene	2.58	0.0500	mg/kg	2.50	ND	103	70-130			
Toluene	2.46	0.0500	"	2.50	ND	98.5	70-130			
Ethylbenzene	2.50	0.0500	"	2.50	ND	99.9	70-130			
m,p-Xylene	5.06	0.100	"	5.00	ND	101	70-130			
o-Xylene	2.52	0.0500	"	2.50	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0701 - EPA 5030 (soil)

Matrix Spike Dup (B9D0701-MSD1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Benzene	2.74	0.0500	mg/kg	2.50	ND	110	70-130	5.80	20	
Toluene	2.61	0.0500	"	2.50	ND	104	70-130	5.64	20	
Ethylbenzene	2.64	0.0500	"	2.50	ND	106	70-130	5.68	20	
m,p-Xylene	5.42	0.100	"	5.00	ND	108	70-130	6.79	20	
o-Xylene	2.68	0.0500	"	2.50	ND	107	70-130	6.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

Blank (B9D0702-BLK1)

Prepared: 04/07/2019 Analyzed: 04/07/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	33		"	50.0		66.8	50-150			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

LCS (B9D0702-BS1)

Prepared: 04/07/2019 Analyzed: 04/07/2019

Diesel (C10-C28)	764	50.0	mg/kg	1000		76.4	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.7	50-150			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

Matrix Spike (B9D0702-MS1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Diesel (C10-C28)	796	50.0	mg/kg	1000	21.1	77.5	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

Matrix Spike Dup (B9D0702-MSD1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Diesel (C10-C28)	736	50.0	mg/kg	1000	21.1	71.5	70-130	7.88	35	
Surrogate: o-Terphenyl	39		"	50.0		78.1	50-150			

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0801 - EPA 3550B

Blank (B9D0801-BLK1)

Prepared: 04/08/2019 Analyzed: 04/08/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	35		"	50.0		69.9	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0801 - EPA 3550B

LCS (B9D0801-BS1)

Prepared: 04/08/2019 Analyzed: 04/08/2019

Diesel (C10-C28)	737	50.0	mg/kg	1000		73.7	70-130			
Surrogate: o-Terphenyl	38		"	50.0		76.7	50-150			

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9D0801 - EPA 3550B

Matrix Spike (B9D0801-MS1)		Source: Y904132-12			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	769	50.0	mg/kg	1000	25.2	74.4	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.3	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9D0801 - EPA 3550B

Matrix Spike Dup (B9D0801-MSD1)		Source: Y904132-12			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	738	50.0	mg/kg	1000	25.2	71.2	70-130	4.19	35	
Surrogate: o-Terphenyl	39		"	50.0		78.9	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Appendix B

Lithologic Soil Boring Logs



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 1"

DATE STARTED - COMPLETED: 4/8/2019 - 4/8/2019

TOTAL WELL DEPTH (FT. BGS): 14

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH05

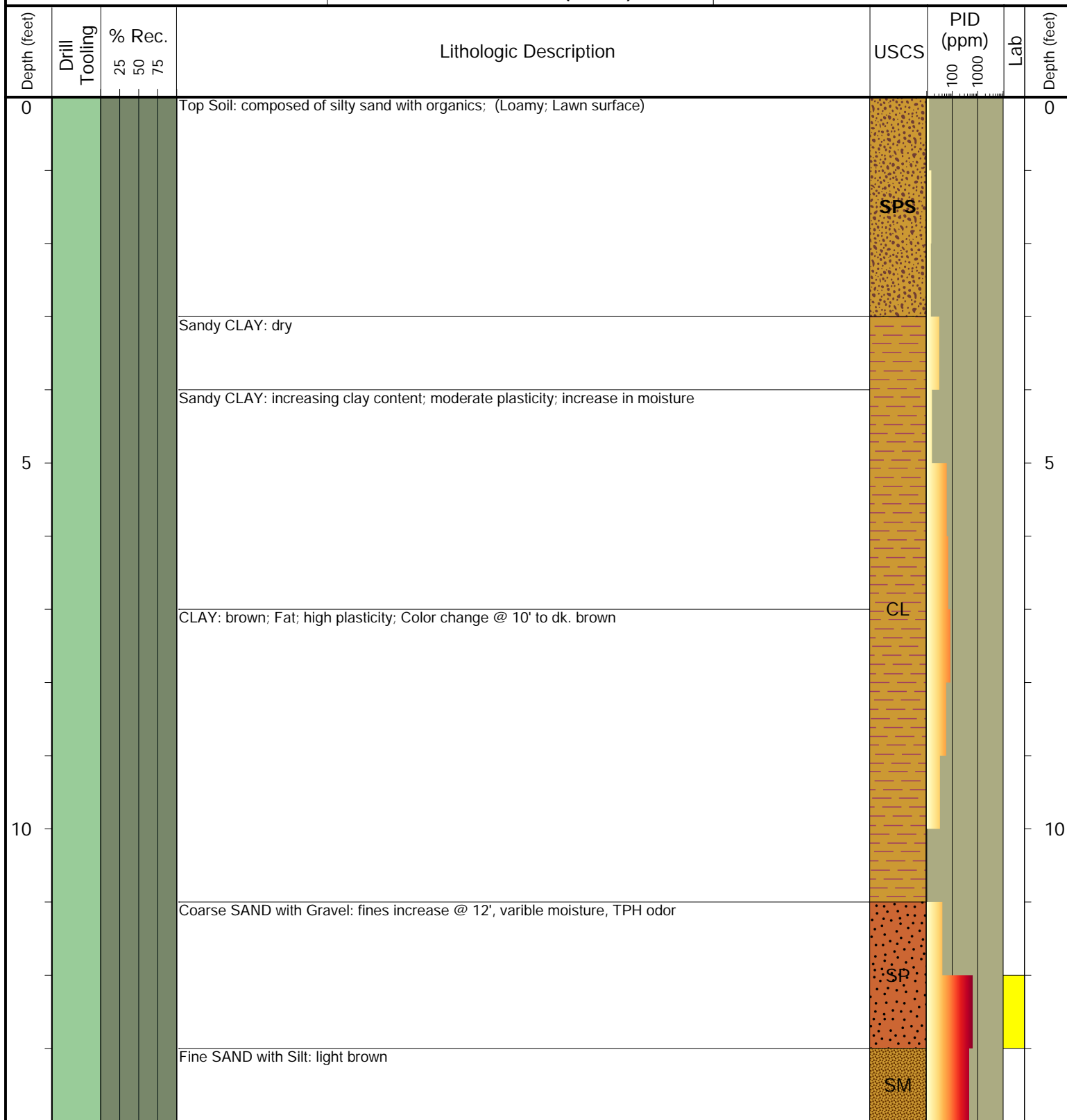
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460186.26621

EASTING (UTM ZONE 13N): 504966.507663

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 1"

DATE STARTED - COMPLETED: 4/8/2019 - 4/8/2019

TOTAL WELL DEPTH (FT. BGS): 14

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH06

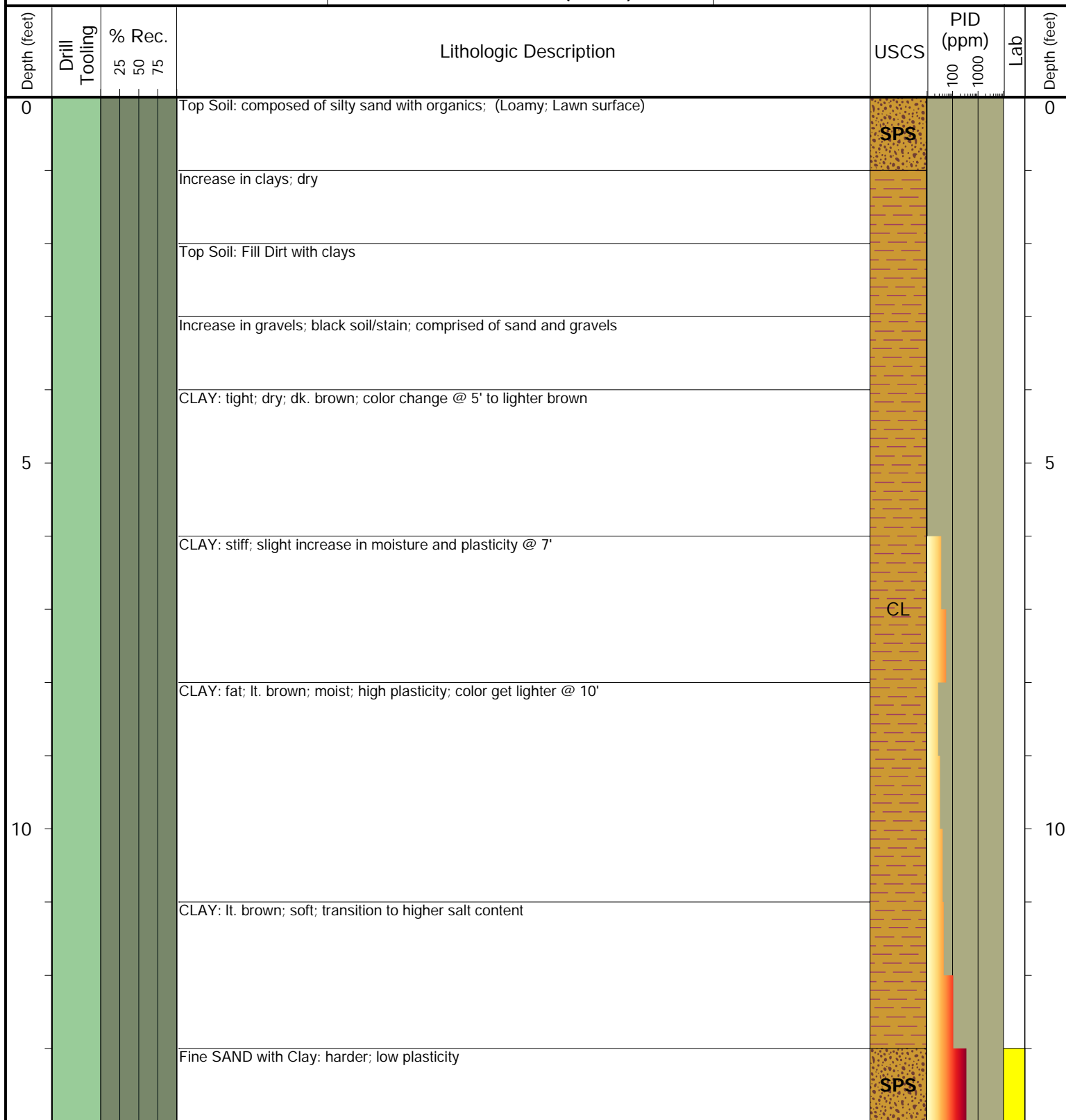
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460197.02831

EASTING (UTM ZONE 13N): 504975.312676

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



DEPTH WATER ENCOUNTERED (FT. BGS): -

ABANDONMENT METHOD: Bentonite





6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 1"

DATE STARTED - COMPLETED: 4/8/2019 - 4/8/2019

TOTAL WELL DEPTH (FT. BGS): 14

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH08

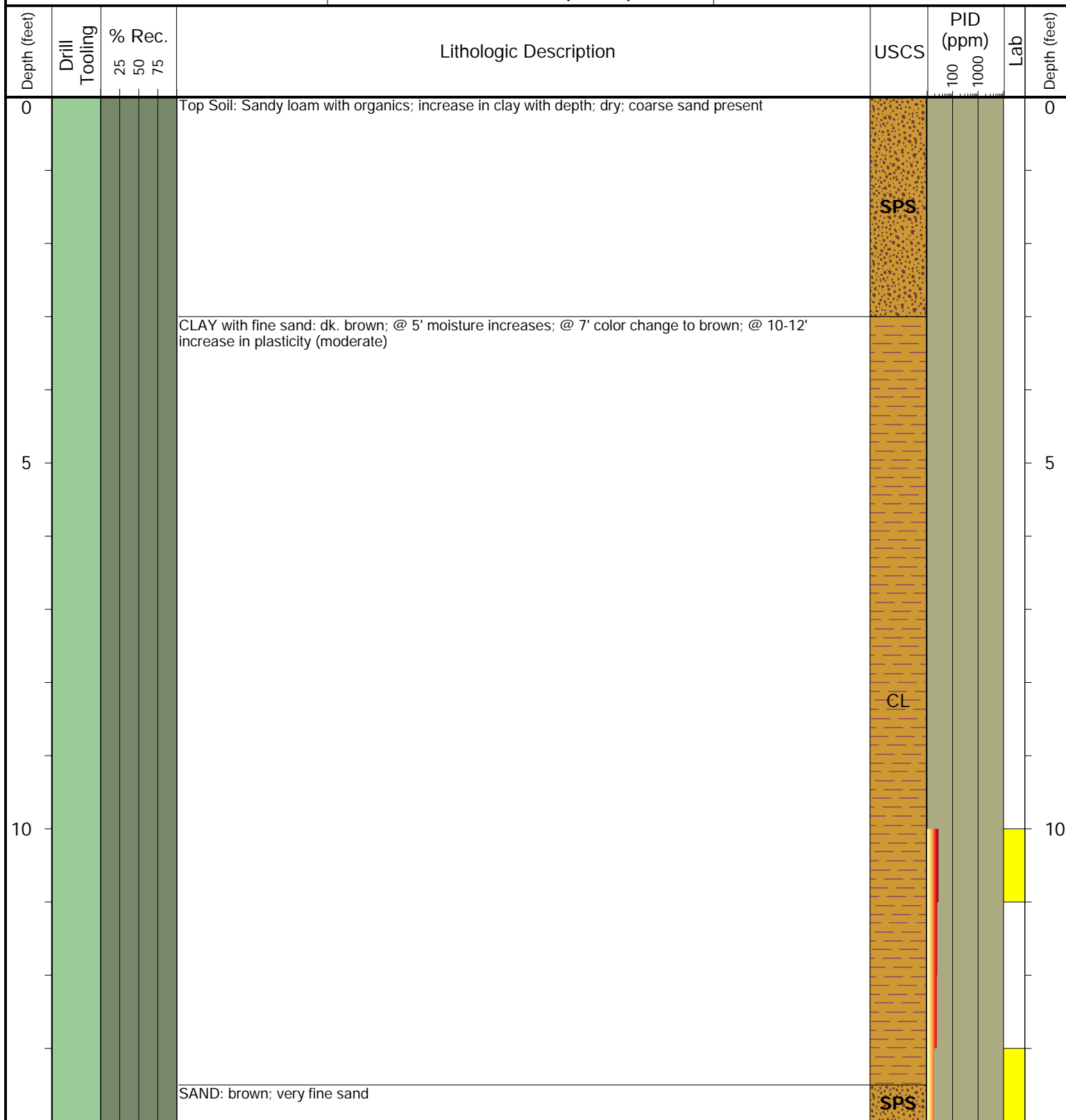
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460207.63305

EASTING (UTM ZONE 13N): 504973.215693

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 1"

DATE STARTED - COMPLETED: 4/8/2019 - 4/8/2019

TOTAL WELL DEPTH (FT. BGS): 14

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH09

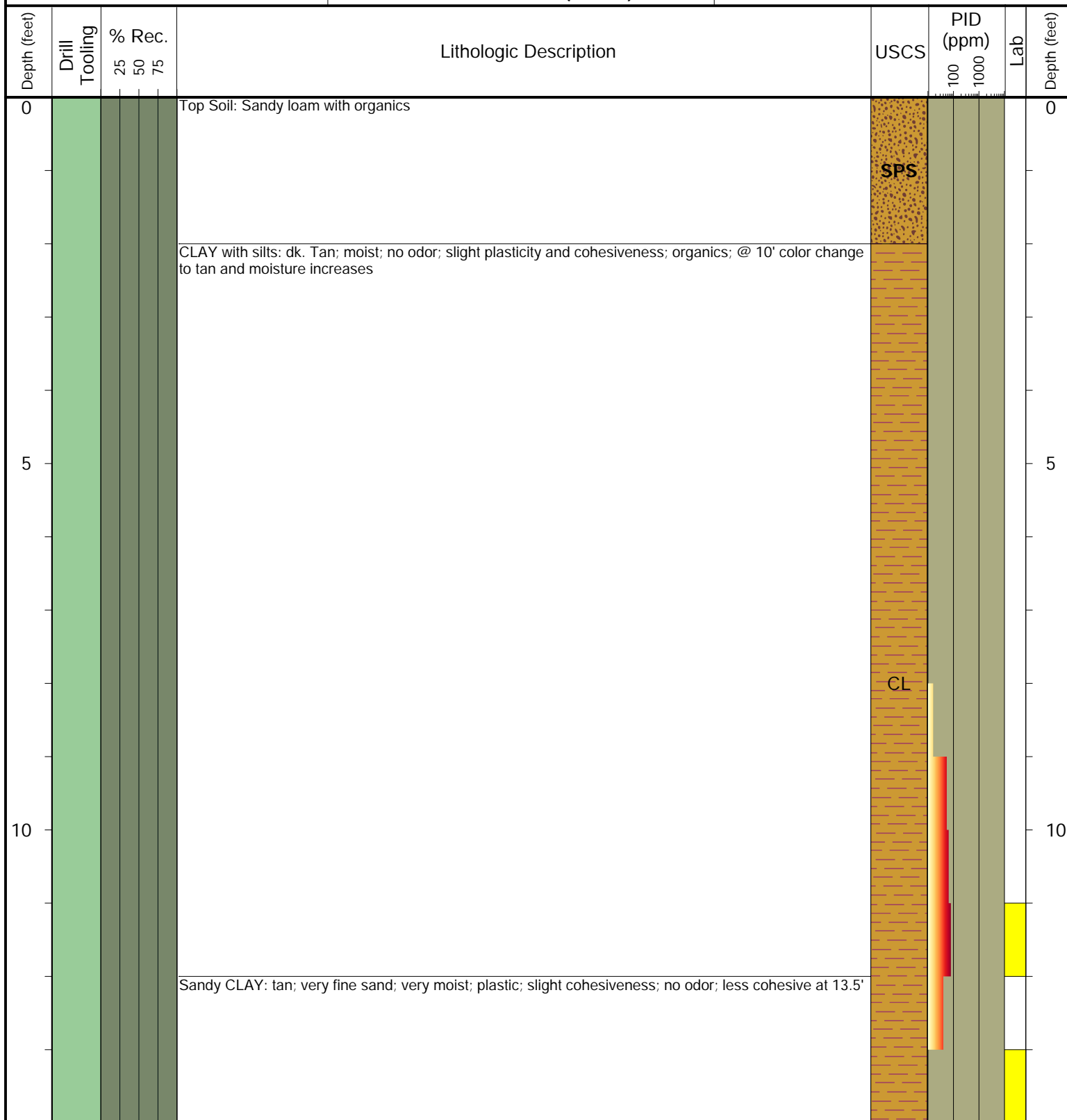
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460211.91827

EASTING (UTM ZONE 13N): 504975.464862

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 1"

DATE STARTED - COMPLETED: 4/8/2019 - 4/8/2019

TOTAL WELL DEPTH (FT. BGS): 13

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH10

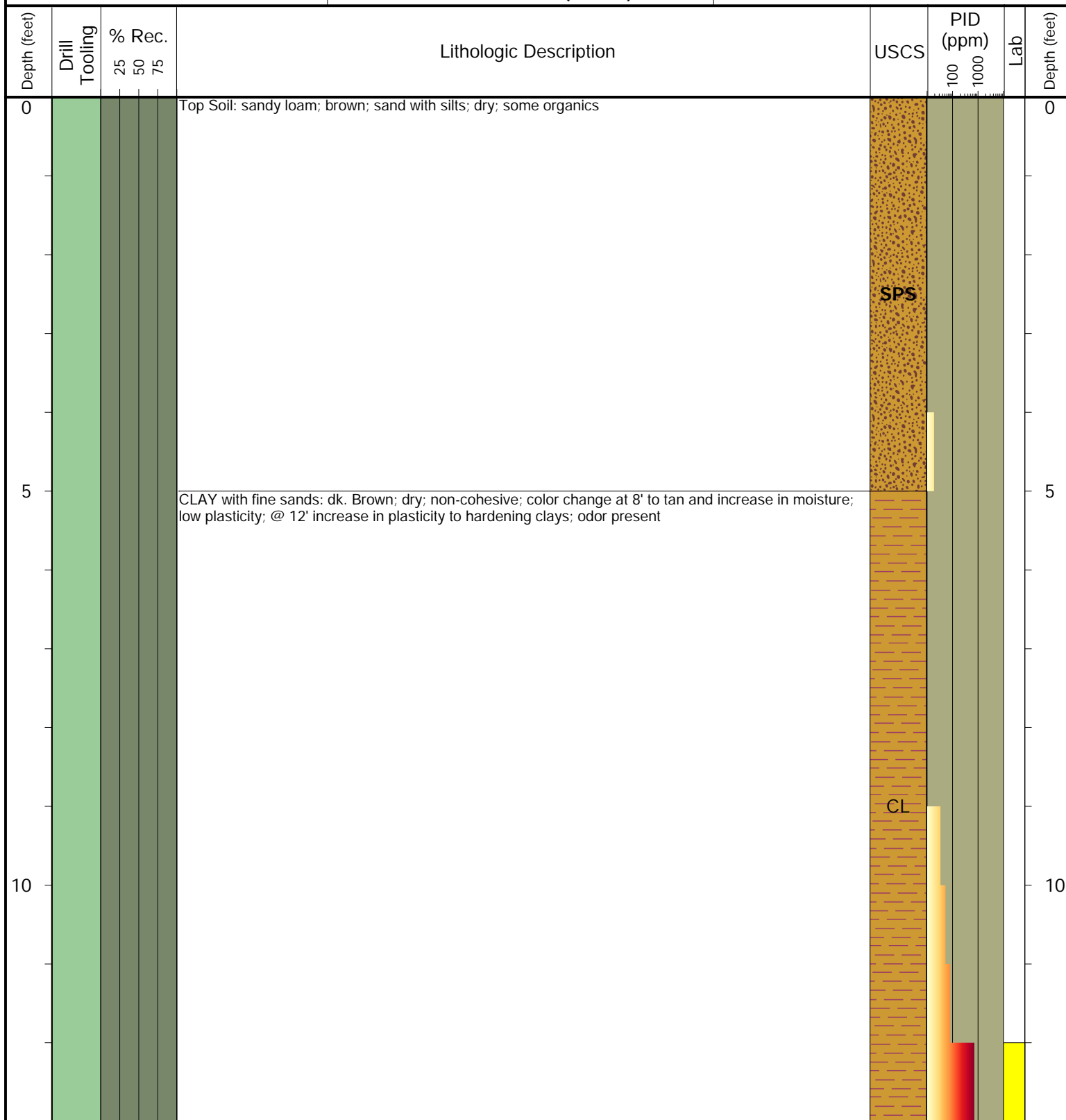
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460204.11487

EASTING (UTM ZONE 13N): 504965.640523

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 1"

DATE STARTED - COMPLETED: 4/8/2019 - 4/8/2019

TOTAL WELL DEPTH (FT. BGS): 14

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH11

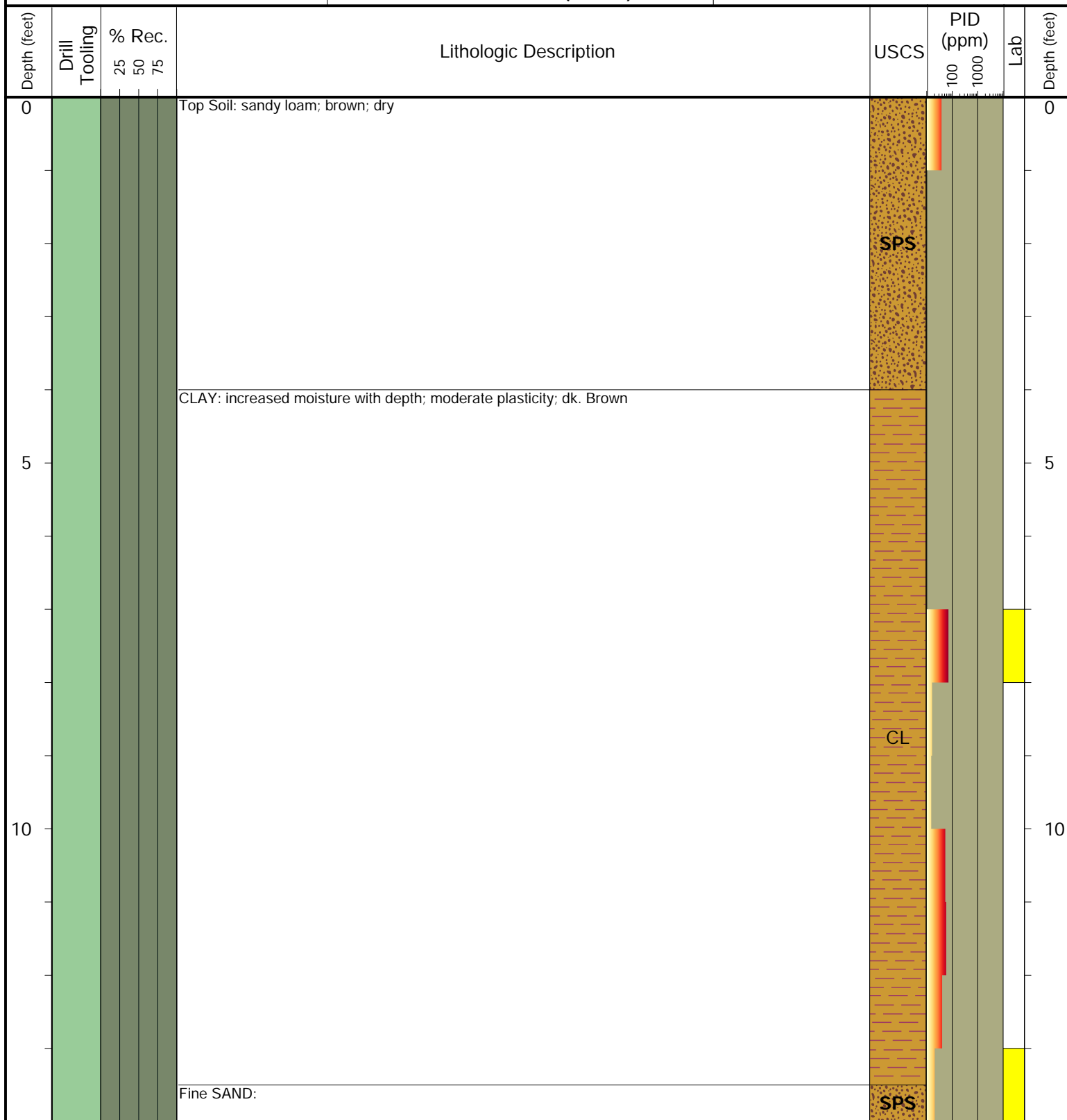
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460214.83675

EASTING (UTM ZONE 13N): 504965.593144

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Hand Augur

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/9/2019 - 4/9/2019

TOTAL WELL DEPTH (FT. BGS): 13

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH12-HA

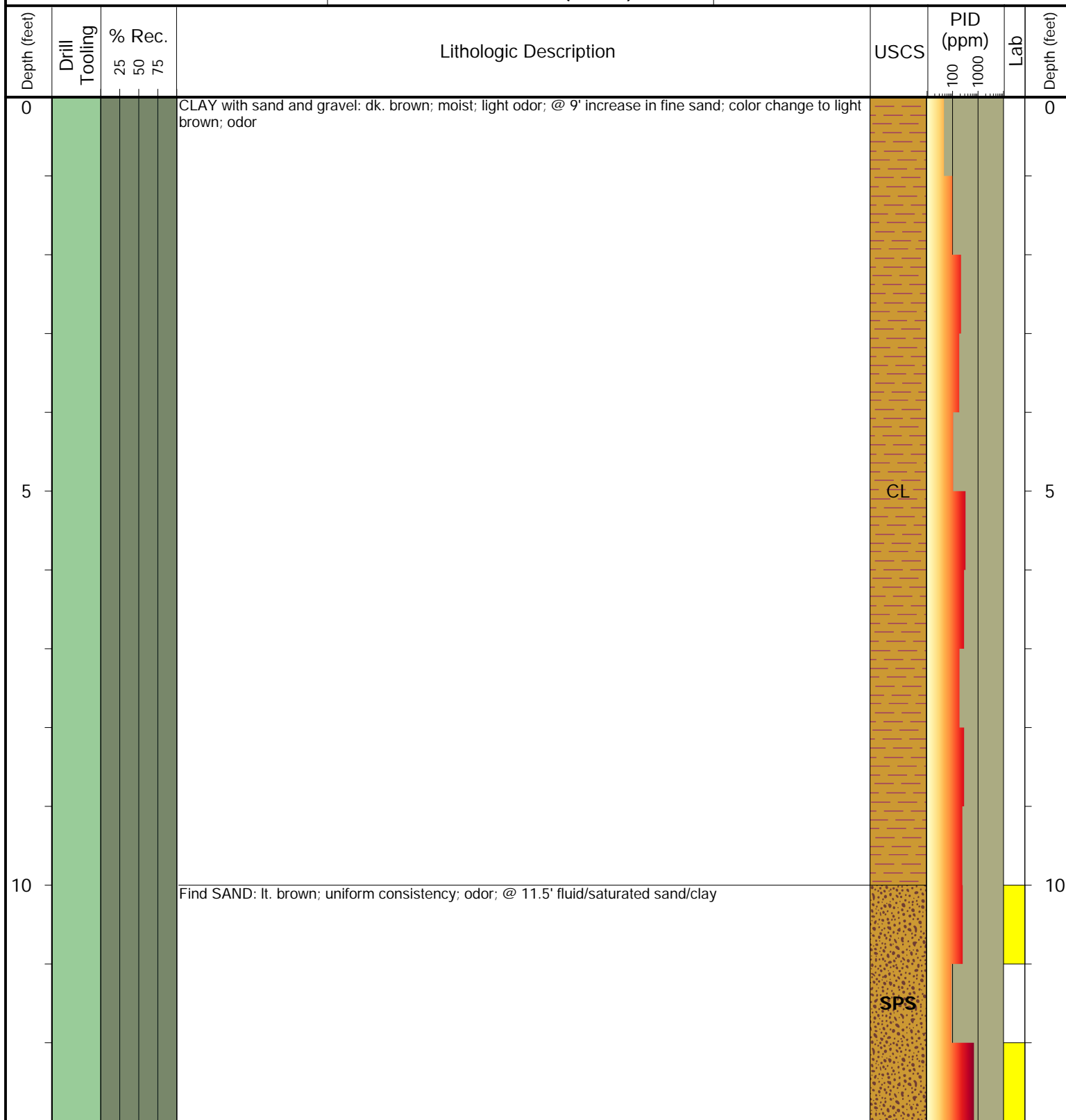
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460163.64309

EASTING (UTM ZONE 13N): 504937.647697

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Hand Augur

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/9/2019 - 4/9/2019

TOTAL WELL DEPTH (FT. BGS): 13.5

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH13-HA

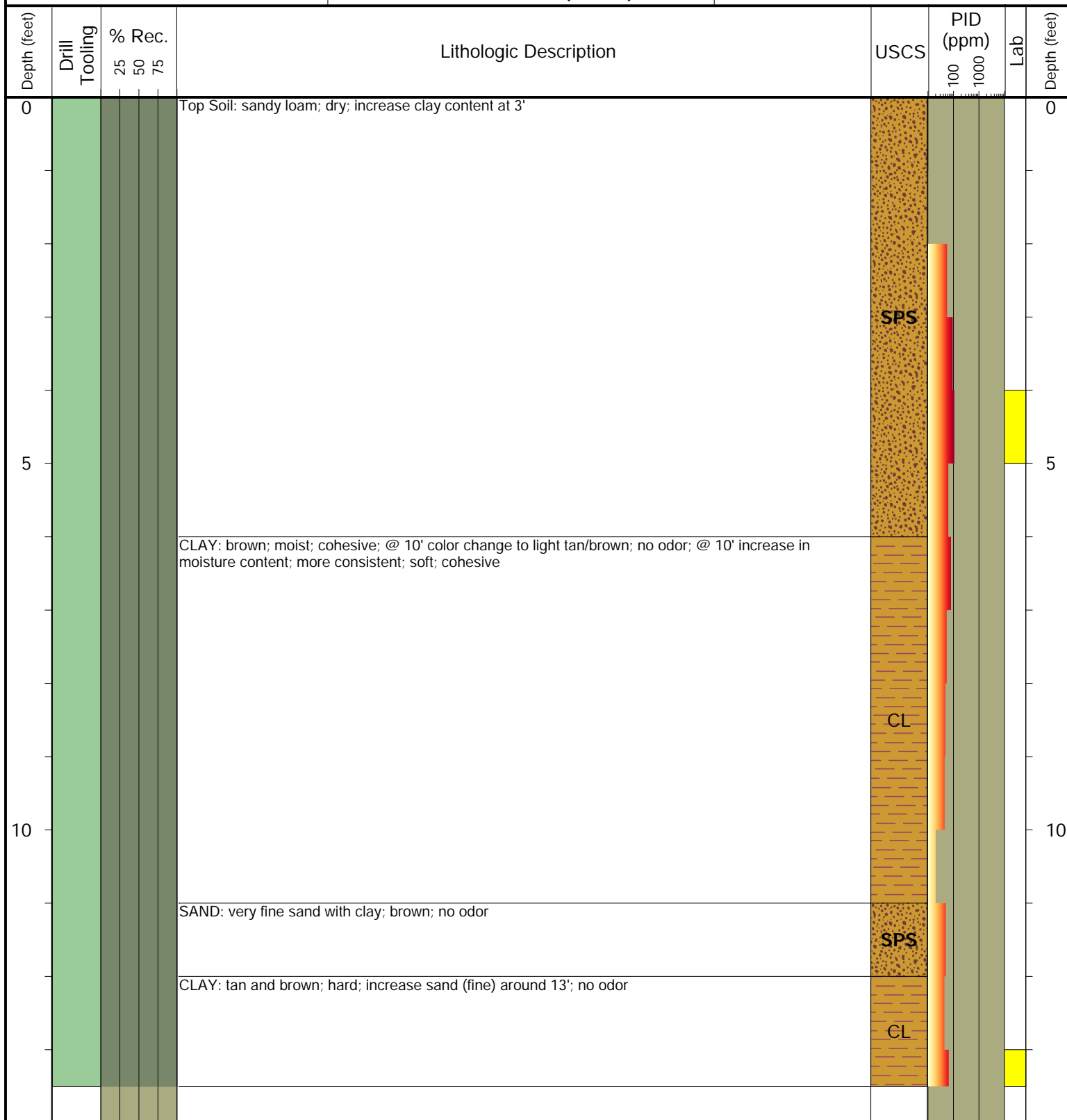
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460156.71441

EASTING (UTM ZONE 13N): 504931.795644

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 75

DRILL BIT SIZE (INCHES): 6"

DATE STARTED - COMPLETED: 4/22/2019 - 4/22/2019

TOTAL WELL DEPTH (FT. BGS): 24

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH12

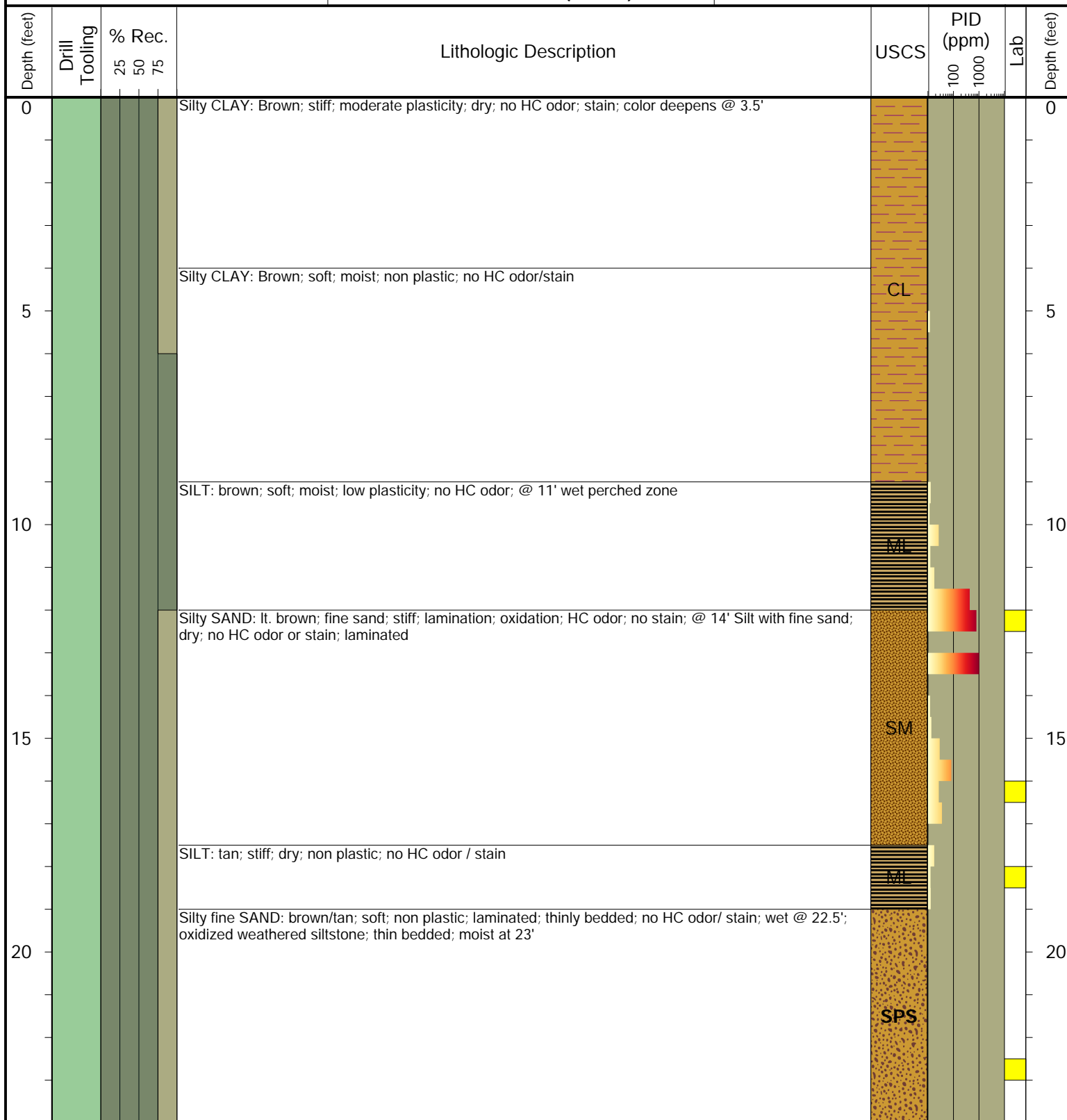
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460197.60866

EASTING (UTM ZONE 13N): 504976.772092

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B.Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 75

DRILL BIT SIZE (INCHES): 6

DATE STARTED - COMPLETED: 4/22/19 - 4/22/19

TOTAL WELL DEPTH (FT. BGS): 17

DEPTH TO WATER (FT. BGS): 14.5

CR42 and CR13

BORING / WELL ID: BH13 / MW01

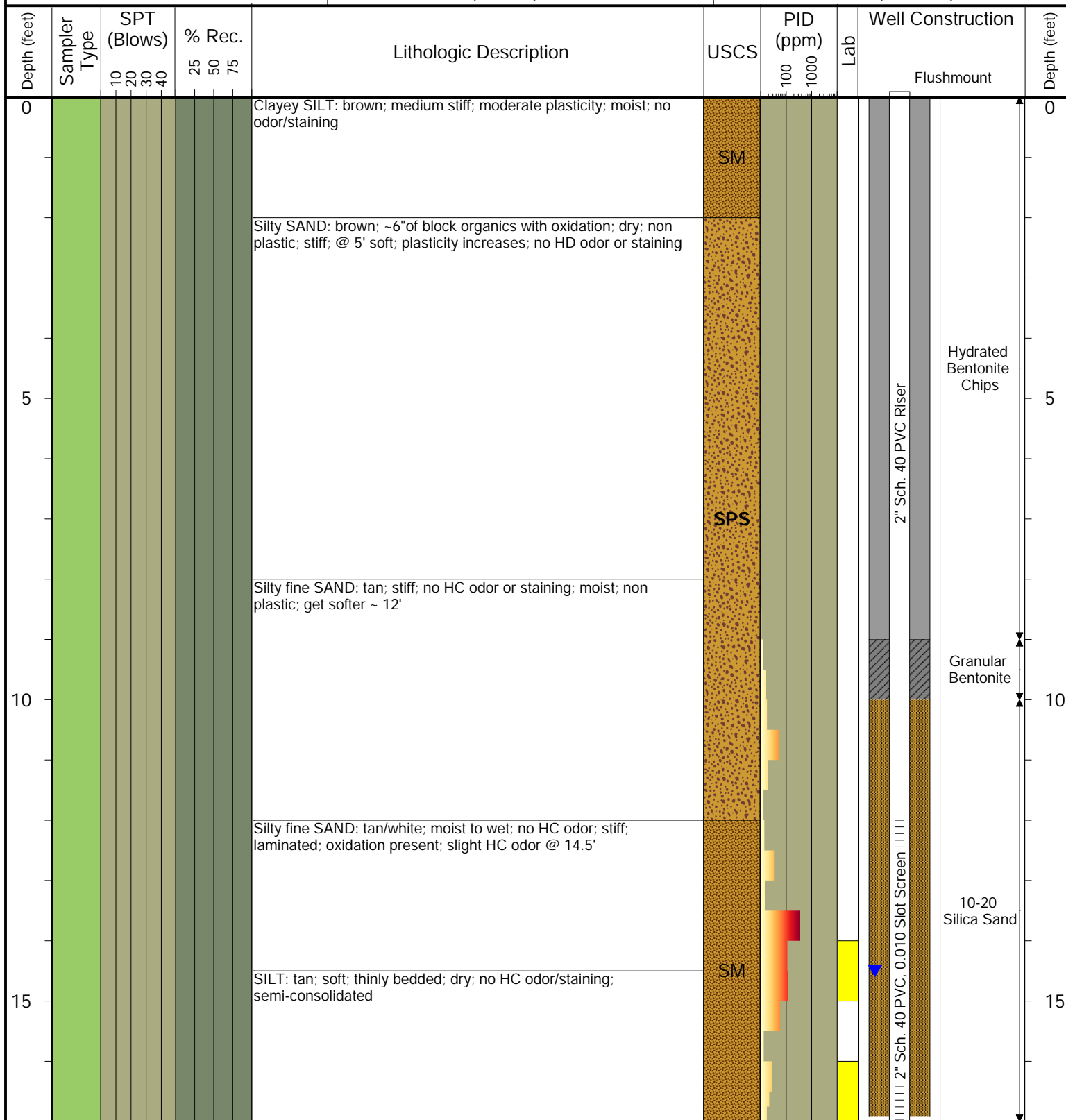
LOCATION: Weld County, Colorado

LATITUDE: 40.29231035

LONGITUDE: -104.94145

CASING ELEVATION (FT. AMSL): 4994.44

GROUND ELEVATION (FT. AMSL): 4994.5



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B.Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 75

DRILL BIT SIZE (INCHES): 6

DATE STARTED - COMPLETED: 4/22/19 - 4/22/19

TOTAL WELL DEPTH (FT. BGS): 18

DEPTH TO WATER (FT. BGS): 13.34

CR42 and CR13

BORING / WELL ID: BH14 / MW02

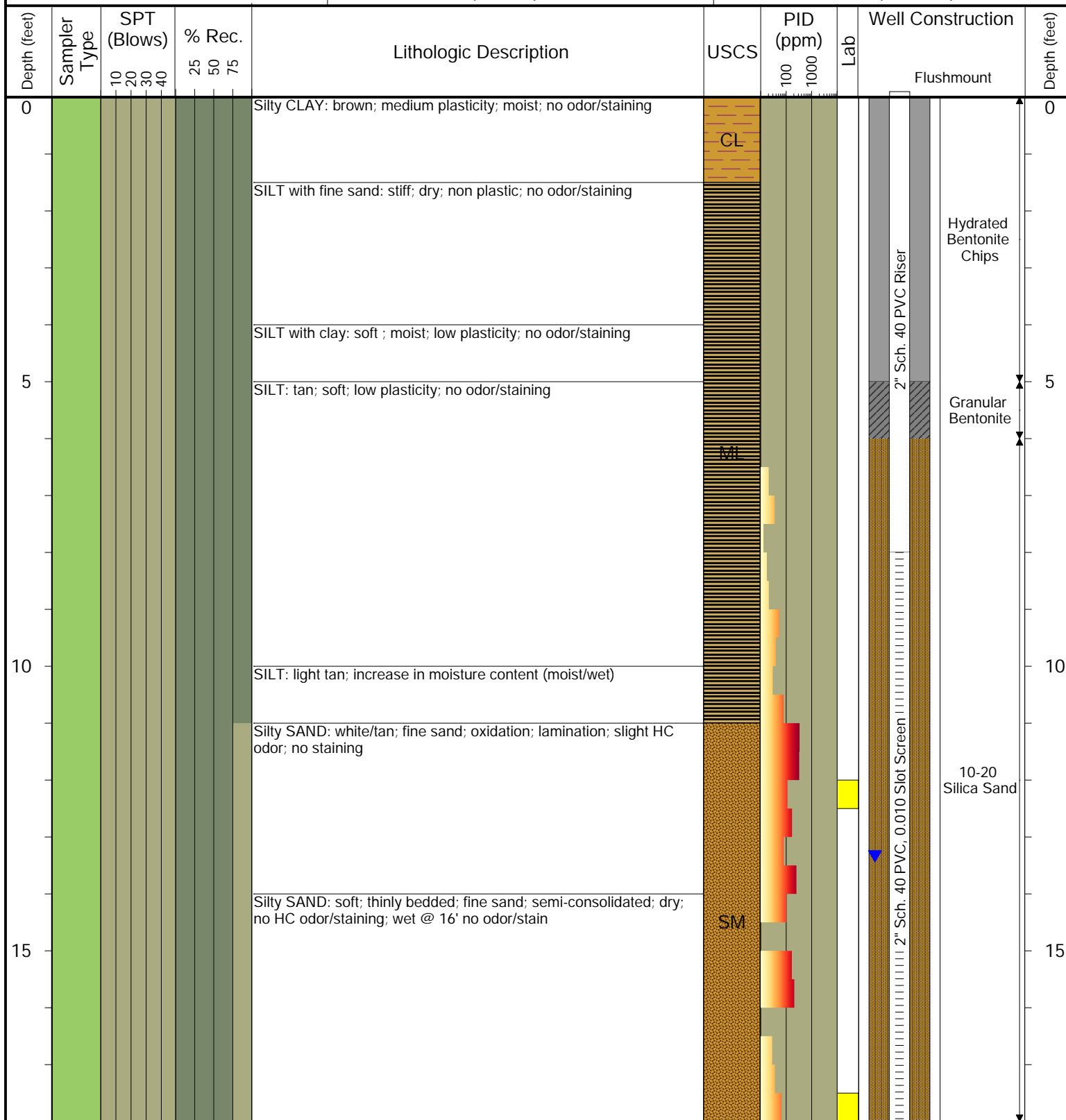
LOCATION: Weld County, Colorado

LATITUDE: 40.2922331

LONGITUDE: -104.9415211

CASING ELEVATION (FT. AMSL): 4993.5

GROUND ELEVATION (FT. AMSL): 4992.54



Drilling / Sample Method:

Solid Stem Auger
Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B.Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 75

DRILL BIT SIZE (INCHES): 6

DATE STARTED - COMPLETED: 4/22/19 - 4/22/19

TOTAL WELL DEPTH (FT. BGS): 16

DEPTH TO WATER (FT. BGS): 11.11

CR42 and CR13

BORING / WELL ID: BH15 / MW03

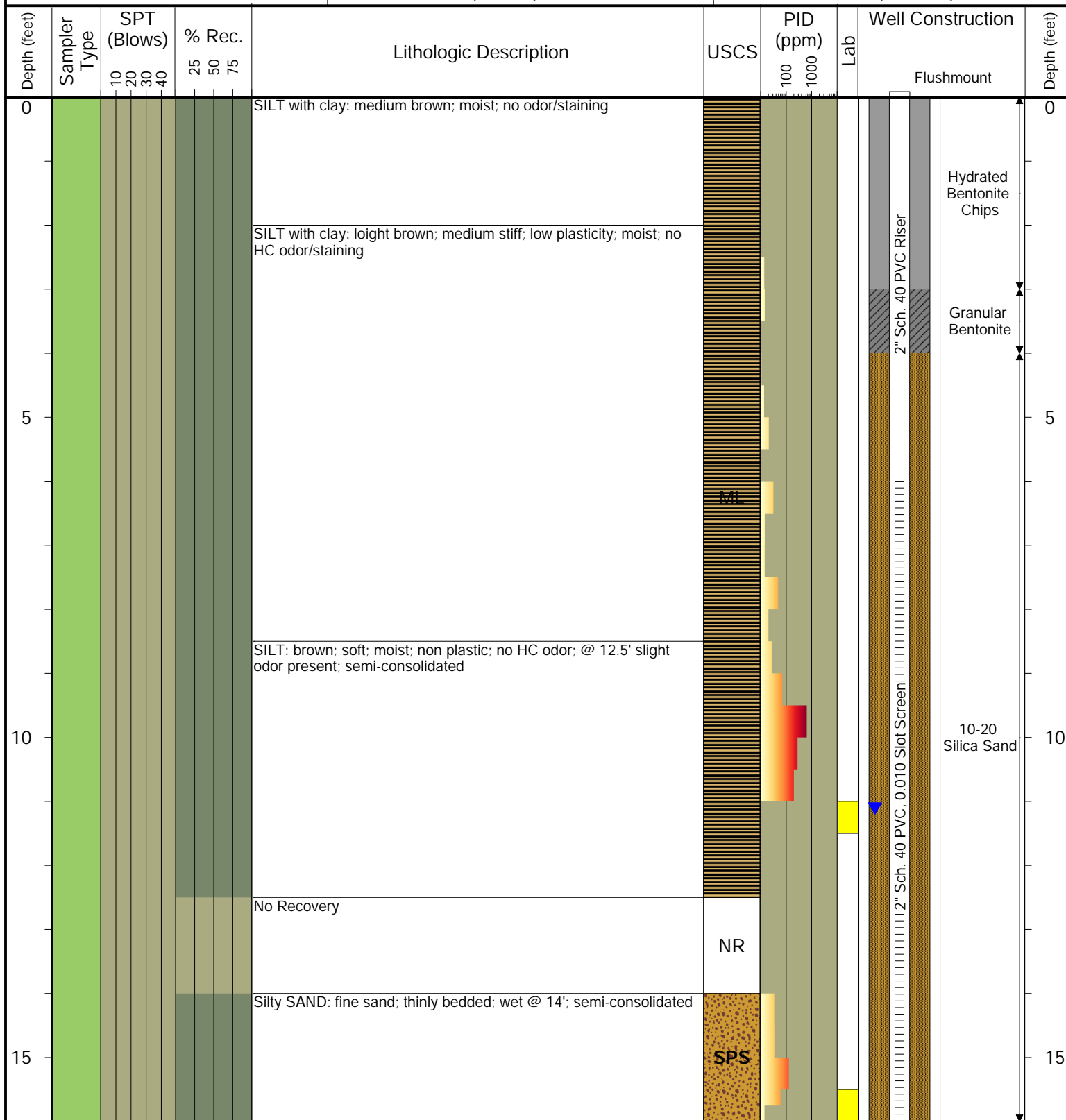
LOCATION: Weld County, Colorado

LATITUDE: 40.29203705

LONGITUDE: -104.9415106

CASING ELEVATION (FT. AMSL): 4992.6

GROUND ELEVATION (FT. AMSL): 4993.04



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/23/2019 - 4/23/2019

TOTAL WELL DEPTH (FT. BGS): 10.5

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH17

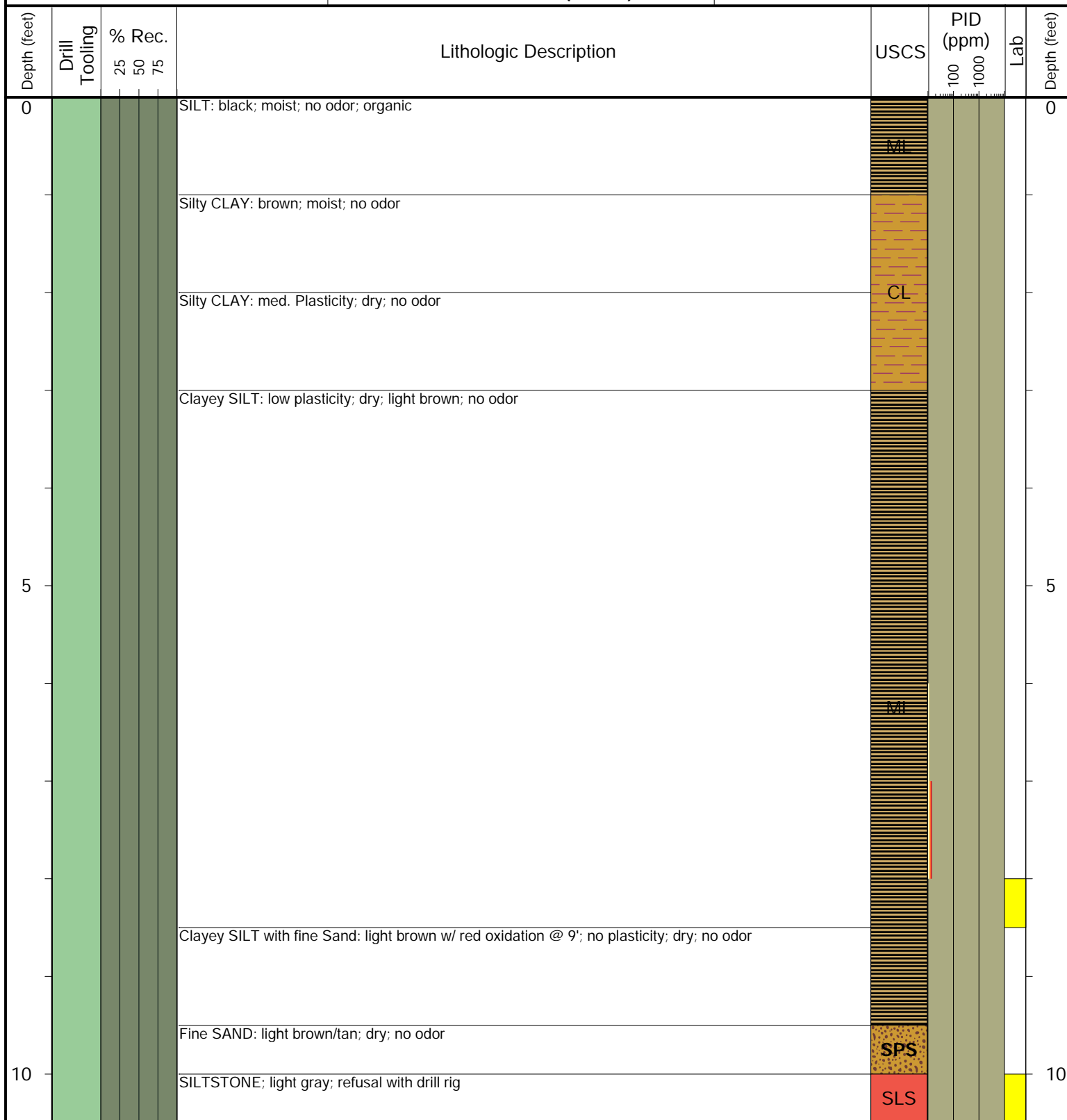
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460187.48555

EASTING (UTM ZONE 13N): 504913.39239

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 75

DRILL BIT SIZE (INCHES): 6

DATE STARTED - COMPLETED: 4/23/19 - 4/23/19

TOTAL WELL DEPTH (FT. BGS): 16

DEPTH TO WATER (FT. BGS): 13.1

CR42 and CR13

BORING / WELL ID: BH18 / MW05

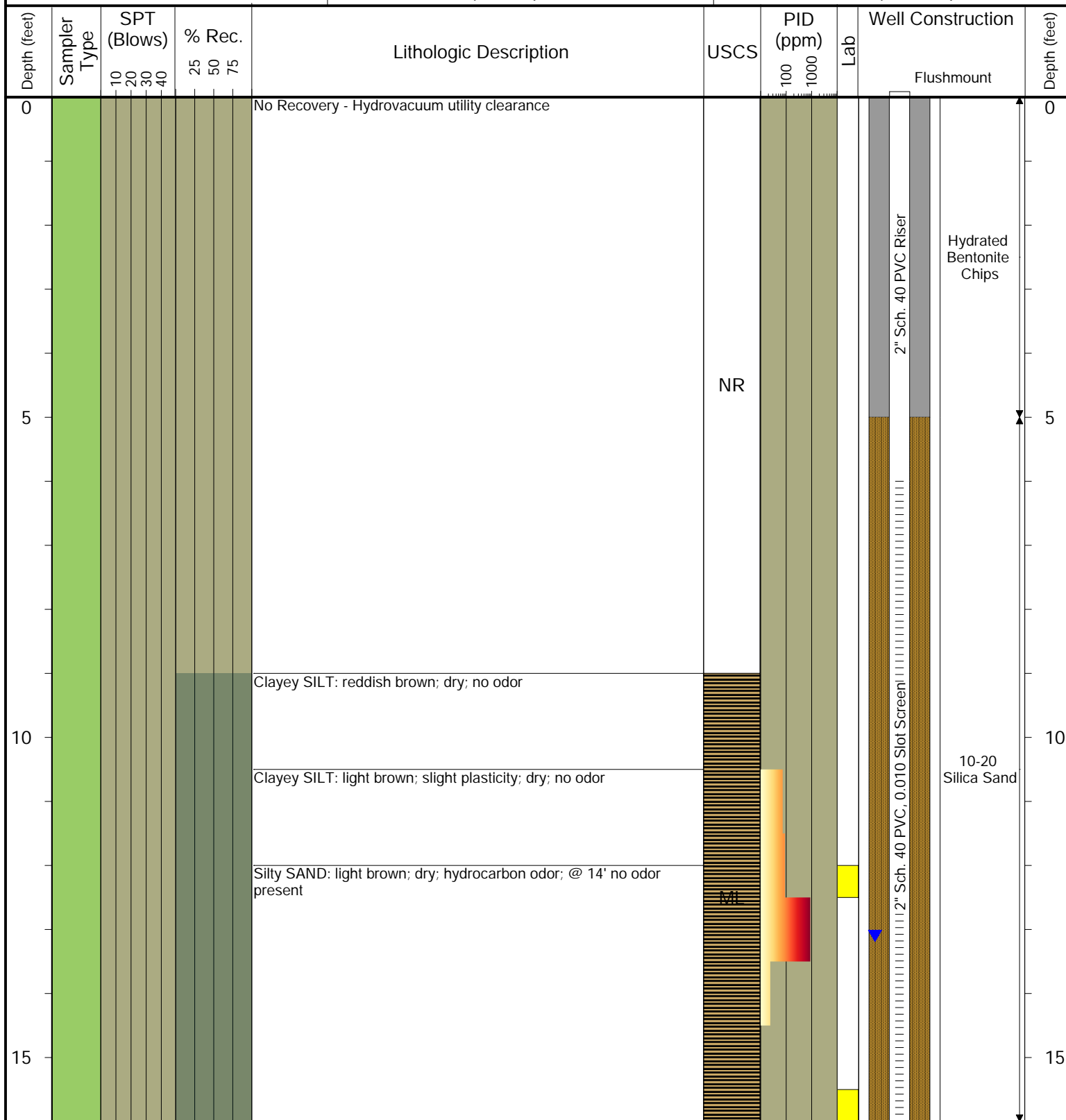
LOCATION: Weld County, Colorado

LATITUDE: 40.29223628

LONGITUDE: -104.9414506

CASING ELEVATION (FT. AMSL): 4993.36

GROUND ELEVATION (FT. AMSL): 4993.66



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/23/2019 - 4/23/2019

TOTAL WELL DEPTH (FT. BGS): 12

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH19

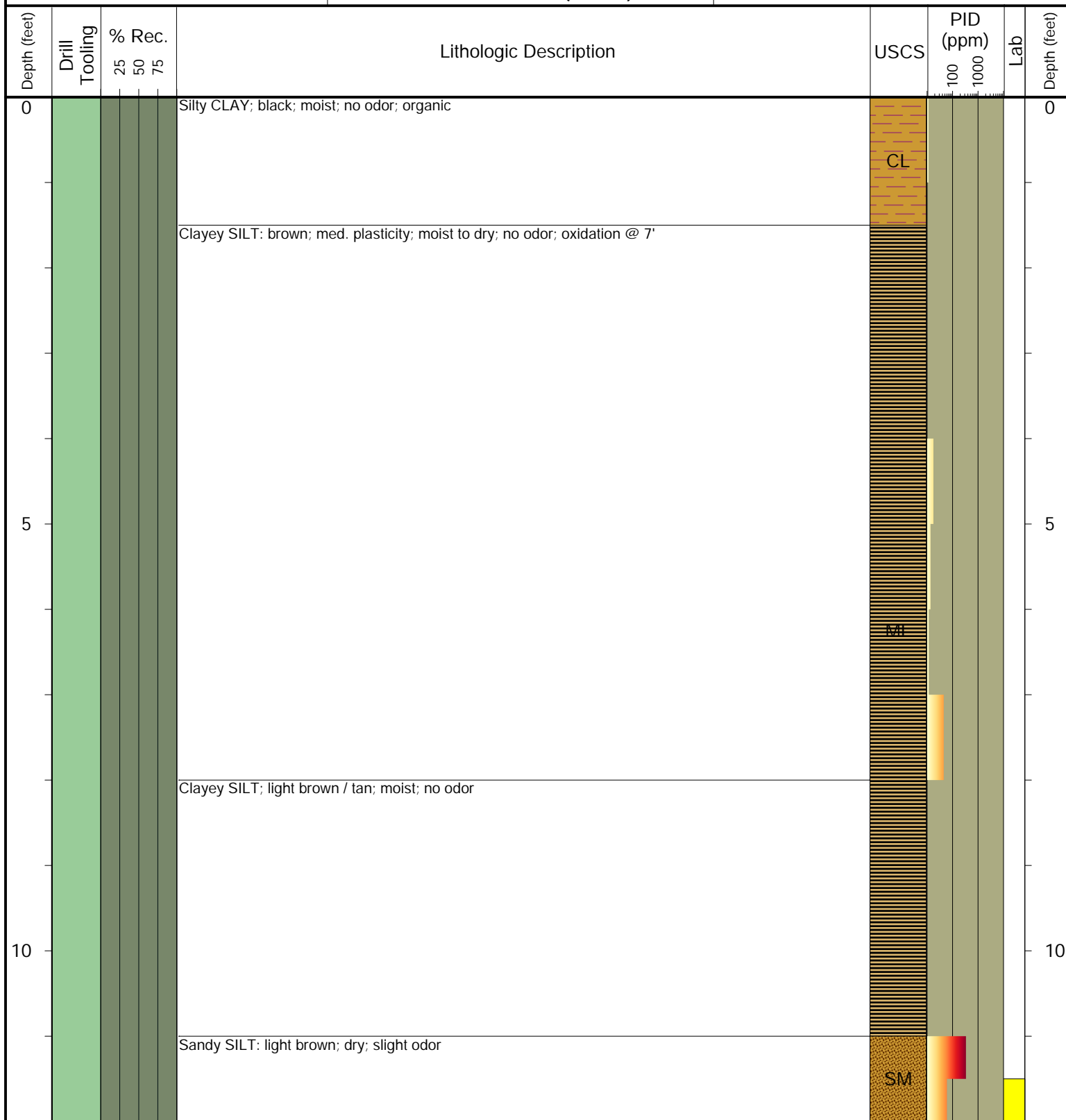
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460187.7221

EASTING (UTM ZONE 13N): 504921.061379

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/23/2019 - 4/23/2019

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH20

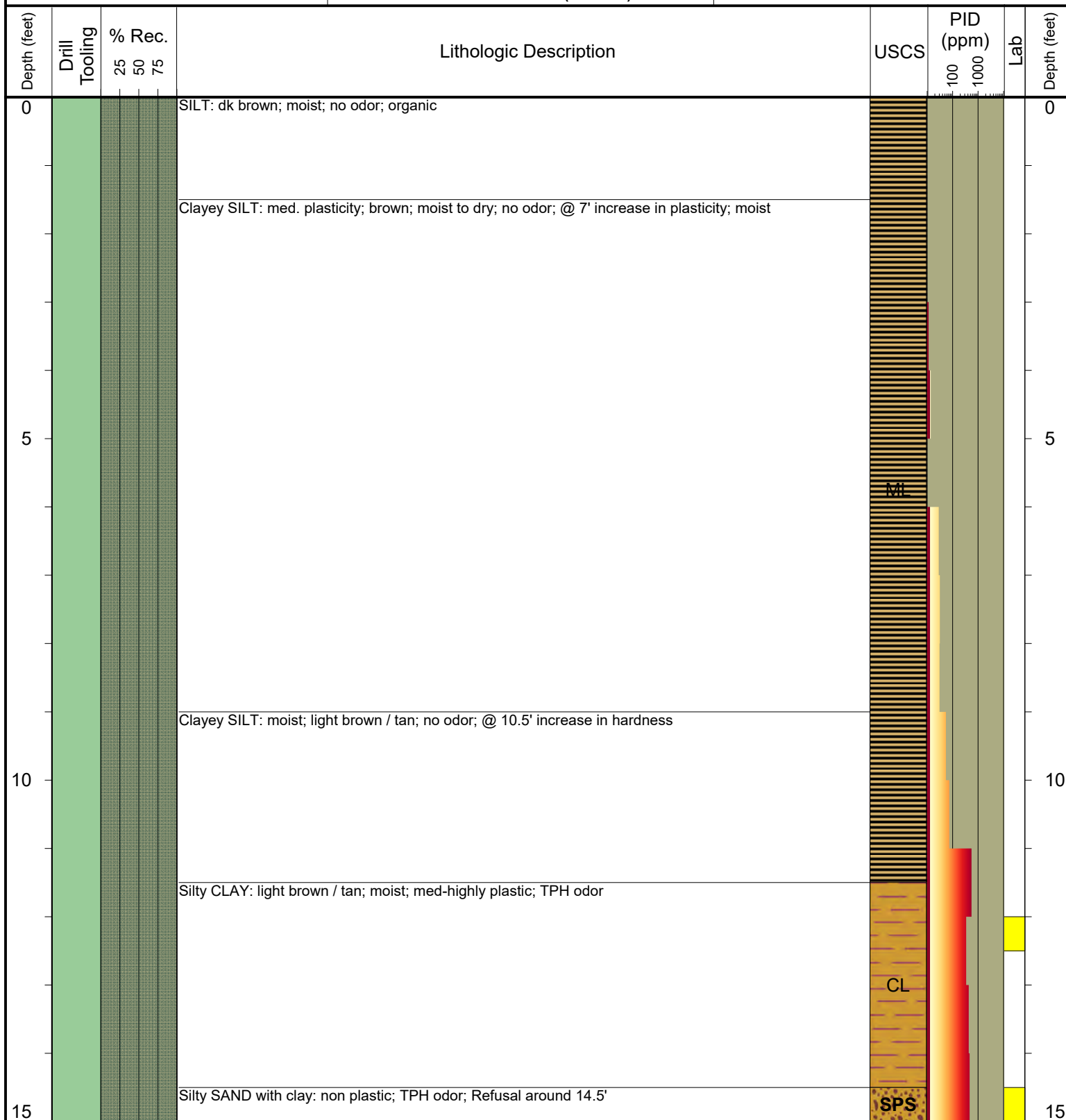
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460208.33026

EASTING (UTM ZONE 13N): 504935.628224

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/23/2019 - 4/23/2019

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH21

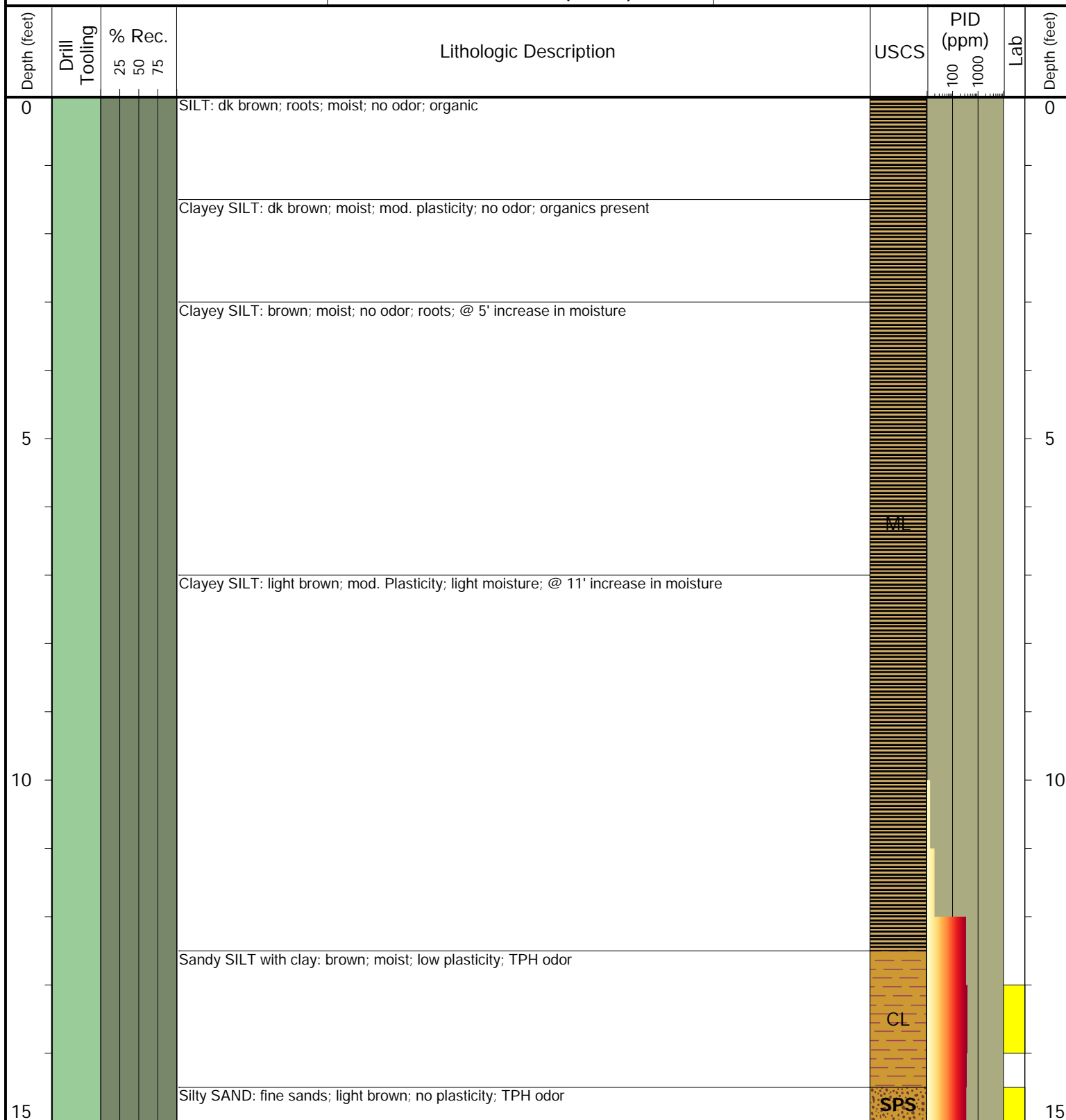
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460217.58547

EASTING (UTM ZONE 13N): 504936.109998

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 75

DRILL BIT SIZE (INCHES): 6

DATE STARTED - COMPLETED: 4/23/19 - 4/23/19

TOTAL WELL DEPTH (FT. BGS): 11

DEPTH TO WATER (FT. BGS): DRY

CR42 and CR13

BORING / WELL ID: BH22 / MW06

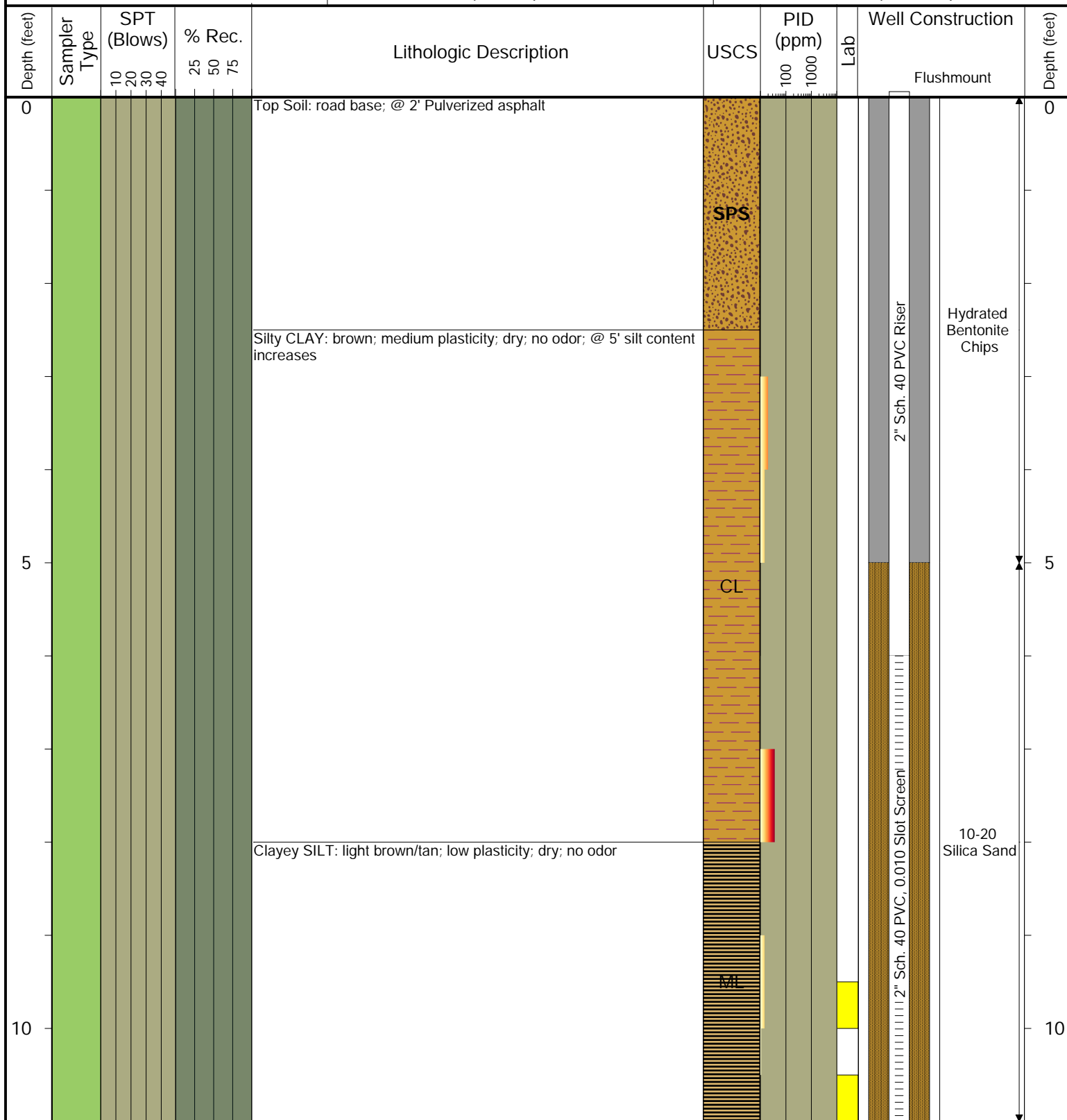
LOCATION: Weld County, Colorado

LATITUDE: 40.29221727

LONGITUDE: -104.9411957

CASING ELEVATION (FT. AMSL): 4991.14

GROUND ELEVATION (FT. AMSL): 4991.68



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



DEPTH WATER ENCOUNTERED (FT. BGS): -

ABANDONMENT METHOD: Bentonite





6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: CME 75

DRILL BIT SIZE (INCHES): 6

DATE STARTED - COMPLETED: 4/23/19 - 4/23/19

TOTAL WELL DEPTH (FT. BGS): 18

DEPTH TO WATER (FT. BGS): 15.61

CR42 and CR13

BORING / WELL ID: BH24 / MW08

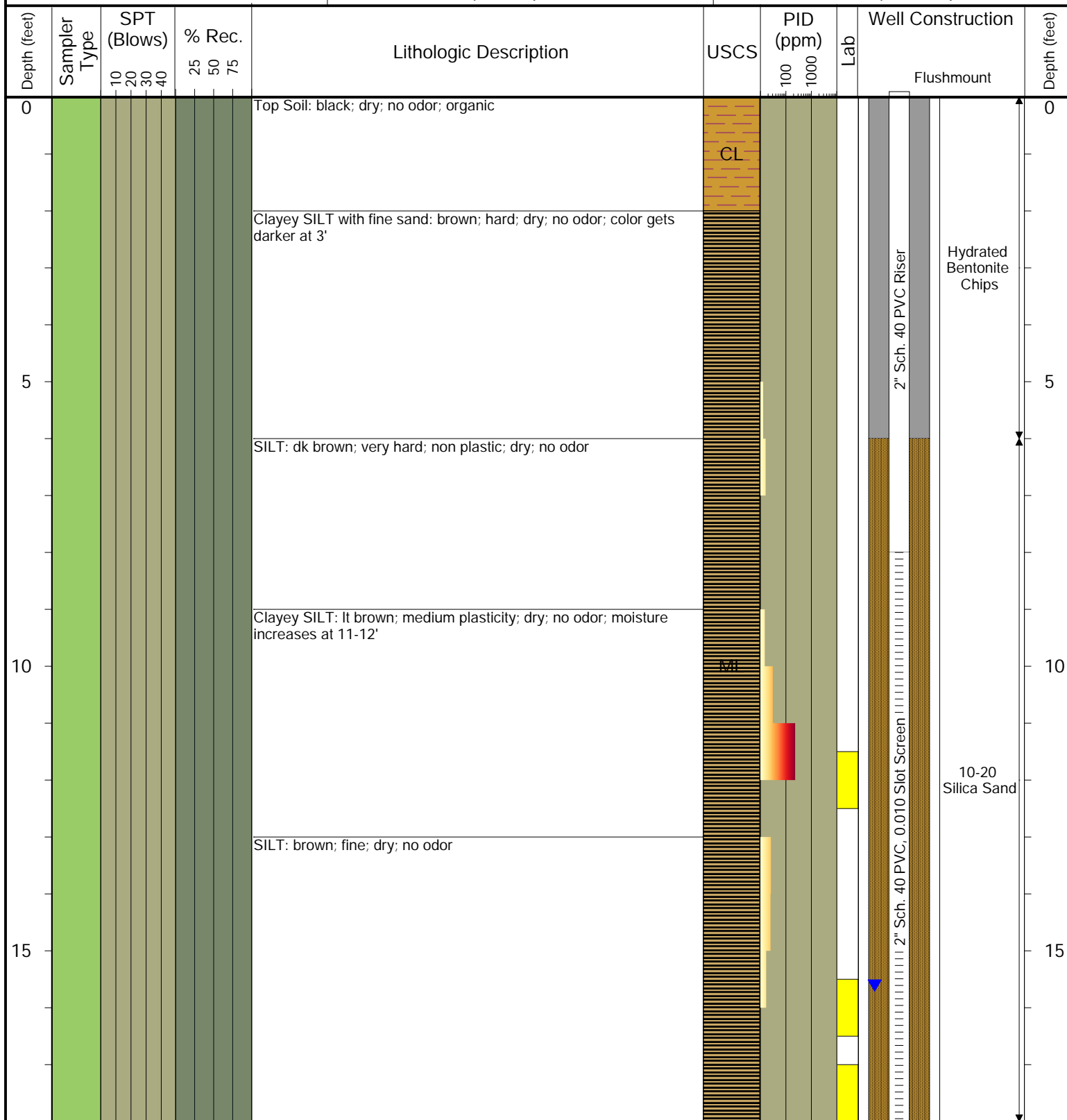
LOCATION: Weld County, CO

LATITUDE: 40.29232216

LONGITUDE: -104.9415876

CASING ELEVATION (FT. AMSL): 4993.26

GROUND ELEVATION (FT. AMSL): 4993.62



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: J. Carrington

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 6

DATE STARTED - COMPLETED: 4/23/19 - 4/23/19

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH TO WATER (FT. BGS): 11

CR42 and CR13

BORING / WELL ID: BH25 / MW07

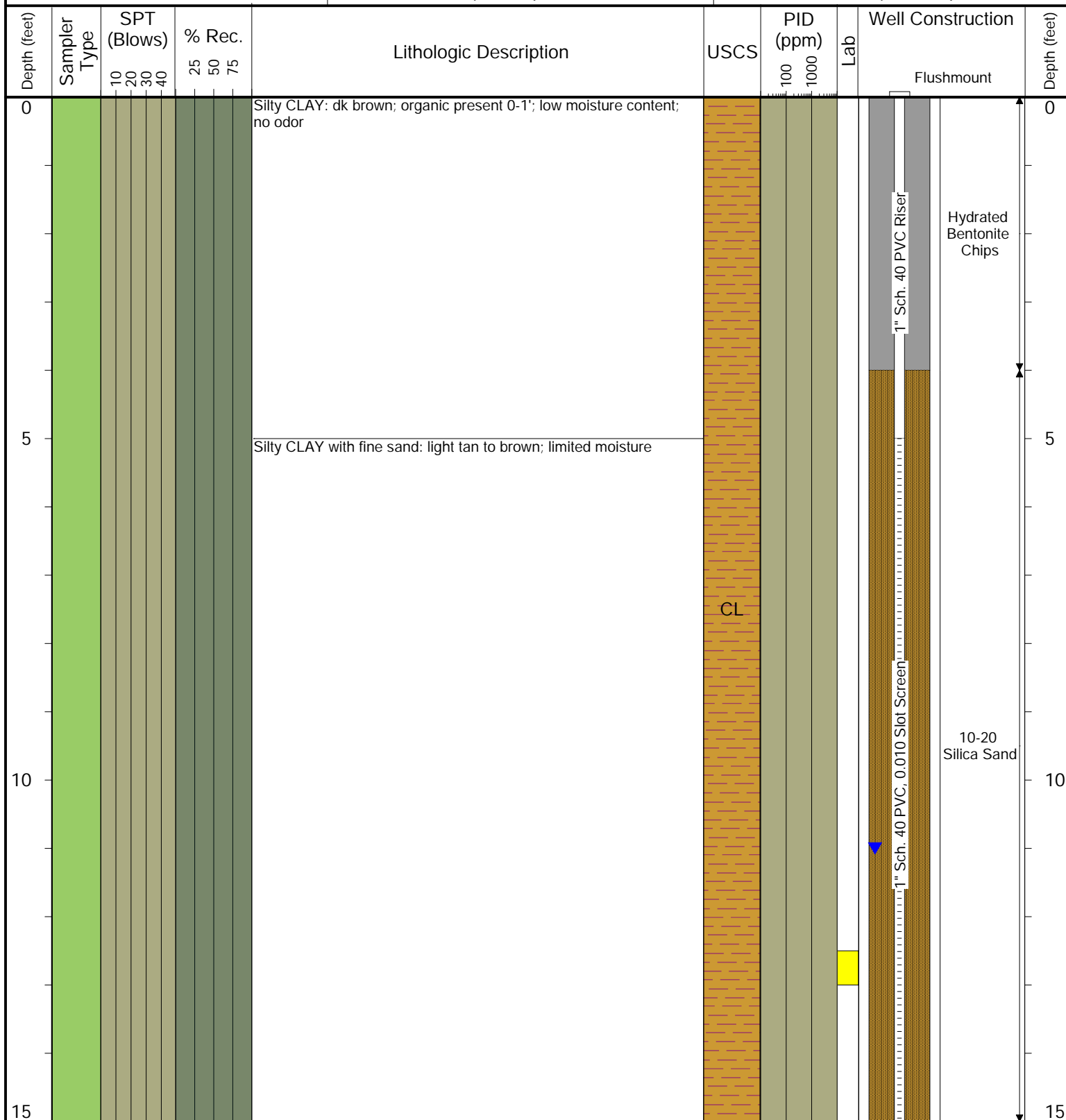
LOCATION: Weld County, Colorado

LATITUDE: 40.29196614

LONGITUDE: -104.9415055

CASING ELEVATION (FT. AMSL): 4992.74

GROUND ELEVATION (FT. AMSL): 4992.92



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: J. Carrington

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/23/2019 - 4/23/2019

TOTAL WELL DEPTH (FT. BGS): 12.5

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH26

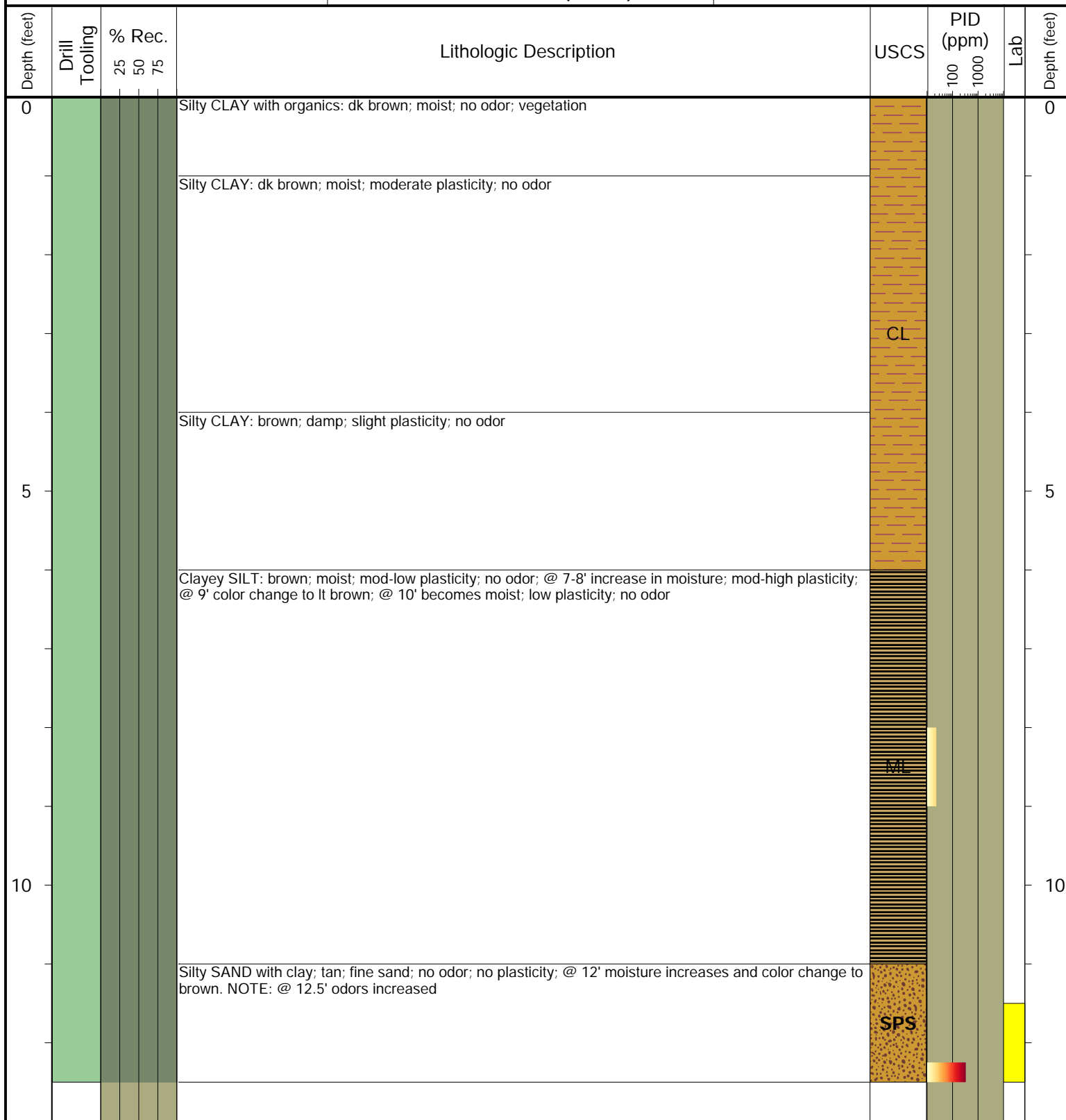
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460201.0245

EASTING (UTM ZONE 13N): 504924.376626

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Humphrey

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: Hollow Stem Auger

DRILL BIT SIZE (INCHES): 6"

DATE STARTED - COMPLETED: 4/26/2019 - 4/26/2019

TOTAL WELL DEPTH (FT. BGS): 19

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH27

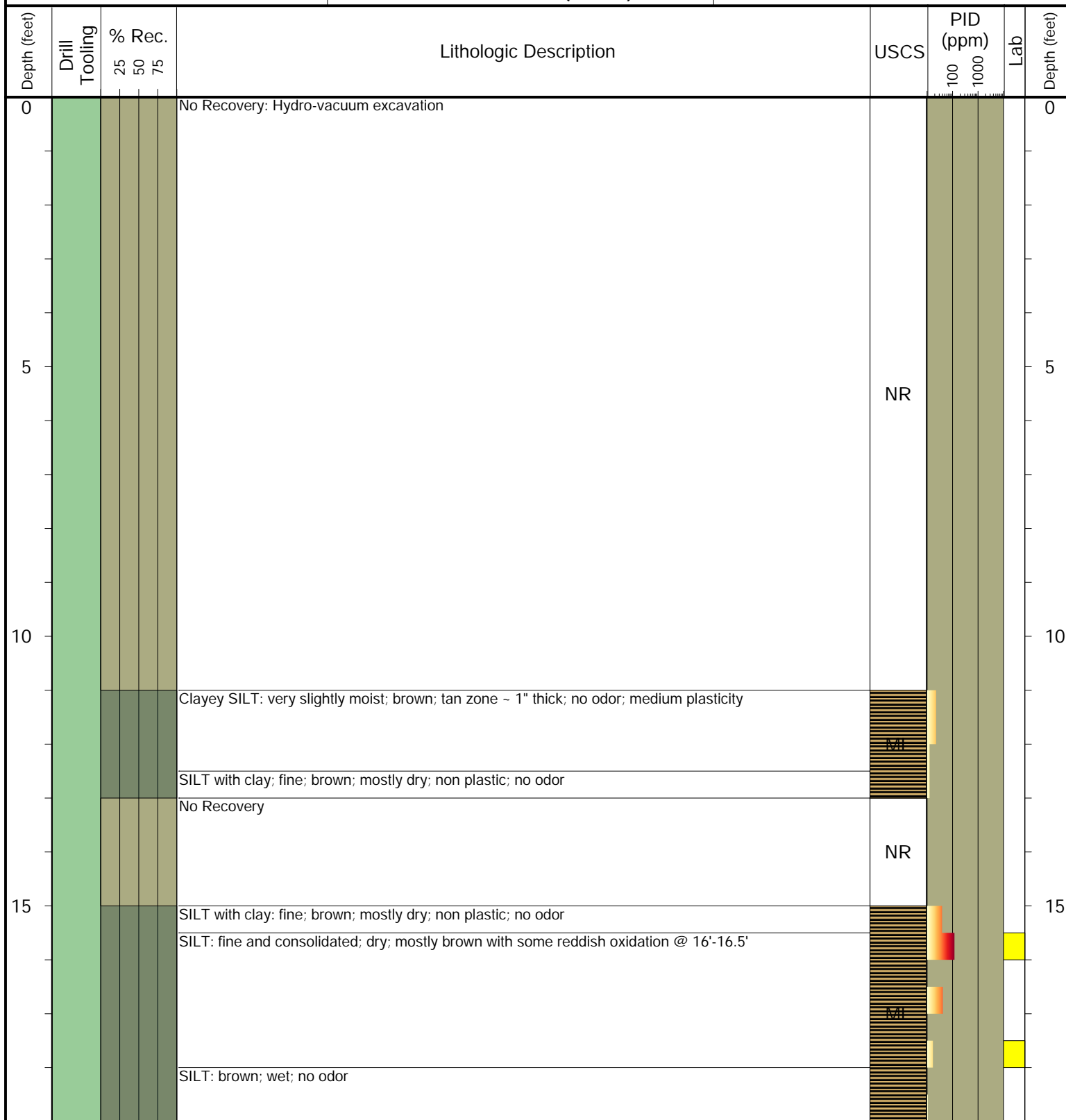
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460159.73811

EASTING (UTM ZONE 13N): 504947.162669

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Hand Augur

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/26/2019 - 4/26/2019

TOTAL WELL DEPTH (FT. BGS): 11.5

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH28-HA

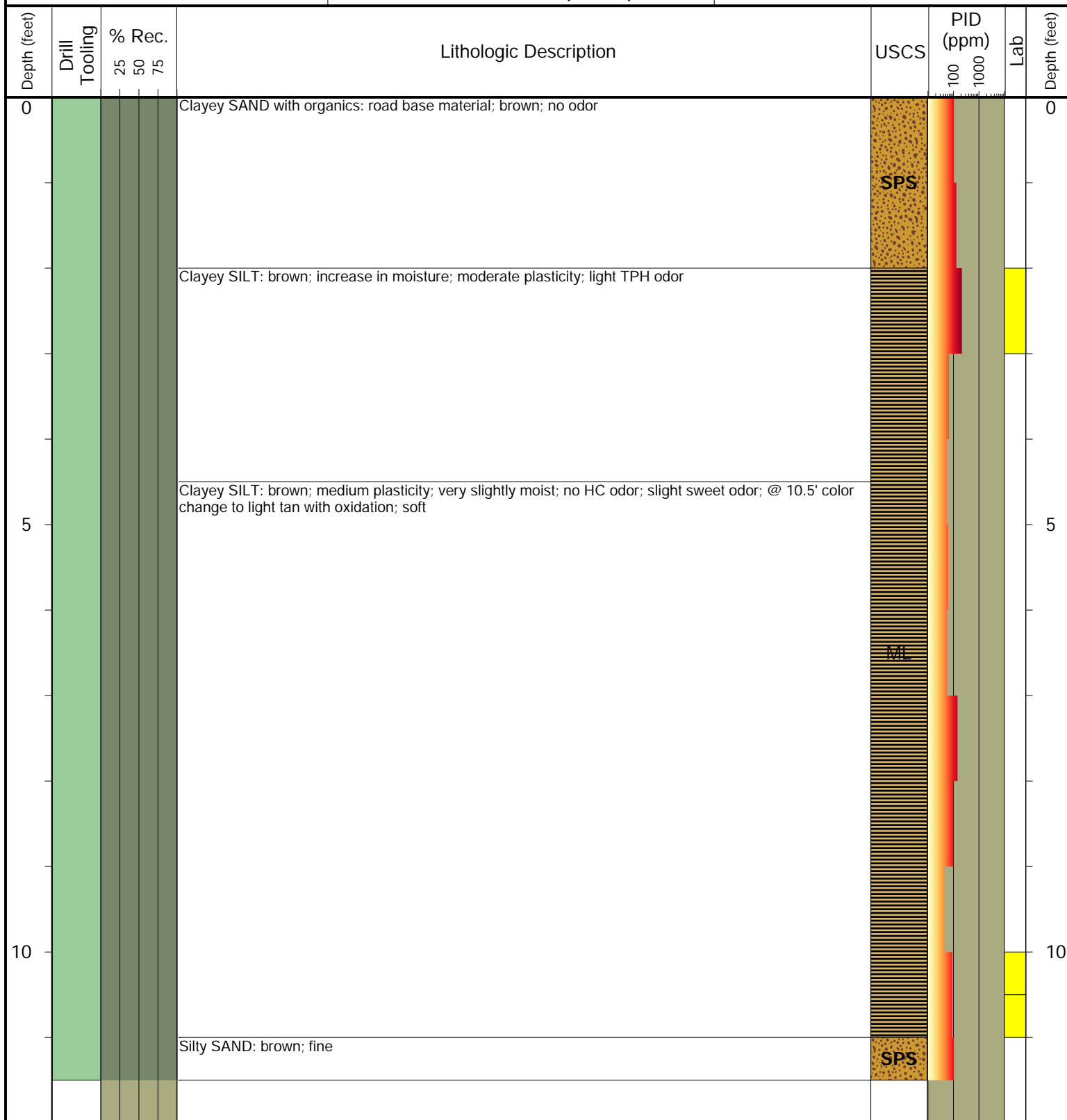
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460160.70984

EASTING (UTM ZONE 13N): 504957.458609

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/26/2019 - 4/26/2019

TOTAL WELL DEPTH (FT. BGS): 18

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH29

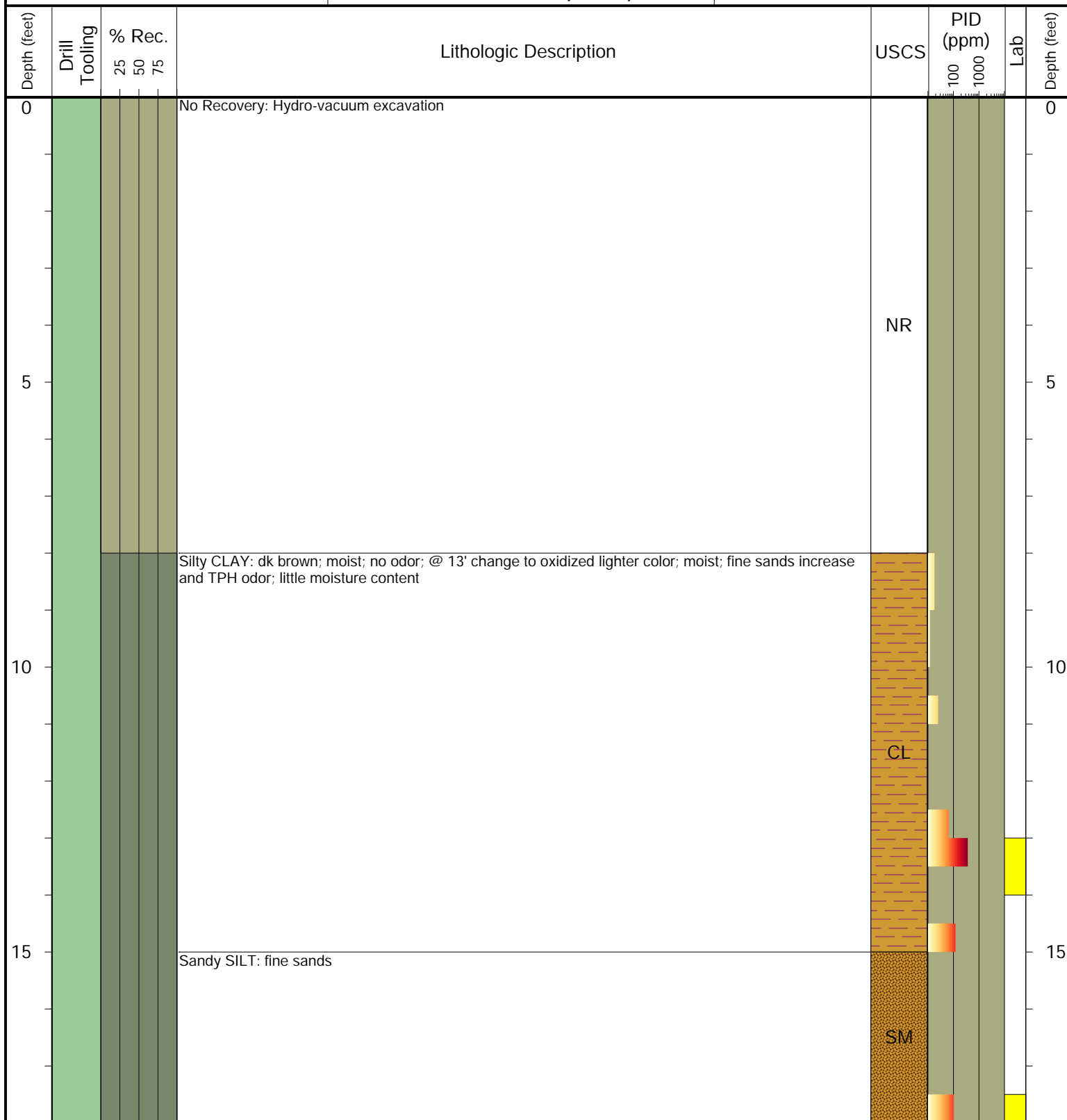
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460166.78749

EASTING (UTM ZONE 13N): 504935.963658

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: Geoprobe 7730

DRILL BIT SIZE (INCHES): 2"

DATE STARTED - COMPLETED: 4/26/2019 - 4/26/2019

TOTAL WELL DEPTH (FT. BGS): 18

DEPTH WATER ENCOUNTERED (FT. BGS): -

CR42 and CR13

BORING ID: BH30

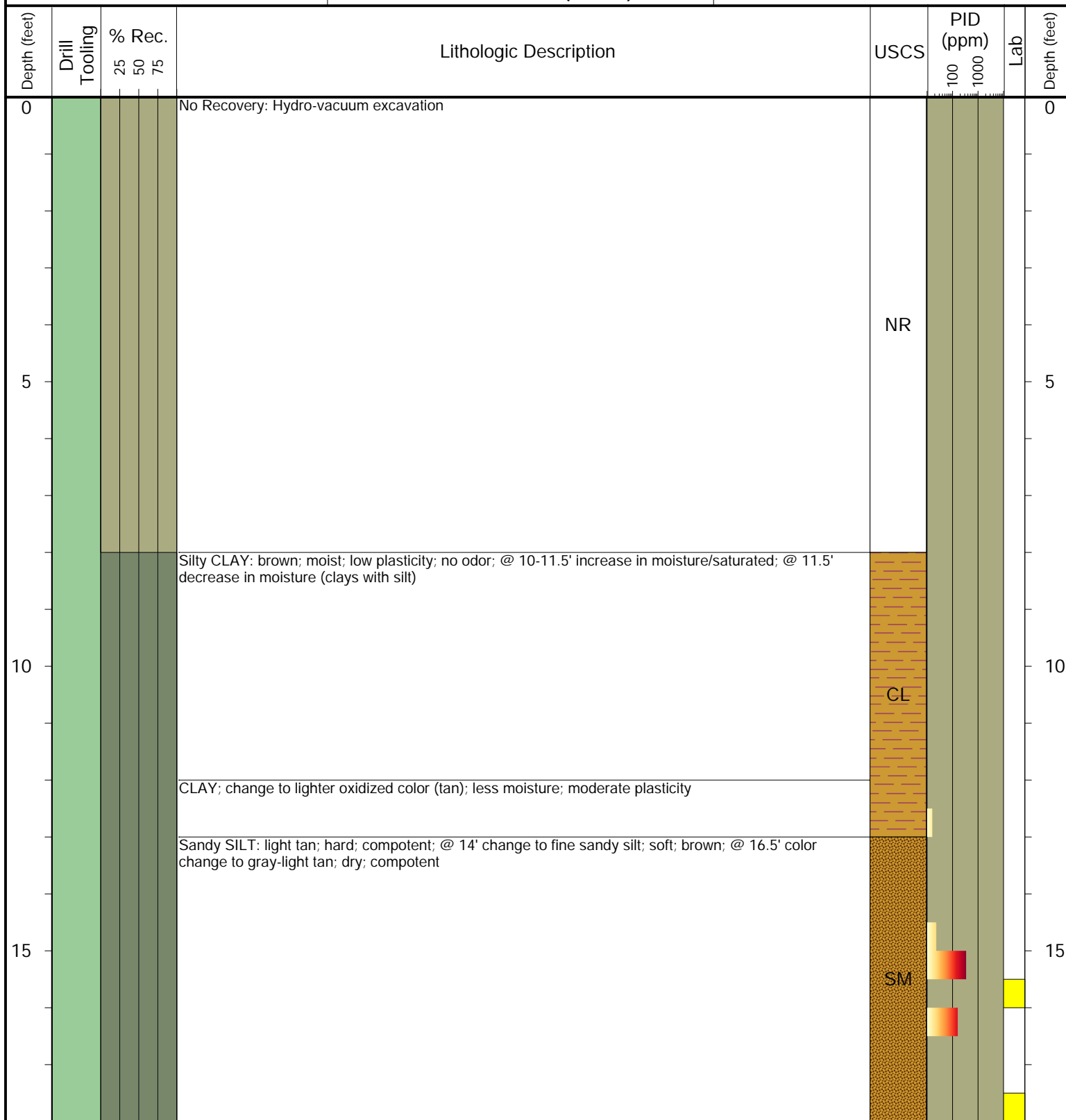
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): 4460168.44937

EASTING (UTM ZONE 13N): 504927.616219

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B.Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8

DATE STARTED - COMPLETED: 5/8/19 - 5/8/19

TOTAL WELL DEPTH (FT. BGS): 25

DEPTH TO WATER (FT. BGS): 12.49

CR42 and CR13

BORING / WELL ID: MW09

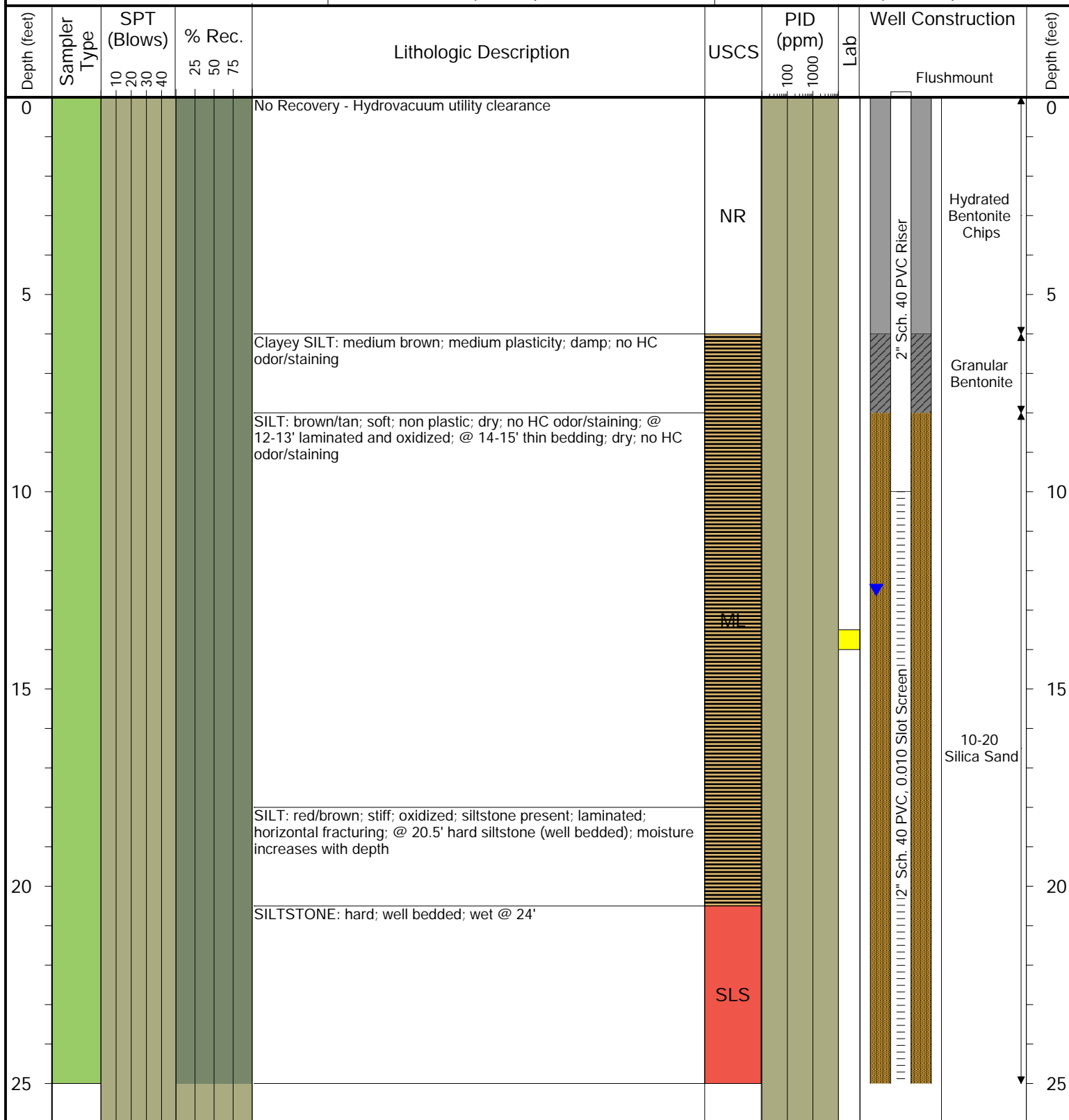
LOCATION: Weld County, Colorado

LATITUDE: 40.292670679565

LONGITUDE: -104.94108839055

CASING ELEVATION (FT. AMSL): 4990.3

GROUND ELEVATION (FT. AMSL): 4990.72



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B.Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8

DATE STARTED - COMPLETED: 5/8/19 - 5/8/19

TOTAL WELL DEPTH (FT. BGS): 23

DEPTH TO WATER (FT. BGS): 11.97

CR42 and CR13

BORING / WELL ID: MW10

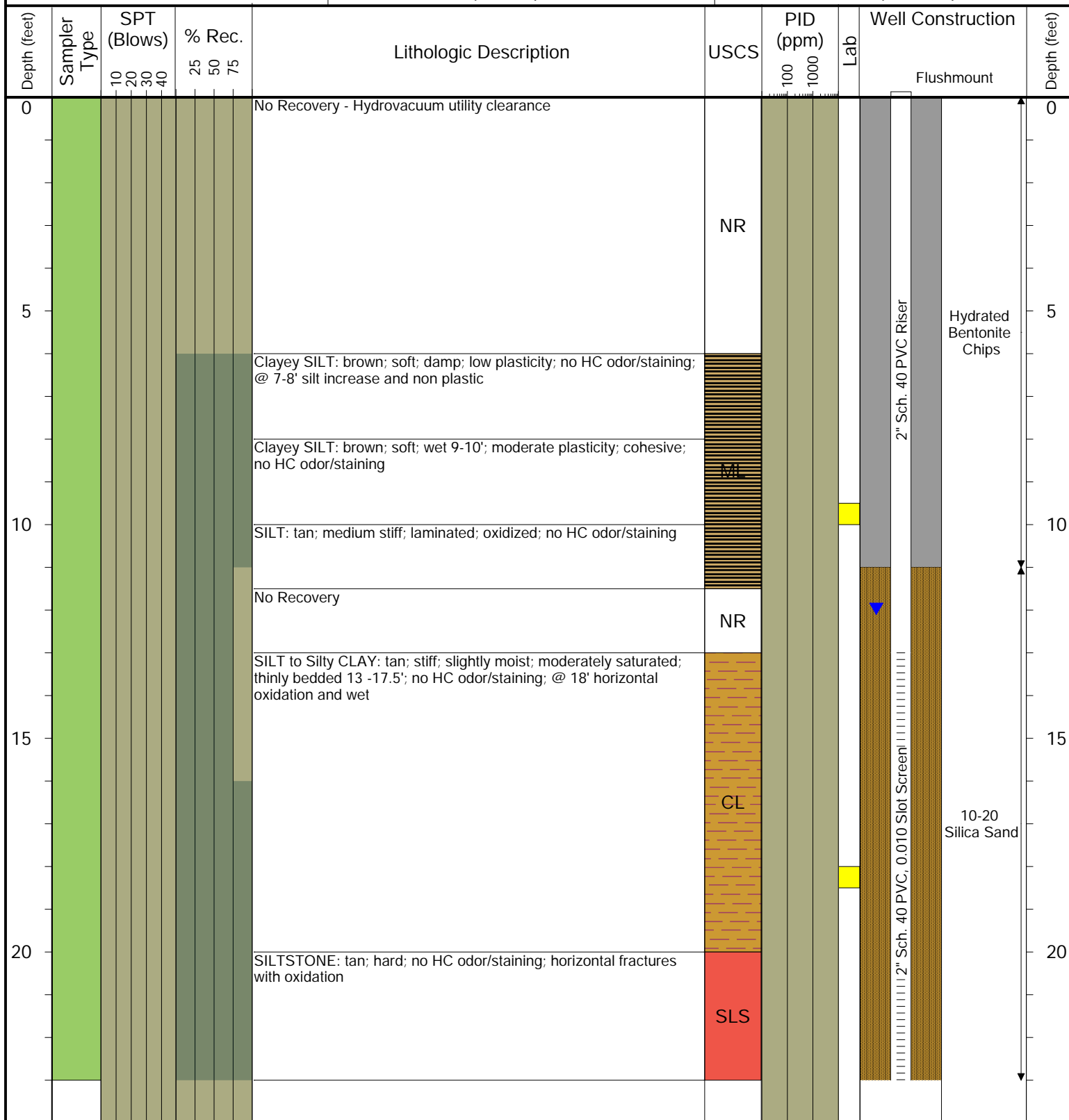
LOCATION: Weld County, Colorado

LATITUDE: 40.292468574154

LONGITUDE: -104.94108770237

CASING ELEVATION (FT. AMSL): 4990.59

GROUND ELEVATION (FT. AMSL): 4990.88



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B.Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8

DATE STARTED - COMPLETED: 5/8/19 - 5/8/19

TOTAL WELL DEPTH (FT. BGS): 23

DEPTH TO WATER (FT. BGS): 10.88

CR42 and CR13

BORING / WELL ID: MW11

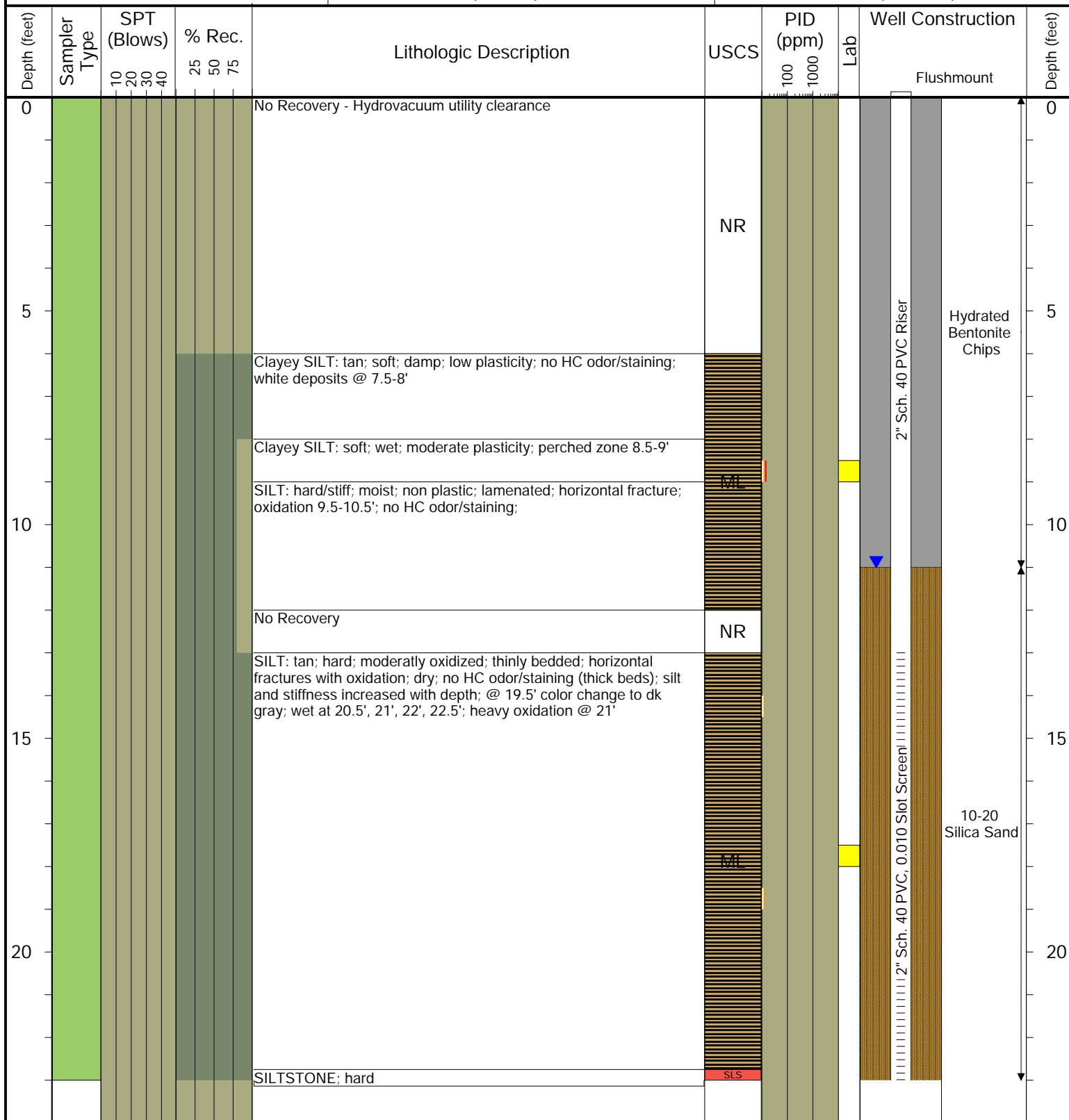
LOCATION: Weld County, Colorado

LATITUDE: 40.292225567951

LONGITUDE: -104.94109967437

CASING ELEVATION (FT. AMSL): 4991.03

GROUND ELEVATION (FT. AMSL): 4991.39



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B.Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8

DATE STARTED - COMPLETED: 5/8/19 - 5/8/19

TOTAL WELL DEPTH (FT. BGS): 23

DEPTH TO WATER (FT. BGS): 10.41

CR42 and CR13

BORING / WELL ID: MW12

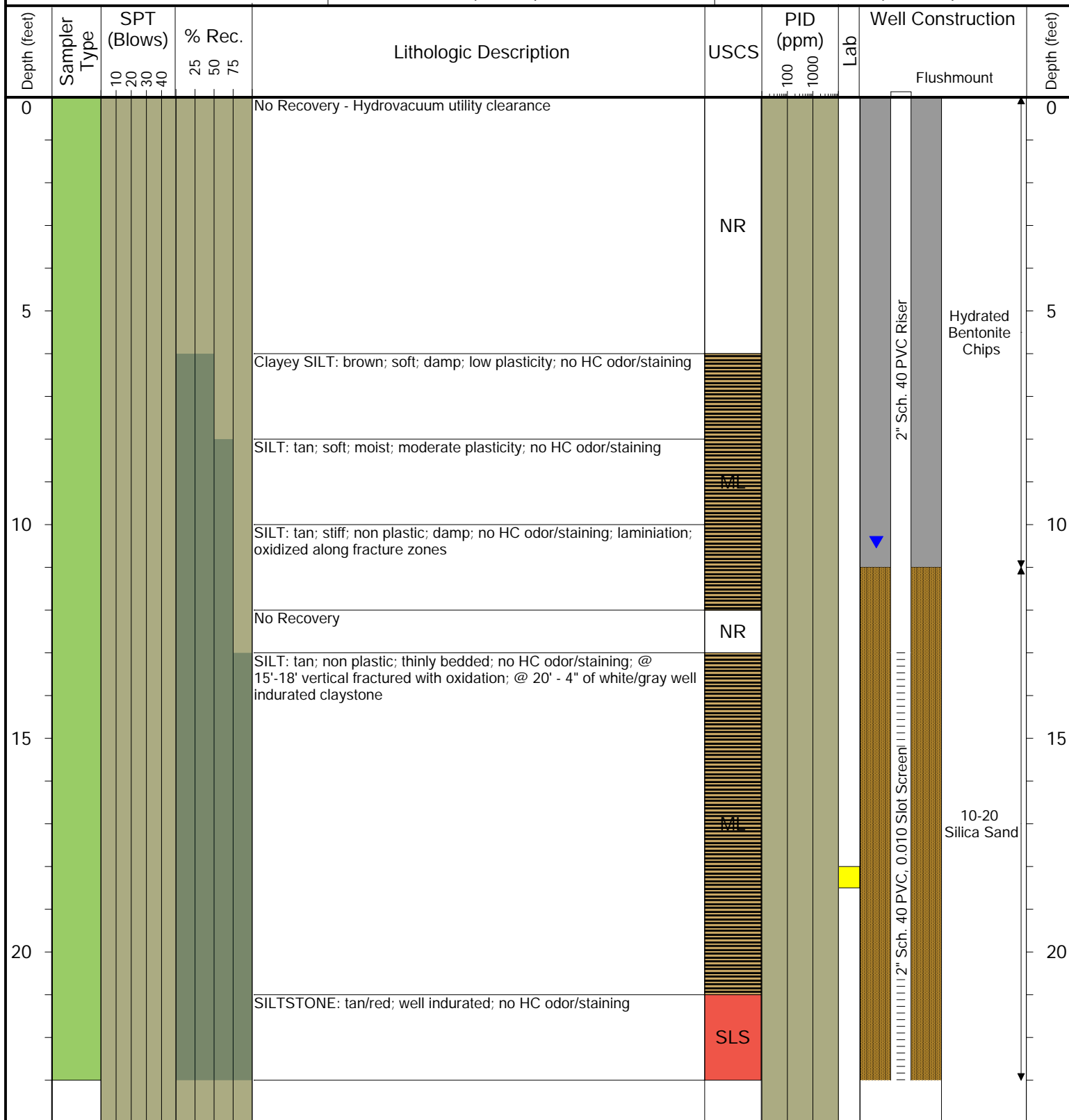
LOCATION: Weld County, Colorado

LATITUDE: 40.292009028062

LONGITUDE: -104.94107022154

CASING ELEVATION (FT. AMSL): 4991.06

GROUND ELEVATION (FT. AMSL): 4991.68



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: J. Watts

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8

DATE STARTED - COMPLETED: 5/23/19 - 5/23/19

TOTAL WELL DEPTH (FT. BGS): 19

DEPTH TO WATER (FT. BGS): 11.3

CR42 and CR13

BORING / WELL ID: MW13

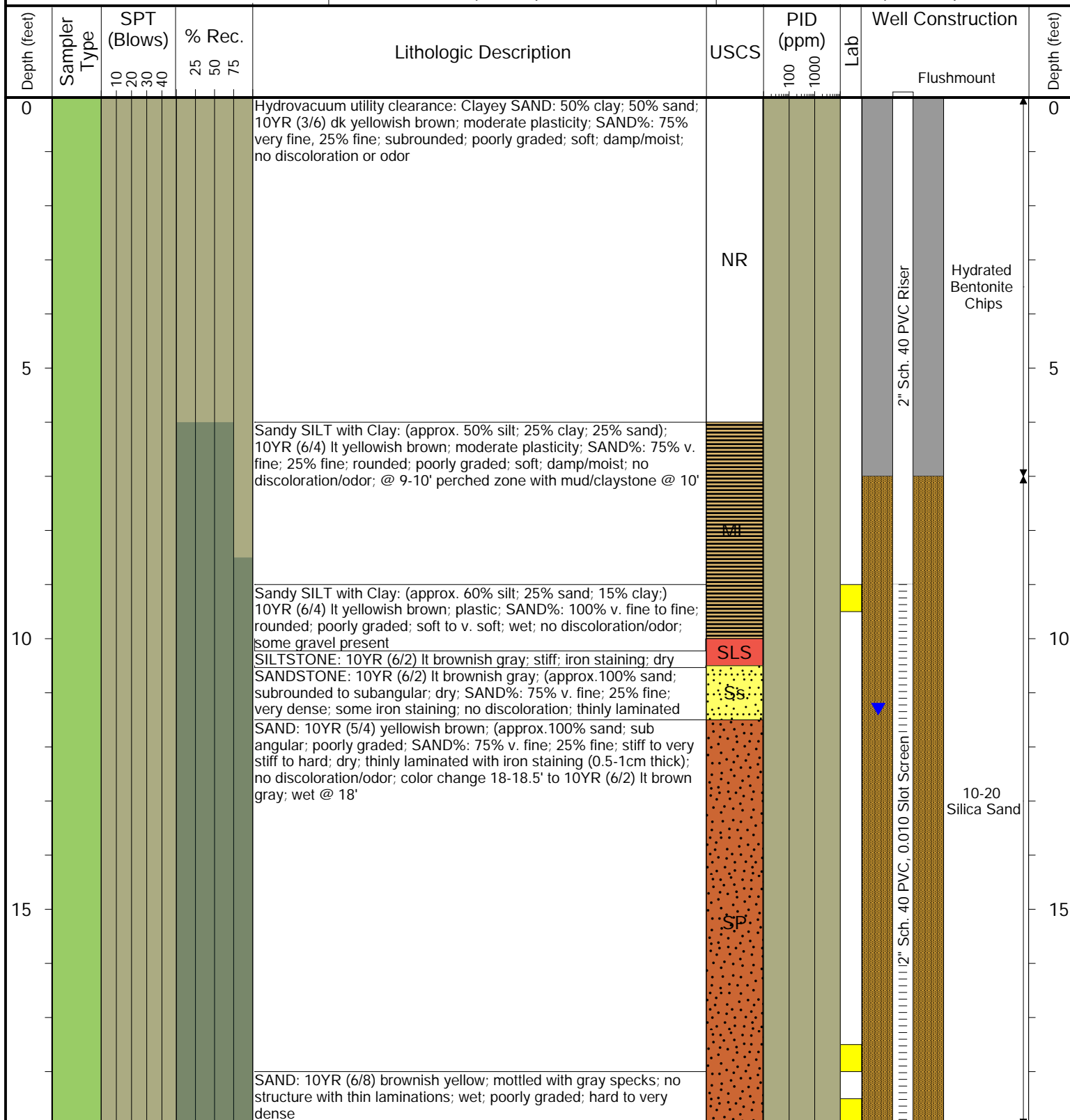
LOCATION: Weld County, Colorado

LATITUDE: 40.2923628955

LONGITUDE: -104.94108751553

CASING ELEVATION (FT. AMSL): 4990.68

GROUND ELEVATION (FT. AMSL): 4991



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: J. Watts

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8

DATE STARTED - COMPLETED: 5/23/19 - 5/23/19

TOTAL WELL DEPTH (FT. BGS): 18.5

DEPTH TO WATER (FT. BGS): 13.33

CR42 and CR13

BORING / WELL ID: MW14

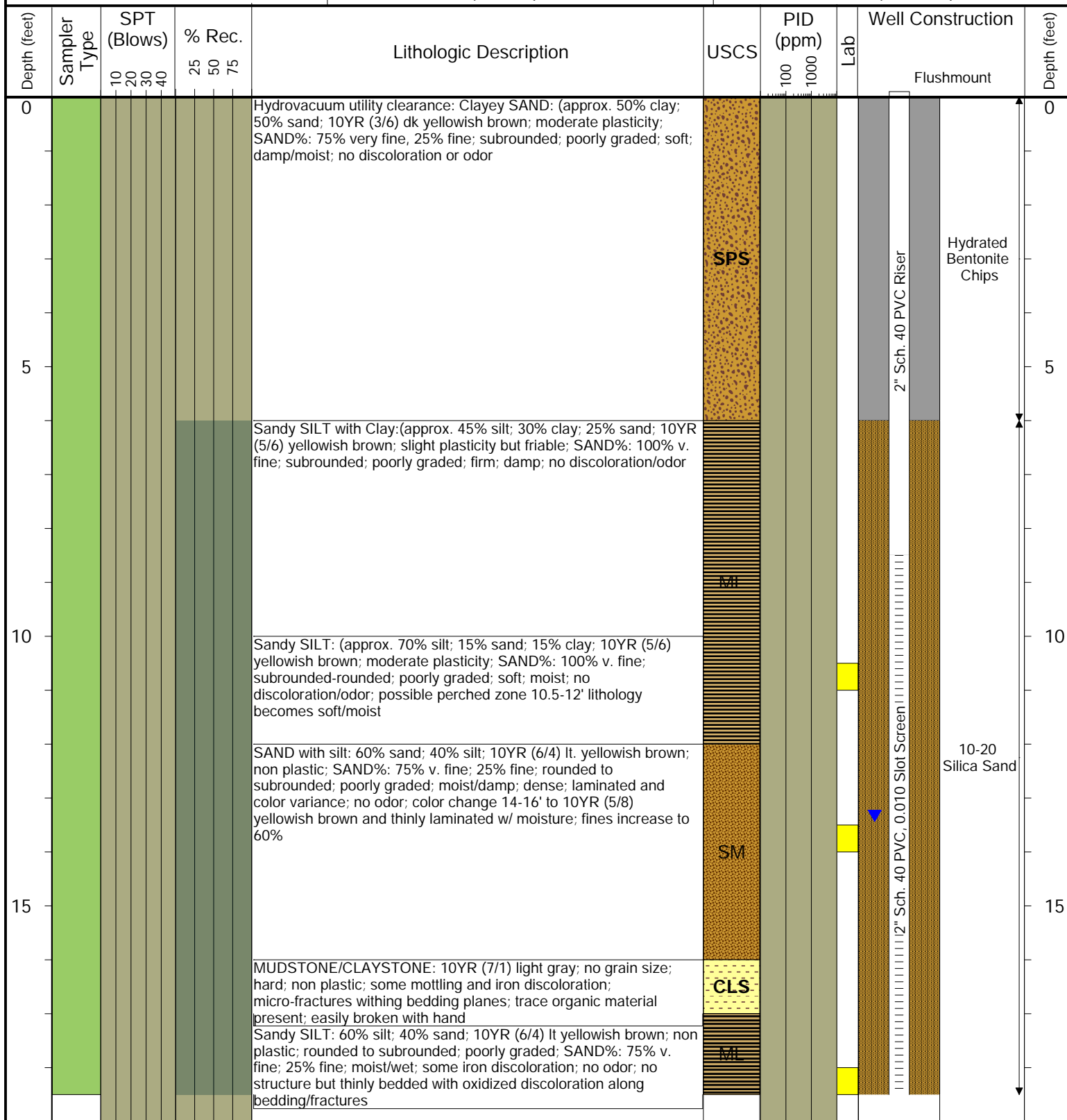
LOCATION: Weld County, Colorado

LATITUDE: 40.29256708939

LONGITUDE: -104.94138364548

CASING ELEVATION (FT. AMSL): 4991.64

GROUND ELEVATION (FT. AMSL): 4991.81



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: J. Watts

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8

DATE STARTED - COMPLETED: 5/23/19 - 5/23/19

TOTAL WELL DEPTH (FT. BGS): 18.5

DEPTH TO WATER (FT. BGS): 13.6

CR42 and CR13

BORING / WELL ID: MW15

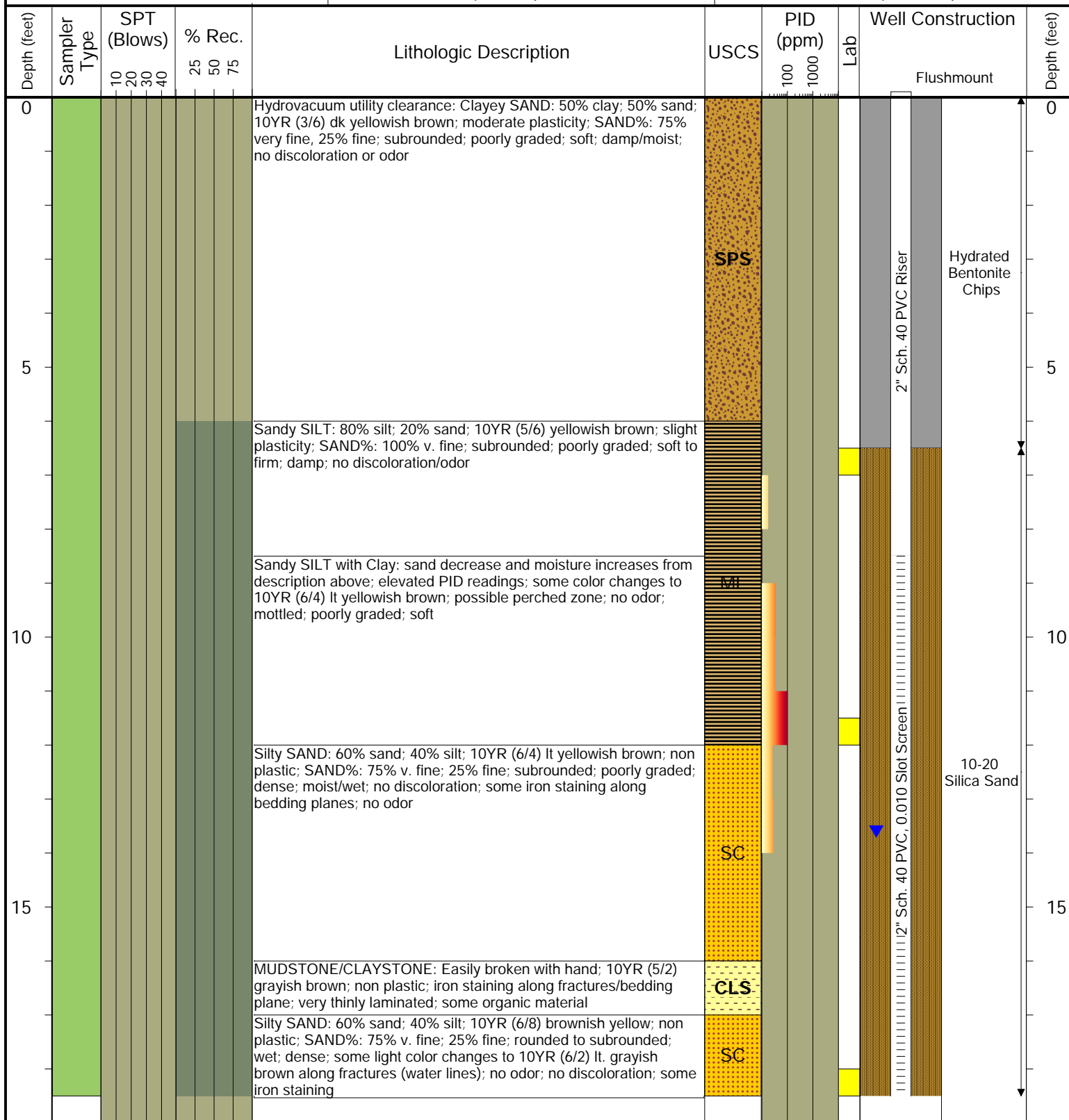
LOCATION: Weld County, Colorado

LATITUDE: 40.292565532247

LONGITUDE: -104.9415615659

CASING ELEVATION (FT. AMSL): 4992.24

GROUND ELEVATION (FT. AMSL): 4992.52



Drilling / Sample Method:

Solid Stem Auger

Hollow Stem Auger

Split Spoon Sampler

CME Continuous Sample Tube

Laboratory Sample Types:

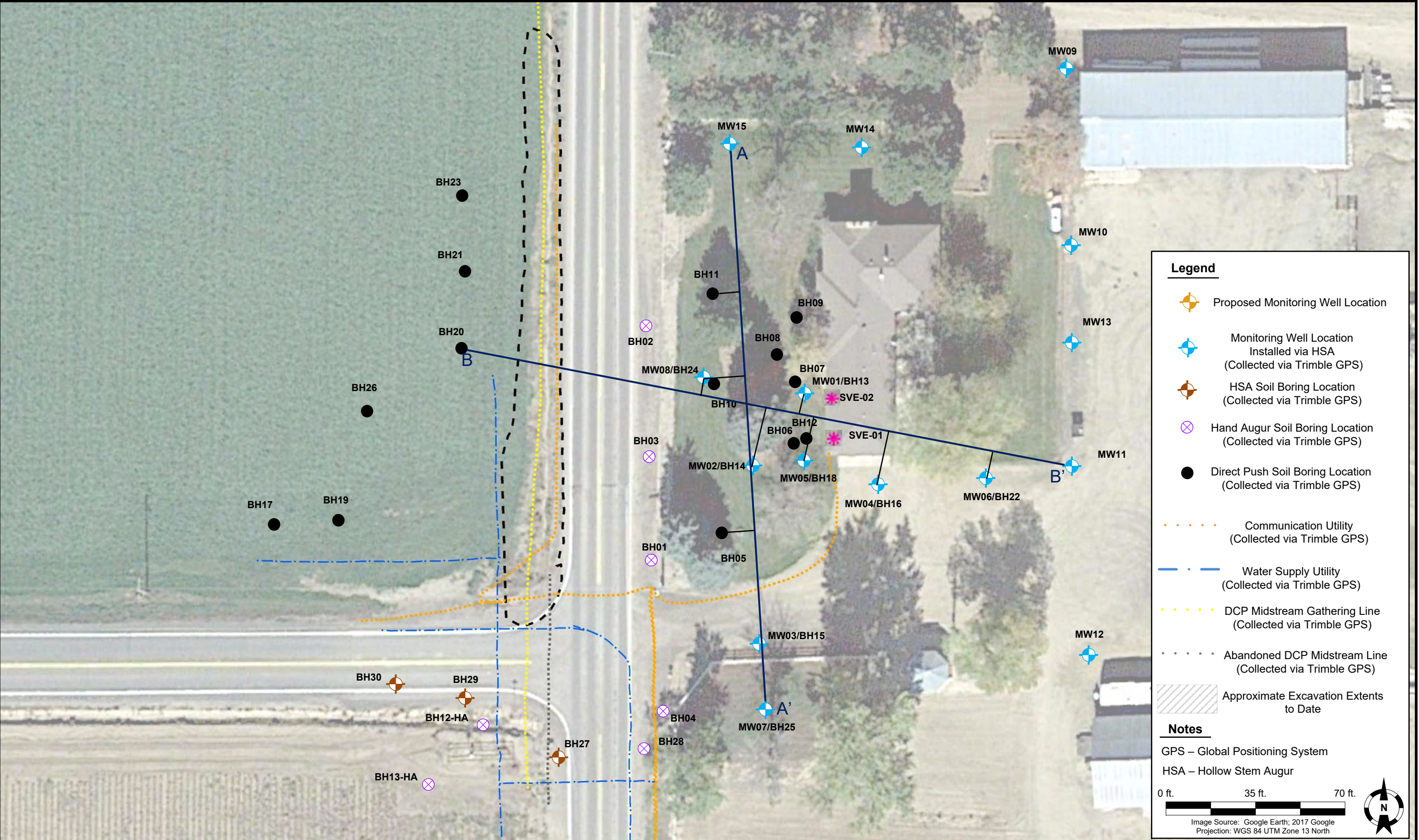
Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab

Appendix C

Lithologic Cross-Sections



DATE:	April 9, 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold



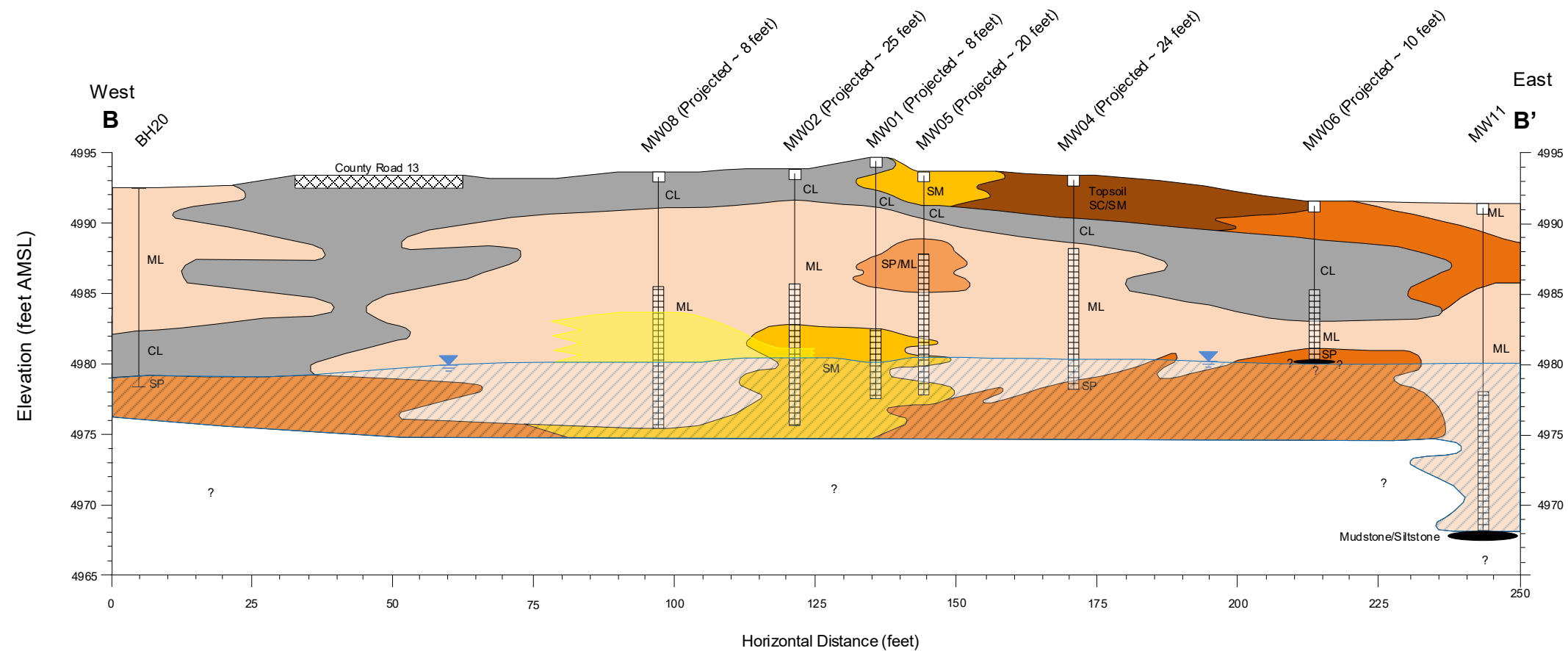
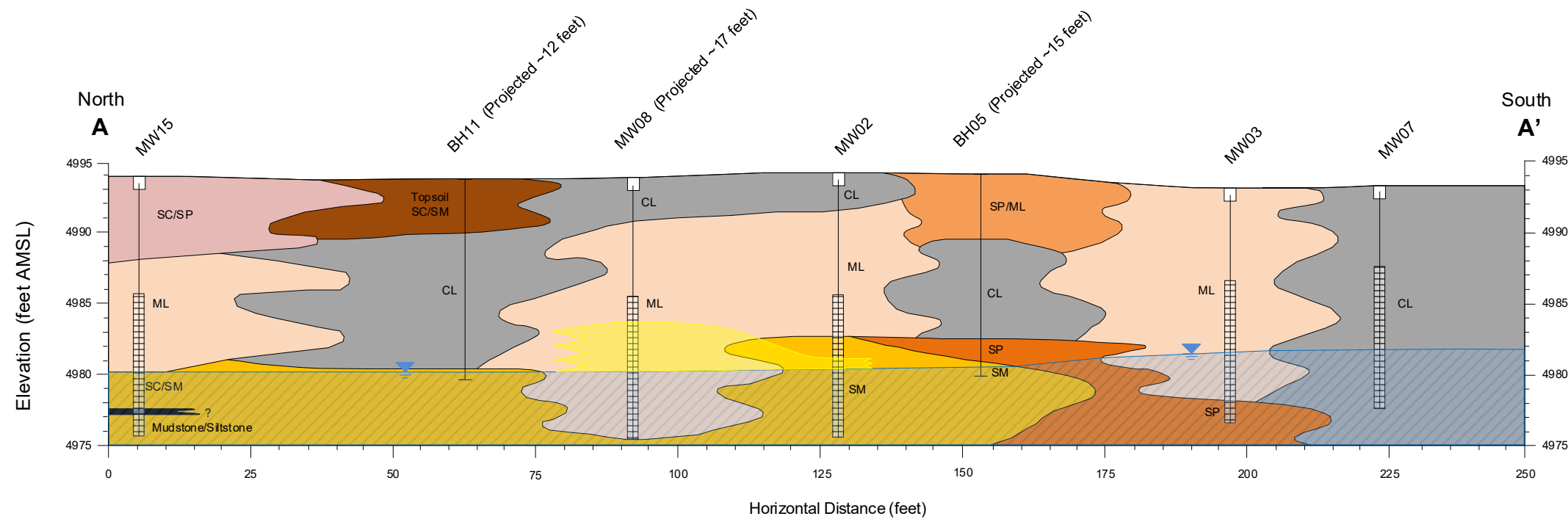
TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6899 Pecos Street – Unit C
Denver, CO 80221

DCP Midstream – DJ Basin
CR 42 and CR 13
SESE, Section 24, Township 4 North, Range 68 West
Weld County, Colorado

Lithologic Cross-Sections
Prime Line Locations

Appendix C

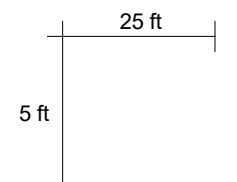


LEGEND

- SC – Topsoil, Clayey Sands (sand-clay mixtures)
- ML – Silts and Very fine sands, Silty sands/Clayey silts of low to medium plasticity
- SP – Poorly Graded Sand (clean sands < 5% fines)
- SM – Silty Sands (sand-silt mixtures)
- CL – Clays, Sandy and Silty Clays of low to medium Plasticity
- Siltstone / Mudstone
- Groundwater Table (May 28, 2019)
- LNAPL (May 28, 2019)
- Well Screen Interval
- Approximate Depth of Groundwater Table

Notes:
 - Ground surface approximated.
 - AMSL Above Mean Sea Level

Cross Section Scale



DRAWN BY: B. Humphrey

DATE: 6/10/2019



Tasman Geosciences, LLC
 6899 Pecos Street – Unit C
 Denver, CO 80221

DCP Midstream – DJ Basin
CR 42 and CR 13
 SESE, Section 24, Township 4 North, Range 68 West
 Weld County, Colorado

Lithologic Cross-Sections

Appendix C

Appendix D

Soil Boring Soil Sample Laboratory Analytical Results



April 08, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 07, 2019. This project is associated with Origins project number Y904133-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@4'	Y904133-01	Soil	April 6, 2019 8:30	04/07/2019 15:45
BH01@10'	Y904133-02	Soil	April 6, 2019 10:15	04/07/2019 15:45
BH02@03'	Y904133-03	Soil	April 6, 2019 12:00	04/07/2019 15:45
BH02@10'	Y904133-04	Soil	April 6, 2019 13:31	04/07/2019 15:45
BH03@10'	Y904133-05	Soil	April 6, 2019 15:44	04/07/2019 15:45
BH04@10'	Y904133-06	Soil	April 6, 2019 17:15	04/07/2019 15:45

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

ORIGINS

LABORATORY, INC

www.originslaboratory.com

YA04133

page of

Client: DPP Mission/Tesman

Address: _____

Project Manager: J. Stelmacker

Project Name: CRB and CR42 Pipeline Release

Telephone Number: _____

Project Number: _____

Email Address: _____

Samples Collected By: J. Stelmacker

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other			
BH01-4'	4/6/19	0830	1						X			X	1	
BH01-10'	4/6/19	1015	1						X			X	2	
BH02-03'	4/6/19	1200	1						X			X	3	
BH02-10'	4/6/19	1331	1						X			X	4	
BH03-10'	4/6/19	1544	1						X			X	5	
BH04-10'	4/6/19	1715	1						X			X	6	
													7	
													8	
													9	
													10	
Relinquished By: <u>Chandra S. Goel</u>	Date: <u>4/7/19</u>	Time: <u>3:45PM</u>							Received By: <u>[Signature]</u>	Date: <u>4/7/19</u>	Time: <u>1515</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		
Relinquished By: _____	Date: _____	Time: _____												

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Temp Received: 0.5°C Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904133

Client: Tasman

Client Project ID: CR13 + CR42

Checklist Completed by: JD

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/7/19

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 0.5 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JD

Date/Time Reviewed 4/8/19

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH01@4'

4/6/2019 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904133-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.452	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/07/2019	
Toluene	0.158	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	0.0500	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130			"	"	"
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	64.3 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH01@10'

4/6/2019 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904133-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.900	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/07/2019
Toluene	0.837	0.0500	"	"	"	JTD	"	"
Ethylbenzene	0.0810	0.0500	"	"	"	JTD	"	"
Xylenes, total	0.610	0.0500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	21.2	5.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	79.8	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019
Surrogate: o-Terphenyl	68.7 %	50-150			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH02@03'

4/6/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904133-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/07/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	64.4 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH02@10'

4/6/2019 1:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904133-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/07/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	66.7 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH03@10'

4/6/2019 3:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904133-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.231	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/07/2019	
Toluene	0.110	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4

101 % 70-130

"

"

"

Surrogate: Toluene-d8

102 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

100 % 70-130

"

"

"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
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Surrogate: o-Terphenyl

68.0 % 50-150

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH04@10'

4/6/2019 5:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904133-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.510	0.0500	mg/kg	25	B9D0701	JTD	04/07/2019	04/07/2019	
Toluene	0.306	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

101 % 70-130
102 % 70-130
99.1 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0702	JTD	04/07/2019	04/07/2019	U
Surrogate: o-Terphenyl	71.0 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0701 - EPA 5030 (soil)

Blank (B9D0701-BLK1)

Prepared: 04/07/2019 Analyzed: 04/07/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0701 - EPA 5030 (soil)										
LCS (B9D0701-BS1)					Prepared: 04/07/2019 Analyzed: 04/07/2019					
Benzene	0.0886	0.00200	mg/kg	0.100		88.6	70-130			
Toluene	0.0837	0.00200	"	0.100		83.7	70-130			
Ethylbenzene	0.0831	0.00200	"	0.100		83.1	70-130			
m,p-Xylene	0.169	0.00400	"	0.200		84.6	70-130			
o-Xylene	0.0863	0.00200	"	0.100		86.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0701 - EPA 5030 (soil)

Matrix Spike (B9D0701-MS1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Benzene	2.58	0.0500	mg/kg	2.50	ND	103	70-130			
Toluene	2.46	0.0500	"	2.50	ND	98.5	70-130			
Ethylbenzene	2.50	0.0500	"	2.50	ND	99.9	70-130			
m,p-Xylene	5.06	0.100	"	5.00	ND	101	70-130			
o-Xylene	2.52	0.0500	"	2.50	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0701 - EPA 5030 (soil)

Matrix Spike Dup (B9D0701-MSD1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Benzene	2.74	0.0500	mg/kg	2.50	ND	110	70-130	5.80	20	
Toluene	2.61	0.0500	"	2.50	ND	104	70-130	5.64	20	
Ethylbenzene	2.64	0.0500	"	2.50	ND	106	70-130	5.68	20	
m,p-Xylene	5.42	0.100	"	5.00	ND	108	70-130	6.79	20	
o-Xylene	2.68	0.0500	"	2.50	ND	107	70-130	6.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

Blank (B9D0702-BLK1)

Prepared: 04/07/2019 Analyzed: 04/07/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	33		"	50.0		66.8	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

LCS (B9D0702-BS1)

Prepared: 04/07/2019 Analyzed: 04/07/2019

Diesel (C10-C28)	764	50.0	mg/kg	1000		76.4	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.7	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

Matrix Spike (B9D0702-MS1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Diesel (C10-C28)	796	50.0	mg/kg	1000	21.1	77.5	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.6	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0702 - EPA 3580

Matrix Spike Dup (B9D0702-MSD1)		Source: Y904133-04			Prepared: 04/07/2019 Analyzed: 04/07/2019					
Diesel (C10-C28)	736	50.0	mg/kg	1000	21.1	71.5	70-130	7.88	35	
Surrogate: o-Terphenyl	39		"	50.0		78.1	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



April 09, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 08, 2019. This project is associated with Origins project number Y904163-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH05@12-14'	Y904163-01	Soil	April 8, 2019 10:05	04/08/2019 18:05
BH06@13-14'	Y904163-02	Soil	April 8, 2019 11:55	04/08/2019 18:05
BH07@11-12'	Y904163-03	Soil	April 8, 2019 12:40	04/08/2019 18:05
BH07@13-14'	Y904163-04	Soil	April 8, 2019 12:45	04/08/2019 18:05
BH08@10-11'	Y904163-05	Soil	April 8, 2019 13:30	04/08/2019 18:05
BH08@13-14'	Y904163-06	Soil	April 8, 2019 13:35	04/08/2019 18:05
BH09@11-12'	Y904163-07	Soil	April 8, 2019 14:40	04/08/2019 18:05
BH09@13-14'	Y904163-08	Soil	April 8, 2019 14:45	04/08/2019 18:05
BH10@12-13'	Y904163-09	Soil	April 8, 2019 16:15	04/08/2019 18:05
BH11@7-8'	Y904163-10	Soil	April 8, 2019 17:00	04/08/2019 18:05
BH11@13.5'	Y904163-11	Soil	April 8, 2019 17:10	04/08/2019 18:05

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

4904163 page 1 of 2

Client: Tasman / DCP
Address: _____
Telephone Number: 703-487-1228
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey / Brandon Hayes
Project Name: DCP CR42 + CR13
Project Number: _____
Samples Collected By: James Carrington

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	Analysis	
B405 @ 12-14'	4/8/19	1005	1	X					X				1
B406 @ 13-14'		1155											2
B407 @ 11-12'		1240											3
B407 @ 13-14'		1245											4
B408 @ 10-11'		1330											5
B408 @ 13-14'		1335											6
B409 @ 11-12'		1440											7
B409 @ 13-14'		1445											8
B410 @ 12-13'		1615											9
B411 @ 7-8'		1700											10

Relinquished By: [Signature] Date: 4/8/19 Time: 1405
Relinquished By: _____ Date: _____ Time: _____

Received By: [Signature] Date: 4-8-19 Time: 1605
Received By: _____ Date: _____ Time: _____

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Date Results Needed

Temp Received- 41.5

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

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page 1 of 2

YH113

ORIGINS
LABORATORY, INC

Client: Tasman / DCP
Address: _____
Project Manager: Brian Humphrey / Brandon Hayes
Project Name: DCP CR42 & CR13
Project Number: _____
Samples Collected By: Brian Humphrey
Telephone Number: 303-487-1228
Email Address: bhumphrey@tasman-geo.com

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
BH11 @ 17.5	4/8/19	1710	1						X				1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
BCH	4/8/19	1805	[Signature]	4-9-19	1805	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Temp Received - 41.5

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 9904163

Client: Tasman

Client Project ID: DCP - CR42 + CR13

Checklist Completed by: D. Le

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4-8-19

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 4.5 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed 4-8-19

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH05@12-14'
4/8/2019 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0980	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	
Toluene	0.170	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	0.177	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	17.7	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	71.6	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	
Surrogate: o-Terphenyl	72.9 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH06@13-14'

4/8/2019 11:55:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.528	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019
Toluene	0.668	0.0500	"	"	"	JTD	"	"
Ethylbenzene	0.0650	0.0500	"	"	"	JTD	"	"
Xylenes, total	0.460	0.0500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	28.5	5.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	66.4	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019
Surrogate: o-Terphenyl	74.0 %	50-150			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH07@11-12'
4/8/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	65.6 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH07@13-14'
4/8/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	66.5 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH08@10-11'

4/8/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
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Surrogate: o-Terphenyl	68.1 %	50-150	"	"	"
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH08@13-14'

4/8/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	69.8 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH09@11-12'

4/8/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	61.4 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH09@13-14'

4/8/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	65.3 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH10@12-13'

4/8/2019 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	3.04	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019
Toluene	9.36	0.0500	"	"	"	JTD	"	"
Ethylbenzene	1.19	0.0500	"	"	"	JTD	"	"
Xylenes, total	8.47	0.0500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	237	5.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	111 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	101	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019
Surrogate: o-Terphenyl	69.7 %	50-150	"	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH11@7-8'

4/8/2019 5:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	04/09/2019	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	04/09/2019	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	64.2 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH11@13.5'
4/8/2019 5:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904163-11 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0809	JTD	04/08/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0810	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	77.0 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0809 - EPA 5030 (soil)										
Blank (B9D0809-BLK1)					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0809 - EPA 5030 (soil)

Blank (B9D0809-BLK2)

Prepared: 04/08/2019 Analyzed: 04/08/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0809 - EPA 5030 (soil)

LCS (B9D0809-BS1)

Prepared: 04/08/2019 Analyzed: 04/08/2019

Benzene	0.0953	0.00200	mg/kg	0.100		95.3	70-130			
Toluene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0889	0.00200	"	0.100		88.9	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.4	70-130			
o-Xylene	0.0908	0.00200	"	0.100		90.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0809 - EPA 5030 (soil)										
LCS (B9D0809-BS2)					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Benzene	0.0993	0.00200	mg/kg	0.100		99.3	70-130			
Toluene	0.0964	0.00200	"	0.100		96.4	70-130			
Ethylbenzene	0.0940	0.00200	"	0.100		94.0	70-130			
m,p-Xylene	0.191	0.00400	"	0.200		95.7	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0809 - EPA 5030 (soil)

Matrix Spike (B9D0809-MS1)		Source: Y904154-01			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Benzene	2.47	0.0500	mg/kg	2.50	ND	98.8	70-130			
Toluene	2.39	0.0500	"	2.50	ND	95.5	70-130			
Ethylbenzene	2.35	0.0500	"	2.50	ND	94.0	70-130			
m,p-Xylene	4.82	0.100	"	5.00	ND	96.4	70-130			
o-Xylene	2.38	0.0500	"	2.50	ND	95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0809 - EPA 5030 (soil)

Matrix Spike (B9D0809-MS2)		Source: Y904154-02			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Benzene	2.34	0.0500	mg/kg	2.50	ND	93.5	70-130			
Toluene	2.23	0.0500	"	2.50	ND	89.0	70-130			
Ethylbenzene	2.22	0.0500	"	2.50	ND	88.7	70-130			
m,p-Xylene	4.54	0.100	"	5.00	ND	90.7	70-130			
o-Xylene	2.27	0.0500	"	2.50	ND	90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0809 - EPA 5030 (soil)

Matrix Spike Dup (B9D0809-MSD1)		Source: Y904154-01			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Benzene	2.41	0.0500	mg/kg	2.50	ND	96.3	70-130	2.58	20	
Toluene	2.31	0.0500	"	2.50	ND	92.6	70-130	3.08	20	
Ethylbenzene	2.27	0.0500	"	2.50	ND	90.8	70-130	3.44	20	
m,p-Xylene	4.64	0.100	"	5.00	ND	92.9	70-130	3.69	20	
o-Xylene	2.36	0.0500	"	2.50	ND	94.2	70-130	1.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0809 - EPA 5030 (soil)

Matrix Spike Dup (B9D0809-MSD2)		Source: Y904154-02			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Benzene	2.29	0.0500	mg/kg	2.50	ND	91.6	70-130	2.01	20	
Toluene	2.18	0.0500	"	2.50	ND	87.1	70-130	2.18	20	
Ethylbenzene	2.12	0.0500	"	2.50	ND	85.0	70-130	4.26	20	
m,p-Xylene	4.33	0.100	"	5.00	ND	86.6	70-130	4.60	20	
o-Xylene	2.22	0.0500	"	2.50	ND	88.6	70-130	2.52	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

Blank (B9D0810-BLK1)

Prepared: 04/08/2019 Analyzed: 04/08/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	35		"	50.0		70.7	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

Blank (B9D0810-BLK2)

Prepared: 04/08/2019 Analyzed: 04/08/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	36		"	50.0		71.7	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

LCS (B9D0810-BS1)

Prepared: 04/08/2019 Analyzed: 04/08/2019

Diesel (C10-C28)	790	50.0	mg/kg	1000		79.0	70-130			
Surrogate: o-Terphenyl	42		"	50.0		83.5	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

LCS (B9D0810-BS2)

Prepared: 04/08/2019 Analyzed: 04/09/2019

Diesel (C10-C28)	735	50.0	mg/kg	1000		73.5	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

Matrix Spike (B9D0810-MS1)		Source: Y904154-01			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	752	50.0	mg/kg	1000	135	61.7	70-130			QM-07
Surrogate: o-Terphenyl	39		"	50.0		77.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

Matrix Spike (B9D0810-MS2)		Source: Y904102-02			Prepared: 04/08/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	889	50.0	mg/kg	1000	22.8	86.6	70-130			
Surrogate: o-Terphenyl	43		"	50.0		85.5	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

Matrix Spike Dup (B9D0810-MSD1)		Source: Y904154-01			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	792	50.0	mg/kg	1000	135	65.7	70-130	5.09	35	QM-07
Surrogate: o-Terphenyl	36		"	50.0		71.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0810 - EPA 3580

Matrix Spike Dup (B9D0810-MSD2)		Source: Y904102-02			Prepared: 04/08/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	853	50.0	mg/kg	1000	22.8	83.0	70-130	4.15	35	
Surrogate: o-Terphenyl	39		"	50.0		78.9	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



April 10, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 09, 2019. This project is associated with Origins project number Y904182-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH12-HA@11.5'	Y904182-01	Soil	April 9, 2019 10:30	04/09/2019 17:00
BH13-HA@4-5'	Y904182-02	Soil	April 9, 2019 14:00	04/09/2019 17:00
BH13-HA@13.5'	Y904182-03	Soil	April 9, 2019 14:30	04/09/2019 17:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

www.originslaboratory.com

1904182

page of

ORIGINS
LABORATORY, INC

Client: Tasman Geosciences / DCP
Address: 6899 Pecos St.
Denver, CO
Telephone Number: 303.265.7882
Email Address: bhumphrey@tasman-geo.com
Project Manager: Brian Humphrey
Project Name: DCP CR42 & CR13
Project Number:
Samples Collected By: S. Carrington

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
BH12 @ 11.5'	4/9/19	1420	1					X		2200 17.5' / 12.5' / 10.5' / 8.5' / 6.5' / 4.5' / 2.5' / 0.5'	1
BH13 @ 4-5'	4/9/19	1400	1					X			2
BH13 @ 17.5'	4/9/19	1430	1					X			3
											4
											5
											6
											7
											8
											9
											10

Relinquished By: James Carrington	Date: 4/9/19	Time: 1615	Received By: <i>[Signature]</i>	Date: 04/09/19	Time: 1700
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Temp Received: 47

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904182

Client: Tasman

Client Project ID: CR42 & CR13

Checklist Completed by: JG

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/9/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1 / 4.7 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — Is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 4/9/19

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH12-HA@11.5'
4/9/2019 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904182-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0903	JTD	04/09/2019	04/09/2019	U
Toluene	0.0990	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	0.174	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	29.9	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	75.2	50.0	mg/kg	1	B9D0907	JTD	"	04/09/2019
Surrogate: o-Terphenyl	62.4 %	50-150			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH13-HA@4-5'
4/9/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904182-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0903	JTD	04/09/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0907	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	59.5 %	50-150			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH13-HA@13.5'
4/9/2019 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904182-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D0903	JTD	04/09/2019	04/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0907	JTD	"	04/09/2019	U
Surrogate: o-Terphenyl	60.4 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0903 - EPA 5030 (soil)

Blank (B9D0903-BLK1)

Prepared: 04/09/2019 Analyzed: 04/09/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0903 - EPA 5030 (soil)										
Blank (B9D0903-BLK2)					Prepared: 04/09/2019 Analyzed: 04/09/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0903 - EPA 5030 (soil)

LCS (B9D0903-BS1)

Prepared: 04/09/2019 Analyzed: 04/09/2019

Benzene	0.0874	0.00200	mg/kg	0.100		87.4	70-130			
Toluene	0.0817	0.00200	"	0.100		81.7	70-130			
Ethylbenzene	0.0790	0.00200	"	0.100		79.0	70-130			
m,p-Xylene	0.163	0.00400	"	0.200		81.7	70-130			
o-Xylene	0.0834	0.00200	"	0.100		83.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0903 - EPA 5030 (soil)

LCS (B9D0903-BS2)

Prepared: 04/09/2019 Analyzed: 04/09/2019

Benzene	0.0985	0.00200	mg/kg	0.100		98.5	70-130			
Toluene	0.0950	0.00200	"	0.100		95.0	70-130			
Ethylbenzene	0.0905	0.00200	"	0.100		90.5	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.4	70-130			
o-Xylene	0.0941	0.00200	"	0.100		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0903 - EPA 5030 (soil)

Matrix Spike (B9D0903-MS1)		Source: Y904125-02			Prepared: 04/09/2019 Analyzed: 04/09/2019					
Benzene	2.60	0.0500	mg/kg	2.50	ND	104	70-130			
Toluene	2.46	0.0500	"	2.50	ND	98.4	70-130			
Ethylbenzene	2.41	0.0500	"	2.50	ND	96.2	70-130			
m,p-Xylene	4.95	0.100	"	5.00	ND	99.0	70-130			
o-Xylene	2.44	0.0500	"	2.50	ND	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0903 - EPA 5030 (soil)

Matrix Spike (B9D0903-MS2)		Source: Y904125-03			Prepared: 04/09/2019 Analyzed: 04/10/2019					
Benzene	2.20	0.0500	mg/kg	2.50	ND	88.0	70-130			
Toluene	2.05	0.0500	"	2.50	ND	82.0	70-130			
Ethylbenzene	1.94	0.0500	"	2.50	0.0400	76.2	70-130			
m,p-Xylene	4.43	0.100	"	5.00	0.517	78.2	70-130			
o-Xylene	2.29	0.0500	"	2.50	ND	91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0903 - EPA 5030 (soil)

Matrix Spike Dup (B9D0903-MSD1)		Source: Y904125-02			Prepared: 04/09/2019 Analyzed: 04/09/2019					
Benzene	2.57	0.0500	mg/kg	2.50	ND	103	70-130	1.28	20	
Toluene	2.44	0.0500	"	2.50	ND	97.7	70-130	0.775	20	
Ethylbenzene	2.38	0.0500	"	2.50	ND	95.0	70-130	1.25	20	
m,p-Xylene	4.83	0.100	"	5.00	ND	96.6	70-130	2.43	20	
o-Xylene	2.38	0.0500	"	2.50	ND	95.2	70-130	2.51	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0903 - EPA 5030 (soil)

Matrix Spike Dup (B9D0903-MSD2)		Source: Y904125-03			Prepared: 04/09/2019 Analyzed: 04/10/2019					
Benzene	2.27	0.0500	mg/kg	2.50	ND	90.7	70-130	3.02	20	
Toluene	2.16	0.0500	"	2.50	ND	86.2	70-130	5.07	20	
Ethylbenzene	1.95	0.0500	"	2.50	0.0400	76.3	70-130	0.154	20	
m,p-Xylene	4.37	0.100	"	5.00	0.517	77.0	70-130	1.38	20	
o-Xylene	2.12	0.0500	"	2.50	ND	84.8	70-130	7.95	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

Blank (B9D0907-BLK1)

Prepared: 04/09/2019 Analyzed: 04/09/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	32		"	50.0		63.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

Blank (B9D0907-BLK2)

Prepared: 04/09/2019 Analyzed: 04/09/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	35		"	50.0		71.0	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

LCS (B9D0907-BS1)

Prepared: 04/09/2019 Analyzed: 04/09/2019

Diesel (C10-C28)	726	50.0	mg/kg	1000		72.6	70-130			
Surrogate: o-Terphenyl	38		"	50.0		76.3	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

LCS (B9D0907-BS2)

Prepared: 04/09/2019 Analyzed: 04/09/2019

Diesel (C10-C28)	750	50.0	mg/kg	1000		75.0	70-130			
Surrogate: o-Terphenyl	35		"	50.0		70.3	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

Matrix Spike (B9D0907-MS1)		Source: Y904174-04			Prepared: 04/09/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	746	50.0	mg/kg	1000	23.5	72.3	70-130			
Surrogate: o-Terphenyl	38		"	50.0		76.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

Matrix Spike (B9D0907-MS2)		Source: Y904182-02			Prepared: 04/09/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	709	50.0	mg/kg	1000	15.8	69.3	70-130			QM-07
Surrogate: o-Terphenyl	35		"	50.0		69.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

Matrix Spike Dup (B9D0907-MSD1)		Source: Y904174-04			Prepared: 04/09/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	747	50.0	mg/kg	1000	23.5	72.4	70-130	0.131	35	
Surrogate: o-Terphenyl	38		"	50.0		75.5	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D0907 - EPA 3580

Matrix Spike Dup (B9D0907-MSD2)		Source: Y904182-02			Prepared: 04/09/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	690	50.0	mg/kg	1000	15.8	67.4	70-130	2.61	35	QM-07
Surrogate: o-Terphenyl	34		"	50.0		68.8	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



April 24, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 23, 2019. This project is associated with Origins project number Y904373-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH12@12.5'	Y904373-01	Soil	April 22, 2019 9:28	04/23/2019 07:20
BH12@16'	Y904373-02	Soil	April 22, 2019 9:42	04/23/2019 07:20
BH13@14'	Y904373-05	Soil	April 22, 2019 11:50	04/23/2019 07:20
BH13@17'	Y904373-06	Soil	April 22, 2019 12:00	04/23/2019 07:20
BH14@12.5'	Y904373-07	Soil	April 22, 2019 13:30	04/23/2019 07:20
BH14@18'	Y904373-08	Soil	April 22, 2019 13:46	04/23/2019 07:20
BH15@11.5'	Y904373-09	Soil	April 22, 2019 13:15	04/23/2019 07:20
BH15@16'	Y904373-10	Soil	April 22, 2019 13:25	04/23/2019 07:20
BH16@12'	Y904373-11	Soil	April 22, 2019 16:30	04/23/2019 07:20
BH16@14.5'	Y904373-12	Soil	April 22, 2019 16:40	04/23/2019 07:20

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

ORIGINS
LABORATORY, INC

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1904373

page 1 of 2

Client: Tasman / DCP
Address: 6899 Pecos St.
Telephone Number: 303-487-1228
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP CR42/CR13
Project Number:
Samples Collected By: B. Everett

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	8360 GPC + GPC	8015 DPC		
BH12 @ 12.5'	4/22/19	0928	1	X						X					1
BH12 @ 16'		0942													2
BH12 @ 18.5'		0948													HOLD until Notified to Run
BH12 @ 22.5'		0955													HOLD until Notified to Run
BH13 @ 14'		1150													5
BH13 @ 17'		1200													6
BH14 @ 12.5'		1330													7
BH14 @ 18'		1346													8
BH15 @ 11.5'		1315													9
BH15 @ 16'		1325													10
Relinquished By: [Signature]	Date: 4/23/19														Turnaround Time: 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: [Signature]	Date:														Date: 04.23.19 Time: 0720

Date Results Needed

Temp Received: 4.0

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

ORIGINS
LABORATORY, INC.

Client: Tasman / DCP

Address: 6899 Pecos St.
Denver, CO 80221

Telephone Number: 303-487-1228

Email Address: bhumphrey@tasman-gen.com

www.originslaboratory.com

page 2 of 2




y904373

Project Manager: Brian Humphrey

Project Name: DCP CR42 / CR13

Project Number: _____

Samples Collected By: B. Everett

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	8260/81EX + EAO	8015 D20				
BH16 @ 12'	4/22/19	1630	1	X					X				X				1
BH16 @ 14.5'	4/22/19	1640	1	X					X				X				2
																	3
																	4
																	5
																	6
																	7
																	8
																	9
																	10
Relinquished By: 	Date: 4/22/19		Time:	Received By: 	Date:	Time:	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>										
Relinquished By: 	Date:		Time:	Received By:	Date: 04/23/19	Time: 0720											

Date Results Needed

Temp Received-

Origins Laboratory, Inc.

Jeff Pellipini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904373

Client: Tasman

Client Project ID: DCP CR42 + 13

Checklist Completed by: JG

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/23/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 4.8 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/24/19

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH12@12.5'
4/22/2019 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	13.4	0.500	mg/kg	250	B9D2301	JTD	04/23/2019	04/24/2019
Toluene	24.3	0.500	"	"	"	JTD	"	"
Ethylbenzene	2.56	0.500	"	"	"	JTD	"	"
Xylenes, total	16.8	0.500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	630	50.0	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	04/23/2019
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	262	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	106 %	50-150			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH12@16'

4/22/2019 9:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00664	0.00200	mg/kg	1	B9D2301	JTD	04/23/2019	04/23/2019	
Toluene	0.00706	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

110 % 70-130
107 % 70-130
102 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	98.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH13@14'

4/22/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2301	JTD	04/23/2019	04/23/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	93.9 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH13@17'

4/22/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2301	JTD	04/23/2019	04/23/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	88.7 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH14@12.5'
4/22/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.140	0.0500	mg/kg	25	B9D2301	JTD	04/23/2019	04/23/2019	
Toluene	0.144	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	101 %	50-150			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH14@18'

4/22/2019 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2301	JTD	04/23/2019	04/24/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	93.4 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH15@11.5'
4/22/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.120	0.0500	mg/kg	25	B9D2301	JTD	04/23/2019	04/23/2019	
Toluene	0.368	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	0.0770	0.0500	"	"	"	JTD	"	"	
Xylenes, total	0.592	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	25.6	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	88.9 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH15@16'
4/22/2019 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00316	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	
Toluene	0.00352	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	91.9 %	50-150			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH16@12'

4/22/2019 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-11 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	6.27	0.500	mg/kg	250	B9D2307	JTD	04/23/2019	04/23/2019
Toluene	11.2	0.500	"	"	"	JTD	"	"
Ethylbenzene	1.26	0.500	"	"	"	JTD	"	"
Xylenes, total	8.60	0.500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	725	50.0	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	127	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	92.2 %	50-150			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH16@14.5'
4/22/2019 4:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904373-12 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00978	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	
Toluene	0.00830	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	87.5 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2301 - EPA 5030 (soil)										
Blank (B9D2301-BLK1)					Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2301 - EPA 5030 (soil)										
Blank (B9D2301-BLK2)					Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2301 - EPA 5030 (soil)										
LCS (B9D2301-BS1)					Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.0881	0.00200	mg/kg	0.100		88.1	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

LCS (B9D2301-BS2)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Benzene	0.0918	0.00200	mg/kg	0.100		91.8	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike (B9D2301-MS1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.0888	0.00200	mg/kg	0.100	0.00664	82.2	70-130			
Toluene	0.101	0.00200	"	0.100	0.00706	93.5	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	0.00166	101	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	0.00374	102	70-130			
o-Xylene	0.103	0.00200	"	0.100	0.00170	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike (B9D2301-MS2)		Source: Y904387-03			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	2.35	0.0500	mg/kg	2.50	ND	94.0	70-130			
Toluene	2.78	0.0500	"	2.50	ND	111	70-130			
Ethylbenzene	2.85	0.0500	"	2.50	ND	114	70-130			
m,p-Xylene	5.81	0.100	"	5.00	ND	116	70-130			
o-Xylene	2.79	0.0500	"	2.50	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike Dup (B9D2301-MSD1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.0936	0.00200	mg/kg	0.100	0.00664	86.9	70-130	5.20	20	
Toluene	0.109	0.00200	"	0.100	0.00706	102	70-130	7.72	20	
Ethylbenzene	0.111	0.00200	"	0.100	0.00166	109	70-130	8.32	20	
m,p-Xylene	0.224	0.00400	"	0.200	0.00374	110	70-130	7.21	20	
o-Xylene	0.110	0.00200	"	0.100	0.00170	109	70-130	7.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike Dup (B9D2301-MSD2)		Source: Y904387-03			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	2.36	0.0500	mg/kg	2.50	ND	94.2	70-130	0.234	20	
Toluene	2.80	0.0500	"	2.50	ND	112	70-130	0.627	20	
Ethylbenzene	2.89	0.0500	"	2.50	ND	116	70-130	1.15	20	
m,p-Xylene	5.84	0.100	"	5.00	ND	117	70-130	0.472	20	
o-Xylene	2.85	0.0500	"	2.50	ND	114	70-130	2.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Blank (B9D2302-BLK1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		90.2	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Blank (B9D2302-BLK2)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	49		"	50.0		97.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

LCS (B9D2302-BS1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

LCS (B9D2302-BS2)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike (B9D2302-MS1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike (B9D2302-MS2)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike Dup (B9D2302-MSD1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	70-130	4.59	35	
Surrogate: o-Terphenyl	45		"	50.0		89.9	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike Dup (B9D2302-MSD2)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	6.12	35	
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2307 - EPA 5030 (soil)

Blank (B9D2307-BLK1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	116		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.4		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2307 - EPA 5030 (soil)

LCS (B9D2307-BS1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Benzene	0.117	0.00200	mg/kg	0.100		117	70-130			
Toluene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
m,p-Xylene	0.234	0.00400	"	0.200		117	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2307 - EPA 5030 (soil)

Matrix Spike (B9D2307-MS1)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
Toluene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	0.00102	101	70-130			
o-Xylene	0.0998	0.00200	"	0.100	0.000500	99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2307 - EPA 5030 (soil)

Matrix Spike Dup (B9D2307-MSD1)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	1.77	20	
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130	8.66	20	
Ethylbenzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	13.5	20	
m,p-Xylene	0.180	0.00400	"	0.200	0.00102	89.3	70-130	11.9	20	
o-Xylene	0.0896	0.00200	"	0.100	0.000500	89.1	70-130	10.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.4	70-130			

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



April 24, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 23, 2019. This project is associated with Origins project number Y904386-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH17@8'	Y904386-01	Soil	April 23, 2019 9:30	04/23/2019 17:00
BH17@10'	Y904386-02	Soil	April 23, 2019 9:35	04/23/2019 17:00
BH18@12.5'	Y904386-03	Soil	April 23, 2019 9:45	04/23/2019 17:00
BH18@16'	Y904386-04	Soil	April 23, 2019 9:50	04/23/2019 17:00
BH19@11.5'	Y904386-05	Soil	April 23, 2019 10:05	04/23/2019 17:00
BH20@12'	Y904386-06	Soil	April 23, 2019 10:35	04/23/2019 17:00
BH20@14.5'	Y904386-07	Soil	April 23, 2019 10:40	04/23/2019 17:00
BH21@13-14'	Y904386-08	Soil	April 23, 2019 11:00	04/23/2019 17:00
BH21@15'	Y904386-09	Soil	April 23, 2019 11:05	04/23/2019 17:00
BH22@10'	Y904386-10	Soil	April 23, 2019 11:25	04/23/2019 17:00
BH22@11'	Y904386-11	Soil	April 23, 2019 11:30	04/23/2019 17:00
BH23@13.5'	Y904386-12	Soil	April 23, 2019 11:30	04/23/2019 17:00
BH24@12'	Y904386-13	Soil	April 23, 2019 12:55	04/23/2019 17:00
BH24@16'	Y904386-14	Soil	April 23, 2019 13:00	04/23/2019 17:00

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH24@18'	Y904386-15	Soil	April 23, 2019 13:15	04/23/2019 17:00
BH25@13'	Y904386-16	Soil	April 23, 2019 12:40	04/23/2019 17:00
BH26@12.5'	Y904386-17	Soil	April 23, 2019 14:30	04/23/2019 17:00
BH24@18' (RERUN)	Y904386-18	Soil	April 23, 2019 13:15	04/23/2019 17:00

Per the email from Brian on 04/24/19, sample BH24@18' was rerun for GBTEX to confirm results. He requested that the data from the rerun be reported in addition to the original results.

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

ORIGINS
LABORATORY, INC

7904386

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page 1 of 2

Client: Tasman / DCP
Address: 6899 Pecos St
Telephone Number: 303-396-7887
Email Address: bhumphre@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP - CR42 & CR13
Project Number: _____
Samples Collected By: J. Cunningham

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Continer #	Other	8260	
BH17 @ 8'	4/23/19	0930	1	X				X					1
BH17 @ 10'	4/23/19	0935											2
BH18 @ 12.5'		0945											3
BH18 @ 16'		0950											4
BH19 @ 11.5'		1005											5
BH20 @ 12'		1035											6
BH20 @ 14.5'		1040											7
BH21 @ 13-4'		1100											8
BH21 @ 15'		1105											9
BH22 @ 10'		1125											10

Relinquished By: James Cunningham Date: 4/23/19 Time: 1620
Relinquished By: _____ Date: _____ Time: _____

Received By: Joe Date: 04/23/19 Time: 1700
Received By: _____ Date: _____ Time: _____

Turnaround Time: Same Day ☒ 24 Hr ☐
48 Hr ☐ 72 Hr ☐ Standard ☐

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

www.originslaboratory.com

Y604386

page 2 of 2

ORIGINS
LABORATORY, INC

Client: Tasman/DCP
Address: 6899 Pecos St.
Denver, CO
Telephone Number: 303-796-7887
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 & CR13
Project Number: _____
Samples Collected By: J. Carrington

1725 Elk Place | Phone: 303.433.1322 | Fax: 303.265.9645 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Analysis	
BH22@11'	4/23/19	1130	1	X				X				X	1
BH23@13.5'	4/23/19	1130	1										2
BH24@12'	4/23/19	1255	1										3
BH24@16'	4/23/19	1300	1										4
BH24@18'	4/23/19	1315	1										5
BH25@13'	4/23/19	1240	1										6
BH26@12.5'	4/23/19	1430	1										7
													8
													9
													10

Relinquished By: [Signature] Date: 4/23/19 Time: 1630
Relinquished By: _____ Date: _____ Time: _____

Turnaround Time: Same Day ☒ 24 Hr ☐
48 Hr ☐ 72 Hr ☐
Standard ☐

Date Results Needed

5/9

Temp Received:

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1904386

Client: Tasman

Client Project ID: DCP CR42 & CR13

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/23/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 5.9 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

4/23/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH17@8'
4/23/2019 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	"	"	"
Surrogate: Toluene-d8	97.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.9 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	84.1 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH17@10'

4/23/2019 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2307	KDK	04/23/2019	04/24/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	98.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	83.8 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH18@12.5'
4/23/2019 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.245	0.0500	mg/kg	25	B9D2307	JTD	04/23/2019	04/24/2019
Toluene	0.816	0.0500	"	"	"	JTD	"	"
Ethylbenzene	0.165	0.0500	"	"	"	JTD	"	"
Xylenes, total	1.28	0.0500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	45.9	5.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	60.7	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	73.0 %	50-150			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH18@16'

4/23/2019 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00398	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	
Toluene	0.00318	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

122 % 70-130
98.4 % 70-130
90.3 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	79.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH19@11.5'

4/23/2019 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.638	0.0500	mg/kg	25	B9D2307	JTD	04/23/2019	04/24/2019	
Toluene	0.546	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	0.221	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	10.7	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.9 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	81.5 %	50-150			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH20@12'

4/23/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	22.1	0.500	mg/kg	250	B9D2307	JTD	04/23/2019	04/23/2019
Toluene	27.1	0.500	"	"	"	JTD	"	"
Ethylbenzene	2.34	0.500	"	"	"	JTD	"	"
Xylenes, total	15.9	0.500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	1520	50.0	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	97.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	204	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	92.8 %	50-150			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH20@14.5'

4/23/2019 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	24.1	0.500	mg/kg	250	B9D2307	JTD	04/23/2019	04/23/2019
Toluene	26.7	0.500	"	"	"	JTD	"	"
Ethylbenzene	2.14	0.500	"	"	"	JTD	"	"
Xylenes, total	14.3	0.500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	1320	50.0	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	212	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	95.6 %	50-150			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH21@13-14'

4/23/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	5.17	0.0500	mg/kg	25	B9D2307	JTD	04/23/2019	04/23/2019
Toluene	6.80	0.0500	"	"	"	JTD	"	"
Ethylbenzene	0.670	0.0500	"	"	"	JTD	"	"
Xylenes, total	4.38	0.0500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	445	5.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	96.8 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130	"	"	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	54.0	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	96.2 %	50-150			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH21@15'

4/23/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	12.8	0.500	mg/kg	250	B9D2307	KDK	04/23/2019	04/24/2019
Toluene	20.1	0.500	"	"	"	KDK	"	"
Ethylbenzene	1.94	0.500	"	"	"	KDK	"	"
Xylenes, total	12.7	0.500	"	"	"	KDK	"	"
Gasoline Range Hydrocarbons	806	50.0	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"		"
Surrogate: Toluene-d8	96.2 %	70-130			"	"		04/23/2019
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"		"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	64.9	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	87.6 %	50-150			"	"		"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH22@10'

4/23/2019 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	0.311	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.5 %	70-130	"	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	86.7 %	50-150	"	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH22@11'

4/23/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-11 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.6 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	86.7 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH23@13.5'

4/23/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-12 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019	U
Surrogate: o-Terphenyl	87.3 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH24@12'

4/23/2019 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-13 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	29.3	0.500	mg/kg	250	B9D2307	JTD	04/23/2019	04/23/2019
Toluene	51.0	0.500	"	"	"	JTD	"	"
Ethylbenzene	5.57	0.500	"	"	"	JTD	"	"
Xylenes, total	36.0	0.500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	2840	50.0	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	378	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	104 %	50-150			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH24@16'

4/23/2019 1:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-14 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.200	0.0500	mg/kg	25	B9D2307	JTD	04/23/2019	04/23/2019
Toluene	0.422	0.0500	"	"	"	JTD	"	"
Ethylbenzene	0.104	0.0500	"	"	"	JTD	"	"
Xylenes, total	0.815	0.0500	"	"	"	JTD	"	"
Gasoline Range Hydrocarbons	37.1	5.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.5 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	116	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/23/2019
Surrogate: o-Terphenyl	105 %	50-150			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH24@18'

4/23/2019 1:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-15 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.284	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/23/2019	
Toluene	0.158	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	0.00608	0.00200	"	"	"	JTD	"	"	
Xylenes, total	0.0386	0.00200	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	0.942	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.5 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/24/2019	U
Surrogate: o-Terphenyl	72.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH25@13'

4/23/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-16 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/24/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	99.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.8 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/24/2019	U
Surrogate: o-Terphenyl	88.4 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH26@12.5'
4/23/2019 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-17 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0138	0.00200	mg/kg	1	B9D2307	JTD	04/23/2019	04/24/2019	
Toluene	0.0273	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	0.00278	0.00200	"	"	"	JTD	"	"	
Xylenes, total	0.0216	0.00200	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	0.213	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2302	JTD	04/23/2019	04/24/2019	U
Surrogate: o-Terphenyl	88.0 %	50-150			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH24@18' (RERUN)
4/23/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904386-18 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0419	0.00200	mg/kg	1	B9D2301	JTD	04/23/2019	04/24/2019	
Toluene	0.0340	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	0.0118	0.00200	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2301 - EPA 5030 (soil)										
Blank (B9D2301-BLK1)					Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2301 - EPA 5030 (soil)										
Blank (B9D2301-BLK2)					Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

LCS (B9D2301-BS1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Benzene	0.0881	0.00200	mg/kg	0.100		88.1	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

LCS (B9D2301-BS2)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Benzene	0.0918	0.00200	mg/kg	0.100		91.8	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike (B9D2301-MS1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.0888	0.00200	mg/kg	0.100	0.00664	82.2	70-130			
Toluene	0.101	0.00200	"	0.100	0.00706	93.5	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	0.00166	101	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	0.00374	102	70-130			
o-Xylene	0.103	0.00200	"	0.100	0.00170	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike (B9D2301-MS2)		Source: Y904387-03			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	2.35	0.0500	mg/kg	2.50	ND	94.0	70-130			
Toluene	2.78	0.0500	"	2.50	ND	111	70-130			
Ethylbenzene	2.85	0.0500	"	2.50	ND	114	70-130			
m,p-Xylene	5.81	0.100	"	5.00	ND	116	70-130			
o-Xylene	2.79	0.0500	"	2.50	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike Dup (B9D2301-MSD1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.0936	0.00200	mg/kg	0.100	0.00664	86.9	70-130	5.20	20	
Toluene	0.109	0.00200	"	0.100	0.00706	102	70-130	7.72	20	
Ethylbenzene	0.111	0.00200	"	0.100	0.00166	109	70-130	8.32	20	
m,p-Xylene	0.224	0.00400	"	0.200	0.00374	110	70-130	7.21	20	
o-Xylene	0.110	0.00200	"	0.100	0.00170	109	70-130	7.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2301 - EPA 5030 (soil)

Matrix Spike Dup (B9D2301-MSD2)		Source: Y904387-03			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	2.36	0.0500	mg/kg	2.50	ND	94.2	70-130	0.234	20	
Toluene	2.80	0.0500	"	2.50	ND	112	70-130	0.627	20	
Ethylbenzene	2.89	0.0500	"	2.50	ND	116	70-130	1.15	20	
m,p-Xylene	5.84	0.100	"	5.00	ND	117	70-130	0.472	20	
o-Xylene	2.85	0.0500	"	2.50	ND	114	70-130	2.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Blank (B9D2302-BLK1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		90.2	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Blank (B9D2302-BLK2)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	49		"	50.0		97.9	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

LCS (B9D2302-BS1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

LCS (B9D2302-BS2)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike (B9D2302-MS1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike (B9D2302-MS2)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.2	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike Dup (B9D2302-MSD1)		Source: Y904373-02			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	70-130	4.59	35	
Surrogate: o-Terphenyl	45		"	50.0		89.9	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2302 - EPA 3580

Matrix Spike Dup (B9D2302-MSD2)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	6.12	35	
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2307 - EPA 5030 (soil)										
Blank (B9D2307-BLK1)					Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.4	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2307 - EPA 5030 (soil)

LCS (B9D2307-BS1)

Prepared: 04/23/2019 Analyzed: 04/23/2019

Benzene	0.117	0.00200	mg/kg	0.100		117	70-130			
Toluene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
m,p-Xylene	0.234	0.00400	"	0.200		117	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2307 - EPA 5030 (soil)

Matrix Spike (B9D2307-MS1)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
Toluene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	0.00102	101	70-130			
o-Xylene	0.0998	0.00200	"	0.100	0.000500	99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2307 - EPA 5030 (soil)

Matrix Spike Dup (B9D2307-MSD1)		Source: Y904386-01			Prepared: 04/23/2019 Analyzed: 04/23/2019					
Benzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	1.77	20	
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130	8.66	20	
Ethylbenzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	13.5	20	
m,p-Xylene	0.180	0.00400	"	0.200	0.00102	89.3	70-130	11.9	20	
o-Xylene	0.0896	0.00200	"	0.100	0.000500	89.1	70-130	10.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



April 29, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 26, 2019. This project is associated with Origins project number Y904462-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH27@16	Y904462-01	Soil	April 26, 2019 10:55	04/26/2019 16:45
BH27@18	Y904462-02	Soil	April 26, 2019 11:00	04/26/2019 16:45
BH28@2-3'	Y904462-03	Soil	April 26, 2019 15:15	04/26/2019 16:45
BH28@11'	Y904462-04	Soil	April 26, 2019 15:20	04/26/2019 16:45
BH29@13-14'	Y904462-05	Soil	April 26, 2019 12:55	04/26/2019 16:45
BH29@18'	Y904462-06	Soil	April 26, 2019 13:00	04/26/2019 16:45
BH30@16'	Y904462-07	Soil	April 26, 2019 14:00	04/26/2019 16:45
BH30@18'	Y904462-08	Soil	April 26, 2019 14:05	04/26/2019 16:45

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

ORIGINS
LABORATORY, INC

www.originslaboratory.com

490412

page 1 of 1

Client: Tasman / DCP
Address: 6899 Pecos St.
Denver, CO 80221
Telephone Number: 303-386-2827
Email Address: bhumphrey@tasman-geo.com
jeff@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 + CR13
Project Number: _____
Samples Collected By: J. Corry

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Canister #	Other	826	826/125	826/125	
BH27@16'	4/24/19	1055	1	X					X							1
BH27@18'		1100														2
BH28@2-3'		1515														3
BH28@11'		1520														4
BH29@13-14'		1255														5
BH29@18'		1300														6
BH30@16'		1400														7
DH30@18'		1405														8
																9
																10

Relinquished By: James Conner Date: 6/5 Time: 4/24/19 1645
Relinquished By: _____ Date: _____ Time: _____

Turnaround Time: 24 Hr ☒ 48 Hr ☐ 72 Hr ☐
Standard ☐

Date Results Needed

Temp Received: 7.5

Origins Laboratory, Inc.

Jeff Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4904462

Client: Tasman

Client Project ID: DCP CR42 + CR13

Checklist Completed by: D. Lee

Shipped Via: Pick-up
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4-26-19

Airbill #: NA

Matrix(s) Received: (Check all that apply): 1 Soil/Solid 1 Water 1 Other: 1 (Describe)

Cooler Number/Temperature: 1 / 2.5 °C 1 °C 1 °C 1 °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

4/29/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH27@16

4/26/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00620	0.00200	mg/kg	1	B9D2608	JTD	04/26/2019	04/26/2019	
Toluene	0.00216	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

117 % 70-130
105 % 70-130
103 % 70-130

" " "
" " "
" " "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
Surrogate: o-Terphenyl	94.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH27@18

4/26/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2608	JTD	04/26/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
Surrogate: o-Terphenyl	93.9 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH28@2-3'

4/26/2019 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0700	0.00200	mg/kg	1	B9D2608	JTD	04/26/2019	04/26/2019	
Toluene	0.0344	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	0.00540	0.00200	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	0.730	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
Surrogate: o-Terphenyl	83.3 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH28@11'

4/26/2019 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.0401	0.00200	mg/kg	1	B9D2608	JTD	04/26/2019	04/26/2019	
Toluene	0.0306	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	0.00670	0.00200	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	0.582	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
Surrogate: o-Terphenyl	83.8 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH29@13-14'

4/26/2019 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00230	0.00200	mg/kg	1	B9D2608	JTD	04/26/2019	04/26/2019	
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
Surrogate: o-Terphenyl	82.4 %	50-150	"	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH29@18'

4/26/2019 1:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.246	0.0500	mg/kg	25	B9D2608	JTD	04/26/2019	04/26/2019	
Toluene	0.453	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	0.0995	0.0500	"	"	"	JTD	"	"	
Xylenes, total	0.749	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	43.3	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
Surrogate: o-Terphenyl	84.7 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH30@16'

4/26/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.123	0.0500	mg/kg	25	B9D2608	JTD	04/26/2019	04/26/2019	
Toluene	0.146	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

111 % 70-130
106 % 70-130
101 % 70-130

" "
" "
" "

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
Surrogate: o-Terphenyl	88.3 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

BH30@18'

4/26/2019 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904462-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2608	JTD	04/26/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2602	JTD	04/26/2019	04/26/2019	U
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Surrogate: o-Terphenyl	97.8 %	50-150	"	"	"
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2602 - EPA 3580

Blank (B9D2602-BLK1)

Prepared: 04/26/2019 Analyzed: 04/26/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	44		"	50.0		87.1	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2602 - EPA 3580

LCS (B9D2602-BS1)

Prepared: 04/26/2019 Analyzed: 04/26/2019

Diesel (C10-C28)	1130	50.0	mg/kg				70-130			
Surrogate: o-Terphenyl	56		"	50.0		111	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2602 - EPA 3580

Matrix Spike (B9D2602-MS1)		Source: Y904431-01			Prepared: 04/26/2019 Analyzed: 04/26/2019					
Diesel (C10-C28)	1060	50.0	mg/kg		ND		70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2602 - EPA 3580

Matrix Spike Dup (B9D2602-MSD1)		Source: Y904431-01			Prepared: 04/26/2019 Analyzed: 04/26/2019					
Diesel (C10-C28)	1110	50.0	mg/kg		ND		70-130	4.27	35	
Surrogate: o-Terphenyl	51		"	50.0		103	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2608 - EPA 5030 (soil)										
Blank (B9D2608-BLK1)					Prepared: 04/26/2019 Analyzed: 04/26/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2608 - EPA 5030 (soil)										
LCS (B9D2608-BS1)					Prepared: 04/26/2019 Analyzed: 04/26/2019					
Benzene	0.0834	0.00200	mg/kg	0.100		83.4	70-130			
Toluene	0.0954	0.00200	"	0.100		95.4	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		102	70-130			
o-Xylene	0.0999	0.00200	"	0.100		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2608 - EPA 5030 (soil)

Matrix Spike (B9D2608-MS1)		Source: Y904462-01			Prepared: 04/26/2019 Analyzed: 04/26/2019					
Benzene	0.0987	0.00200	mg/kg	0.100	0.00620	92.5	70-130			
Toluene	0.104	0.00200	"	0.100	0.00216	102	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	0.000960	105	70-130			
m,p-Xylene	0.216	0.00400	"	0.200	0.00264	107	70-130			
o-Xylene	0.105	0.00200	"	0.100	0.00130	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2608 - EPA 5030 (soil)

Matrix Spike Dup (B9D2608-MSD1)		Source: Y904462-01			Prepared: 04/26/2019 Analyzed: 04/26/2019					
Benzene	0.0898	0.00200	mg/kg	0.100	0.00620	83.6	70-130	9.45	20	
Toluene	0.0973	0.00200	"	0.100	0.00216	95.1	70-130	7.00	20	
Ethylbenzene	0.0987	0.00200	"	0.100	0.000960	97.8	70-130	7.19	20	
m,p-Xylene	0.200	0.00400	"	0.200	0.00264	98.5	70-130	8.00	20	
o-Xylene	0.0980	0.00200	"	0.100	0.00130	96.7	70-130	6.95	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



May 10, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. May 09, 2019. This project is associated with Origins project number Y905128-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-09@19'-050819	Y905128-01	Soil	May 8, 2019 10:15	05/09/2019 09:20
MW-10@9.5'-050819	Y905128-02	Soil	May 8, 2019 11:50	05/09/2019 09:20
MW-10@18'-050819	Y905128-03	Soil	May 8, 2019 11:55	05/09/2019 09:20
MW-11@9'-050819	Y905128-04	Soil	May 8, 2019 13:13	05/09/2019 09:20
MW-11@18'-050819	Y905128-05	Soil	May 8, 2019 13:22	05/09/2019 09:20
MW-12@18.5'-050819	Y905128-06	Soil	May 8, 2019 15:00	05/09/2019 09:20

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

www.originslaboratory.com

page 1 of 1

1905128

ORIGINS LABORATORY, INC

Client: Tasman/DCP
Address: 6899 Pecos St.
Telephone Number: 303-396-7887

Project Manager/Send Report To: Brian Humphrey
Email Address: bhumphre@tasman-geo.com
Project Name/Number: CR42 & CR13
Samples Collected By: B. Everett

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
MW-9 @ 19' - 050819	5/18/19	1015	1	Unpreserved	Soil	8260 GrO + BTEX DZC	1
MW-10 @ 9.5' - 050819	5/18/19	1150	1	Unpreserved	Soil	X	2
MW-10 @ 18' - 050819		1155	1	Unpreserved	Soil	X	3
MW-11 @ 9' - 050819		1313	1	Unpreserved	Soil	X	4
MW-11 @ 18' - 050819		1322	1	Unpreserved	Soil	X	5
MW-12 @ 18.5' - 050819		1500	1	Unpreserved	Soil	X	6
				Unpreserved	Soil		7
				Unpreserved	Soil		8
				Unpreserved	Soil		9
				Unpreserved	Soil		10
Relinquished By: <i>Brian Humphrey</i>	Date: 5/19/19	Time: 0900		Received By: <i>Brian Humphrey</i>	Date: 5/19/19	Time: 0920	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: <i>Brian Everett</i>	Date: 5/19/19	Time: 0920		Received By: <i>Brian Everett</i>	Date: 5/19/19	Time: 0920	

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y 905128

Client: Tasman

Client Project ID: CR42 & CR13

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5 / 9 / 2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other:

(Describe)

Cooler Number/Temperature: 1 / 2.3 °C °C °C °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project Name pulled off jars.
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW-09@19'-050819
5/8/2019 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905128-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9E0903	JTD	05/09/2019	05/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"	"
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E0904	JTD	"	05/09/2019	U
Surrogate: o-Terphenyl	92.6 %	50-150			"	"	"		

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW-10@9.5'-050819
5/8/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905128-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9E0903	JTD	05/09/2019	05/09/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130	"	"	"
Surrogate: Toluene-d8	98.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E0904	JTD	"	05/09/2019	U
Surrogate: o-Terphenyl	78.2 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW-10@18'-050819
5/8/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905128-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9E0903	JTD	05/09/2019	05/09/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E0904	JTD	"	05/09/2019	U
Surrogate: o-Terphenyl	82.6 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW-11@9'-050819

5/8/2019 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905128-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9E0903	JTD	05/09/2019	05/09/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.0500	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E0904	JTD	"	05/09/2019	U
Surrogate: o-Terphenyl	82.4 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW-11@18'-050819

5/8/2019 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905128-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9E0903	JTD	05/09/2019	05/09/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E0904	JTD	"	05/09/2019	U
Surrogate: o-Terphenyl	89.4 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW-12@18.5'-050819

5/8/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905128-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9E0903	JTD	05/09/2019	05/09/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	97.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E0904	JTD	"	05/09/2019	U
Surrogate: o-Terphenyl	96.9 %	50-150			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E0903 - EPA 5030 (soil)										
Blank (B9E0903-BLK1)					Prepared: 05/09/2019 Analyzed: 05/09/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E0903 - EPA 5030 (soil)										
LCS (B9E0903-BS1)					Prepared: 05/09/2019 Analyzed: 05/09/2019					
Benzene	0.0957	0.00200	mg/kg	0.100		95.7	70-130			
Toluene	0.0954	0.00200	"	0.100		95.4	70-130			
Ethylbenzene	0.0938	0.00200	"	0.100		93.8	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.2	70-130			
o-Xylene	0.0948	0.00200	"	0.100		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0903 - EPA 5030 (soil)

Matrix Spike (B9E0903-MS1)		Source: Y905128-05			Prepared: 05/09/2019 Analyzed: 05/09/2019					
Benzene	0.0843	0.00200	mg/kg	0.100	ND	84.3	70-130			
Toluene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
Ethylbenzene	0.0799	0.00200	"	0.100	ND	79.9	70-130			
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.1	70-130			
o-Xylene	0.0810	0.00200	"	0.100	ND	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0903 - EPA 5030 (soil)

Matrix Spike Dup (B9E0903-MSD1)		Source: Y905128-05			Prepared: 05/09/2019 Analyzed: 05/09/2019					
Benzene	0.0794	0.00200	mg/kg	0.100	ND	79.4	70-130	5.94	20	
Toluene	0.0787	0.00200	"	0.100	ND	78.7	70-130	4.72	20	
Ethylbenzene	0.0744	0.00200	"	0.100	ND	74.4	70-130	7.13	20	
m,p-Xylene	0.146	0.00400	"	0.200	ND	73.2	70-130	7.69	20	
o-Xylene	0.0744	0.00200	"	0.100	ND	74.4	70-130	8.52	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

Blank (B9E0904-BLK1)

Prepared: 05/09/2019 Analyzed: 05/09/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	48		"	50.0		95.5	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

Blank (B9E0904-BLK2)

Prepared: 05/09/2019 Analyzed: 05/09/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

LCS (B9E0904-BS1)

Prepared: 05/09/2019 Analyzed: 05/09/2019

Diesel (C10-C28)	972	50.0	mg/kg	1000		97.2	70-130			
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

LCS (B9E0904-BS2)

Prepared: 05/09/2019 Analyzed: 05/09/2019

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	70-130			
Surrogate: o-Terphenyl	60		"	50.0		120	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

Matrix Spike (B9E0904-MS1)		Source: Y905114-01			Prepared: 05/09/2019 Analyzed: 05/09/2019					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Surrogate: o-Terphenyl	53		"	50.0		107	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

Matrix Spike (B9E0904-MS2)		Source: Y905114-02			Prepared: 05/09/2019 Analyzed: 05/09/2019					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	15.2	105	70-130			
Surrogate: o-Terphenyl	53		"	50.0		105	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

Matrix Spike Dup (B9E0904-MSD1)		Source: Y905114-01			Prepared: 05/09/2019 Analyzed: 05/09/2019					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	1.89	35	
Surrogate: o-Terphenyl	52		"	50.0		103	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E0904 - EPA 3550B

Matrix Spike Dup (B9E0904-MSD2)		Source: Y905114-02			Prepared: 05/09/2019 Analyzed: 05/09/2019					
Diesel (C10-C28)	880	50.0	mg/kg	1000	15.2	86.5	70-130	18.7	35	
Surrogate: o-Terphenyl	43		"	50.0		85.5	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



May 24, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. May 23, 2019. This project is associated with Origins project number Y905347-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW13@9.5'	Y905347-01	Soil	May 23, 2019 10:24	05/23/2019 17:00
MW13@18'	Y905347-02	Soil	May 23, 2019 10:45	05/23/2019 17:00
MW13@19'	Y905347-03	Soil	May 23, 2019 11:00	05/23/2019 17:00
MW14@11'	Y905347-04	Soil	May 23, 2019 13:00	05/23/2019 17:00
MW14@14'	Y905347-05	Soil	May 23, 2019 13:15	05/23/2019 17:00
MW14@18.5'	Y905347-06	Soil	May 23, 2019 13:20	05/23/2019 17:00
MW15@7'	Y905347-07	Soil	May 23, 2019 14:15	05/23/2019 17:00
MW15@12'	Y905347-08	Soil	May 23, 2019 14:20	05/23/2019 17:00
MW15@14'	Y905347-09	Soil	May 23, 2019 14:35	05/23/2019 17:00
MW15@18.5'	Y905347-10	Soil	May 23, 2019 14:45	05/23/2019 17:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

www.originslaboratory.com

Y905347

page 1 of 1

ORIGINS
LABORATORY, INC

Client: Tasman / DCP
Address: 6899 Pecos St.
Denver, CO 80221
Telephone Number: 303-520-0298
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 & CR13
Project Number:
Samples Collected By: J. Watts

1725 Elk Place | Phone: 303.433.1322 | Fax: 303.265.9645 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	
MW13@9.5'	5/23/19	1024	1	X				X				1
MW12@18'		1043										2
MW12@19'		1100										3
MW14@11'		1300										4
MW14@14'		1315										5
MW14@18.5'		1320										6
MW15@7'		1415										7
MW15@12'		1439										8
MW15@14'		1435										9
MW15@18.5'		1445										10
Relinquished By: <u>James Conrath</u>	Date: <u>5/22/19</u>	Time: <u>1700</u>	Received By: <u>Jim</u>	Date: <u>05/23/19</u>	Time: <u>1700</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:							

Date Results Needed

Temp Received: 4.9

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y905347

Client: Tasman

Client Project ID: DCP 42 + CR13

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/23/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 4.9 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the Case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed 5/23/19

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@9.5'

5/23/2019 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	86.6 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@9.5'

5/23/2019 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-01 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@9.5'

5/23/2019 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-01 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@9.5'

5/23/2019 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-01 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	96.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@18'

5/23/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
------------------	----	------	-------	---	---------	-----	------------	------------	---

Surrogate: o-Terphenyl	83.6 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@18'

5/23/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-02 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@18'

5/23/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y905347-02 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@18'

5/23/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-02 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	97.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@19'

5/23/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	72.4 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@19'

5/23/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-03 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@19'

5/23/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-03 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13@19'

5/23/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-03 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	95.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@11'

5/23/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	75.5 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@11'

5/23/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-04 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@11'

5/23/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-04 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@11'

5/23/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-04 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@14'
5/23/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	83.0 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@14'

5/23/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-05 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@14'

5/23/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-05 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@14'

5/23/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905347-05 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@18.5'
5/23/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-06 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	66.1 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/24/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@18.5'
5/23/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-06 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/24/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@18.5'

5/23/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-06 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/24/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14@18.5'
5/23/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-06 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/24/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@7'

5/23/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-07 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	73.3 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@7'

5/23/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-07 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@7'

5/23/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-07 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@7'

5/23/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-07 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.4 %	70-130	"	"	"
Surrogate: Toluene-d8	92.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@12'

5/23/2019 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-08 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	76.8 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@12'

5/23/2019 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-08 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@12'

5/23/2019 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-08 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@12'

5/23/2019 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-08 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	1.24	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@14'

5/23/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-09 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	79.6 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@14'

5/23/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-09 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@14'

5/23/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-09 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@14'

5/23/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-09 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@18.5'
5/23/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-10 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E2308	JTD	05/23/2019	05/23/2019	U
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Surrogate: o-Terphenyl	71.2 %	50-150			"	"	"		
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@18.5'
5/23/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-10 (Soil)

VOC by EPA 8260D

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	JTD	"	"	U
2-Butanone	ND	0.0100	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
2-Hexanone	ND	0.0100	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	JTD	"	"	U
Acetone	ND	0.0200	"	"	"	JTD	"	"	U
Benzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Bromoform	ND	0.00200	"	"	"	JTD	"	"	U
Bromomethane	ND	0.00200	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@18.5'
5/23/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-10 (Soil)

VOC by EPA 8260D

Carbon disulfide	ND	0.00500	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	JTD	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	JTD	"	"	U
Chloroethane	ND	0.00500	"	"	"	JTD	"	"	U
Chloroform	ND	0.00200	"	"	"	JTD	"	"	U
Chloromethane	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	JTD	"	"	U
Dibromomethane	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	JTD	"	"	U
Iodomethane	ND	0.0150	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	JTD	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	JTD	"	"	U
Naphthalene	ND	0.0100	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15@18.5'
5/23/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905347-10 (Soil)

VOC by EPA 8260D

n-Propylbenzene	ND	0.00200	mg/kg	1	B9E2304	JTD	05/23/2019	05/23/2019	U
o-Xylene	ND	0.00200	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Styrene	ND	0.00200	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	JTD	"	"	U
Trichloroethene	ND	0.00200	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	JTD	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130	"	"	"
Surrogate: Toluene-d8	98.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2304 - EPA 5030 (soil)

Blank (B9E2304-BLK1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg							U
1,1,1-Trichloroethane	ND	0.00200	"							U
1,1,2,2-Tetrachloroethane	ND	0.00200	"							U
1,1,2-Trichloroethane	ND	0.00200	"							U
1,1-Dichloroethane	ND	0.00200	"							U
1,1-Dichloroethene	ND	0.00200	"							U
1,1-Dichloropropene	ND	0.00200	"							U
1,2,3-Trichlorobenzene	ND	0.00500	"							U
1,2,3-Trichloropropane	ND	0.00500	"							U
1,2,4-Trichlorobenzene	ND	0.00500	"							U
1,2,4-Trimethylbenzene	ND	0.00200	"							U
1,2-Dibromo-3-chloropropane	ND	0.00500	"							U
1,2-Dibromoethane (EDB)	ND	0.00200	"							U
1,2-Dichlorobenzene	ND	0.00200	"							U
1,2-Dichloroethane	ND	0.00200	"							U
1,2-Dichloropropane	ND	0.00200	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
1,3-Dichlorobenzene	ND	0.00200	"							U
1,3-Dichloropropane	ND	0.00200	"							U
1,4-Dichlorobenzene	ND	0.00200	"							U
2,2-Dichloropropane	ND	0.00200	"							U
2-Butanone	ND	0.0100	"							U
2-Chlorotoluene	ND	0.00200	"							U
2-Hexanone	ND	0.0100	"							U
4-Chlorotoluene	ND	0.00200	"							U
4-Isopropyltoluene	ND	0.00200	"							U

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Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E2304 - EPA 5030 (soil)										
Blank (B9E2304-BLK1)					Prepared: 05/23/2019 Analyzed: 05/23/2019					
4-Methyl-2-pentanone	ND	0.0100	mg/kg							U
Acetone	ND	0.0200	"							U
Benzene	ND	0.00200	"							U
Bromobenzene	ND	0.00200	"							U
Bromochloromethane	ND	0.00200	"							U
Bromodichloromethane	ND	0.00200	"							U
Bromoform	ND	0.00200	"							U
Bromomethane	ND	0.00200	"							U
Carbon disulfide	ND	0.00500	"							U
Carbon tetrachloride	ND	0.00200	"							U
Chlorobenzene	ND	0.00200	"							U
Chloroethane	ND	0.00500	"							U
Chloroform	ND	0.00200	"							U
Chloromethane	ND	0.00200	"							U
cis-1,2-Dichloroethene	ND	0.00200	"							U
cis-1,3-Dichloropropene	ND	0.00200	"							U
Dibromochloromethane	ND	0.00200	"							U
Dibromomethane	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Hexachlorobutadiene	ND	0.00500	"							U
Iodomethane	ND	0.0150	"							U
Isopropylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Methyl tert-Butyl Ether	ND	0.00200	"							U
Methylene Chloride	ND	0.0200	"							U
Naphthalene	ND	0.0100	"							U

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E2304 - EPA 5030 (soil)										
Blank (B9E2304-BLK1)					Prepared: 05/23/2019 Analyzed: 05/23/2019					
n-Butylbenzene	ND	0.00200	mg/kg							U
n-Propylbenzene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
sec-Butylbenzene	ND	0.00200	"							U
Styrene	ND	0.00200	"							U
tert-Butylbenzene	ND	0.00200	"							U
Tetrachloroethene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
trans-1,2-Dichloroethene	ND	0.00200	"							U
trans-1,3-Dichloropropene	ND	0.00200	"							U
Trichloroethene	ND	0.00200	"							U
Trichlorofluoromethane	ND	0.00300	"							U
Vinyl chloride	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2304 - EPA 5030 (soil)

LCS (B9E2304-BS1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

1,1,1,2-Tetrachloroethane	0.0863	0.00200	mg/kg	0.100		86.3	70-130			
1,1,1-Trichloroethane	0.0899	0.00200	"	0.100		89.9	70-130			
1,1,2,2-Tetrachloroethane	0.0823	0.00200	"	0.100		82.3	70-130			
1,1,2-Trichloroethane	0.0854	0.00200	"	0.100		85.4	70-130			
1,1-Dichloroethane	0.0848	0.00200	"	0.100		84.8	70-130			
1,1-Dichloroethene	0.0860	0.00200	"	0.100		86.0	70-130			
1,1-Dichloropropene	0.0855	0.00200	"	0.100		85.5	70-130			
1,2,3-Trichlorobenzene	0.0771	0.00500	"	0.100		77.1	70-130			
1,2,3-Trichloropropane	0.0814	0.00500	"	0.100		81.4	70-130			
1,2,4-Trichlorobenzene	0.0805	0.00500	"	0.100		80.5	70-130			
1,2,4-Trimethylbenzene	0.0869	0.00200	"	0.100		86.9	70-130			
1,2-Dibromo-3-chloropropane	0.0887	0.00500	"	0.100		88.7	70-130			
1,2-Dibromoethane (EDB)	0.0889	0.00200	"	0.100		88.9	70-130			
1,2-Dichlorobenzene	0.0830	0.00200	"	0.100		83.0	70-130			
1,2-Dichloroethane	0.0884	0.00200	"	0.100		88.4	70-130			
1,2-Dichloropropane	0.0853	0.00200	"	0.100		85.3	70-130			
1,3,5-Trimethylbenzene	0.0860	0.00200	"	0.100		86.0	70-130			
1,3-Dichlorobenzene	0.0812	0.00200	"	0.100		81.2	70-130			
1,3-Dichloropropane	0.0849	0.00200	"	0.100		84.9	70-130			
1,4-Dichlorobenzene	0.0803	0.00200	"	0.100		80.3	70-130			
2,2-Dichloropropane	0.0918	0.00200	"	0.100		91.8	70-130			
2-Butanone	0.468	0.0100	"	0.500		93.6	70-130			
2-Chlorotoluene	0.0827	0.00200	"	0.100		82.7	70-130			
2-Hexanone	0.455	0.0100	"	0.500		91.0	70-130			
4-Chlorotoluene	0.0838	0.00200	"	0.100		83.8	70-130			
4-Isopropyltoluene	0.0878	0.00200	"	0.100		87.8	70-130			

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2304 - EPA 5030 (soil)

LCS (B9E2304-BS1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

4-Methyl-2-pentanone	0.450	0.0100	mg/kg	0.500		90.0	70-130			
Acetone	0.462	0.0200	"	0.500		92.4	70-130			
Benzene	0.0849	0.00200	"	0.100		84.9	70-130			
Bromobenzene	0.0843	0.00200	"	0.100		84.3	70-130			
Bromochloromethane	0.0923	0.00200	"	0.100		92.3	70-130			
Bromodichloromethane	0.0911	0.00200	"	0.100		91.1	70-130			
Bromoform	0.0918	0.00200	"	0.100		91.8	70-130			
Bromomethane	0.0889	0.00200	"	0.100		88.9	70-130			
Carbon disulfide	0.0869	0.00500	"	0.100		86.9	70-130			
Carbon tetrachloride	0.0893	0.00200	"	0.100		89.3	70-130			
Chlorobenzene	0.0823	0.00200	"	0.100		82.3	70-130			
Chloroethane	0.0968	0.00500	"	0.100		96.8	70-130			
Chloroform	0.0858	0.00200	"	0.100		85.8	70-130			
Chloromethane	0.0981	0.00200	"	0.100		98.1	70-130			
cis-1,2-Dichloroethene	0.0880	0.00200	"	0.100		88.0	70-130			
cis-1,3-Dichloropropene	0.0898	0.00200	"	0.100		89.8	70-130			
Dibromochloromethane	0.0926	0.00200	"	0.100		92.6	70-130			
Dibromomethane	0.0933	0.00200	"	0.100		93.3	70-130			
Ethylbenzene	0.0840	0.00200	"	0.100		84.0	70-130			
Hexachlorobutadiene	0.0774	0.00500	"	0.100		77.4	70-130			
Iodomethane	0.0927	0.0150	"	0.100		92.7	70-130			
Isopropylbenzene	0.0871	0.00200	"	0.100		87.1	70-130			
m,p-Xylene	0.188	0.00400	"	0.200		93.8	70-130			
Methyl tert-Butyl Ether	0.0920	0.00200	"	0.100		92.0	70-130			
Methylene Chloride	0.0866	0.0200	"	0.100		86.6	70-130			
Naphthalene	0.0832	0.0100	"	0.100		83.2	70-130			

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2304 - EPA 5030 (soil)

LCS (B9E2304-BS1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

n-Butylbenzene	0.0853	0.00200	mg/kg	0.100		85.3	70-130			
n-Propylbenzene	0.0849	0.00200	"	0.100		84.9	70-130			
o-Xylene	0.0866	0.00200	"	0.100		86.6	70-130			
sec-Butylbenzene	0.0861	0.00200	"	0.100		86.1	70-130			
Styrene	0.0897	0.00200	"	0.100		89.7	70-130			
tert-Butylbenzene	0.0862	0.00200	"	0.100		86.2	70-130			
Tetrachloroethene	0.0839	0.00200	"	0.100		83.9	70-130			
Toluene	0.0827	0.00200	"	0.100		82.7	70-130			
trans-1,2-Dichloroethene	0.0865	0.00200	"	0.100		86.5	70-130			
trans-1,3-Dichloropropene	0.0913	0.00200	"	0.100		91.3	70-130			
Trichloroethene	0.0855	0.00200	"	0.100		85.5	70-130			
Trichlorofluoromethane	0.109	0.00300	"	0.100		109	70-130			
Vinyl chloride	0.0911	0.00200	"	0.100		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E2304 - EPA 5030 (soil)										
Matrix Spike (B9E2304-MS1)		Source: Y905345-01			Prepared: 05/23/2019 Analyzed: 05/23/2019					
1,1,1,2-Tetrachloroethane	0.0819	0.00200	mg/kg	0.100	ND	81.9	70-130			
1,1,1-Trichloroethane	0.0901	0.00200	"	0.100	ND	90.1	70-130			
1,1,2,2-Tetrachloroethane	0.0803	0.00200	"	0.100	ND	80.3	70-130			
1,1,2-Trichloroethane	0.0858	0.00200	"	0.100	ND	85.8	70-130			
1,1-Dichloroethane	0.0843	0.00200	"	0.100	ND	84.3	70-130			
1,1-Dichloroethene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
1,1-Dichloropropene	0.0840	0.00200	"	0.100	ND	84.0	70-130			
1,2,3-Trichlorobenzene	0.0691	0.00500	"	0.100	ND	69.1	70-130			QM-07
1,2,3-Trichloropropane	0.0786	0.00500	"	0.100	ND	78.6	70-130			
1,2,4-Trichlorobenzene	0.0692	0.00500	"	0.100	ND	69.2	70-130			QM-07
1,2,4-Trimethylbenzene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
1,2-Dibromo-3-chloropropane	0.0880	0.00500	"	0.100	ND	88.0	70-130			
1,2-Dibromoethane (EDB)	0.0868	0.00200	"	0.100	ND	86.8	70-130			
1,2-Dichlorobenzene	0.0775	0.00200	"	0.100	ND	77.5	70-130			
1,2-Dichloroethane	0.0877	0.00200	"	0.100	ND	87.7	70-130			
1,2-Dichloropropane	0.0844	0.00200	"	0.100	ND	84.4	70-130			
1,3,5-Trimethylbenzene	0.0777	0.00200	"	0.100	ND	77.7	70-130			
1,3-Dichlorobenzene	0.0742	0.00200	"	0.100	ND	74.2	70-130			
1,3-Dichloropropane	0.0828	0.00200	"	0.100	ND	82.8	70-130			
1,4-Dichlorobenzene	0.0745	0.00200	"	0.100	ND	74.5	70-130			
2,2-Dichloropropane	0.0918	0.00200	"	0.100	ND	91.8	70-130			
2-Butanone	0.485	0.0100	"	0.500	ND	97.0	70-130			
2-Chlorotoluene	0.0777	0.00200	"	0.100	ND	77.7	70-130			
2-Hexanone	0.455	0.0100	"	0.500	ND	90.9	70-130			
4-Chlorotoluene	0.0773	0.00200	"	0.100	ND	77.3	70-130			
4-Isopropyltoluene	0.0742	0.00200	"	0.100	ND	74.2	70-130			

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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E2304 - EPA 5030 (soil)										
Matrix Spike (B9E2304-MS1)		Source: Y905345-01			Prepared: 05/23/2019 Analyzed: 05/23/2019					
4-Methyl-2-pentanone	0.448	0.0100	mg/kg	0.500	ND	89.6	70-130			
Acetone	0.489	0.0200	"	0.500	ND	97.9	70-130			
Benzene	0.0831	0.00200	"	0.100	ND	83.1	70-130			
Bromobenzene	0.0790	0.00200	"	0.100	ND	79.0	70-130			
Bromochloromethane	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Bromodichloromethane	0.0899	0.00200	"	0.100	ND	89.9	70-130			
Bromoform	0.0885	0.00200	"	0.100	ND	88.5	70-130			
Bromomethane	0.0890	0.00200	"	0.100	ND	89.0	70-130			
Carbon disulfide	0.0867	0.00500	"	0.100	ND	86.7	70-130			
Carbon tetrachloride	0.0898	0.00200	"	0.100	ND	89.8	70-130			
Chlorobenzene	0.0778	0.00200	"	0.100	ND	77.8	70-130			
Chloroethane	0.0974	0.00500	"	0.100	ND	97.4	70-130			
Chloroform	0.0841	0.00200	"	0.100	ND	84.1	70-130			
Chloromethane	0.0958	0.00200	"	0.100	ND	95.8	70-130			
cis-1,2-Dichloroethene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
cis-1,3-Dichloropropene	0.0860	0.00200	"	0.100	ND	86.0	70-130			
Dibromochloromethane	0.0889	0.00200	"	0.100	ND	88.9	70-130			
Dibromomethane	0.0935	0.00200	"	0.100	ND	93.5	70-130			
Ethylbenzene	0.0785	0.00200	"	0.100	ND	78.5	70-130			
Hexachlorobutadiene	0.0469	0.00500	"	0.100	ND	46.9	70-130			QM-07
Iodomethane	0.0923	0.0150	"	0.100	ND	92.3	70-130			
Isopropylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	87.1	70-130			
Methyl tert-Butyl Ether	0.0952	0.00200	"	0.100	ND	95.2	70-130			
Methylene Chloride	0.0887	0.0200	"	0.100	ND	88.7	70-130			
Naphthalene	0.0856	0.0100	"	0.100	ND	85.6	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2304 - EPA 5030 (soil)

Matrix Spike (B9E2304-MS1)		Source: Y905345-01			Prepared: 05/23/2019 Analyzed: 05/23/2019					
n-Butylbenzene	0.0692	0.00200	mg/kg	0.100	ND	69.2	70-130			QM-07
n-Propylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130			
o-Xylene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
sec-Butylbenzene	0.0727	0.00200	"	0.100	ND	72.7	70-130			
Styrene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
tert-Butylbenzene	0.0753	0.00200	"	0.100	ND	75.3	70-130			
Tetrachloroethene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
Toluene	0.0778	0.00200	"	0.100	ND	77.8	70-130			
trans-1,2-Dichloroethene	0.0857	0.00200	"	0.100	ND	85.7	70-130			
trans-1,3-Dichloropropene	0.0873	0.00200	"	0.100	ND	87.3	70-130			
Trichloroethene	0.0837	0.00200	"	0.100	ND	83.7	70-130			
Trichlorofluoromethane	0.109	0.00300	"	0.100	ND	109	70-130			
Vinyl chloride	0.0915	0.00200	"	0.100	ND	91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E2304 - EPA 5030 (soil)										
Matrix Spike Dup (B9E2304-MSD1)			Source: Y905345-01		Prepared: 05/23/2019 Analyzed: 05/23/2019					
1,1,1,2-Tetrachloroethane	0.0782	0.00200	mg/kg	0.100	ND	78.2	70-130	4.70	20	
1,1,1-Trichloroethane	0.0799	0.00200	"	0.100	ND	79.9	70-130	12.0	20	
1,1,2,2-Tetrachloroethane	0.0679	0.00200	"	0.100	ND	67.9	70-130	16.7	20	QM-07
1,1,2-Trichloroethane	0.0697	0.00200	"	0.100	ND	69.7	70-130	20.7	20	QM-07, QR-03
1,1-Dichloroethane	0.0751	0.00200	"	0.100	ND	75.1	70-130	11.5	20	
1,1-Dichloroethene	0.0776	0.00200	"	0.100	ND	77.6	70-130	10.8	20	
1,1-Dichloropropene	0.0767	0.00200	"	0.100	ND	76.7	70-130	9.08	20	
1,2,3-Trichlorobenzene	0.0572	0.00500	"	0.100	ND	57.2	70-130	18.8	20	QM-07
1,2,3-Trichloropropane	0.0660	0.00500	"	0.100	ND	66.0	70-130	17.4	20	QM-07
1,2,4-Trichlorobenzene	0.0601	0.00500	"	0.100	ND	60.1	70-130	14.0	20	QM-07
1,2,4-Trimethylbenzene	0.0722	0.00200	"	0.100	ND	72.2	70-130	8.92	20	
1,2-Dibromo-3-chloropropane	0.0746	0.00500	"	0.100	ND	74.6	70-130	16.5	20	
1,2-Dibromoethane (EDB)	0.0722	0.00200	"	0.100	ND	72.2	70-130	18.4	20	
1,2-Dichlorobenzene	0.0688	0.00200	"	0.100	ND	68.8	70-130	11.9	20	QM-07
1,2-Dichloroethane	0.0719	0.00200	"	0.100	ND	71.9	70-130	19.8	20	
1,2-Dichloropropane	0.0738	0.00200	"	0.100	ND	73.8	70-130	13.4	20	
1,3,5-Trimethylbenzene	0.0720	0.00200	"	0.100	ND	72.0	70-130	7.56	20	
1,3-Dichlorobenzene	0.0687	0.00200	"	0.100	ND	68.7	70-130	7.70	20	QM-07
1,3-Dichloropropane	0.0699	0.00200	"	0.100	ND	69.9	70-130	16.8	20	QM-07
1,4-Dichlorobenzene	0.0683	0.00200	"	0.100	ND	68.3	70-130	8.57	20	QM-07
2,2-Dichloropropane	0.0845	0.00200	"	0.100	ND	84.5	70-130	8.31	20	
2-Butanone	0.365	0.0100	"	0.500	ND	72.9	70-130	28.4	20	QR-02
2-Chlorotoluene	0.0723	0.00200	"	0.100	ND	72.3	70-130	7.20	20	
2-Hexanone	0.360	0.0100	"	0.500	ND	71.9	70-130	23.3	20	QR-02
4-Chlorotoluene	0.0726	0.00200	"	0.100	ND	72.6	70-130	6.27	20	
4-Isopropyltoluene	0.0665	0.00200	"	0.100	ND	66.5	70-130	10.9	20	QM-07

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E2304 - EPA 5030 (soil)										
Matrix Spike Dup (B9E2304-MSD1)			Source: Y905345-01		Prepared: 05/23/2019 Analyzed: 05/23/2019					
4-Methyl-2-pentanone	0.357	0.0100	mg/kg	0.500	ND	71.4	70-130	22.5	20	QR-02
Acetone	0.356	0.0200	"	0.500	ND	71.2	70-130	31.6	20	QR-02
Benzene	0.0746	0.00200	"	0.100	ND	74.6	70-130	10.8	20	
Bromobenzene	0.0736	0.00200	"	0.100	ND	73.6	70-130	7.18	20	
Bromochloromethane	0.0762	0.00200	"	0.100	ND	76.2	70-130	18.8	20	
Bromodichloromethane	0.0782	0.00200	"	0.100	ND	78.2	70-130	13.9	20	
Bromoform	0.0810	0.00200	"	0.100	ND	81.0	70-130	8.76	20	
Bromomethane	0.0815	0.00200	"	0.100	ND	81.5	70-130	8.89	20	
Carbon disulfide	0.0764	0.00500	"	0.100	ND	76.4	70-130	12.6	20	
Carbon tetrachloride	0.0793	0.00200	"	0.100	ND	79.3	70-130	12.5	20	
Chlorobenzene	0.0721	0.00200	"	0.100	ND	72.1	70-130	7.58	20	
Chloroethane	0.0870	0.00500	"	0.100	ND	87.0	70-130	11.3	20	
Chloroform	0.0748	0.00200	"	0.100	ND	74.8	70-130	11.7	20	
Chloromethane	0.0857	0.00200	"	0.100	ND	85.7	70-130	11.1	20	
cis-1,2-Dichloroethene	0.0771	0.00200	"	0.100	ND	77.1	70-130	11.1	20	
cis-1,3-Dichloropropene	0.0784	0.00200	"	0.100	ND	78.4	70-130	9.22	20	
Dibromochloromethane	0.0790	0.00200	"	0.100	ND	79.0	70-130	11.9	20	
Dibromomethane	0.0762	0.00200	"	0.100	ND	76.2	70-130	20.3	20	QR-02
Ethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130	1.90	20	
Hexachlorobutadiene	0.0350	0.00500	"	0.100	ND	35.0	70-130	29.0	20	QM-07, QR-03
Iodomethane	0.0817	0.0150	"	0.100	ND	81.7	70-130	12.2	20	
Isopropylbenzene	0.0755	0.00200	"	0.100	ND	75.5	70-130	4.98	20	
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.5	70-130	3.05	20	
Methyl tert-Butyl Ether	0.0739	0.00200	"	0.100	ND	73.9	70-130	25.3	20	QR-02
Methylene Chloride	0.0716	0.0200	"	0.100	ND	71.6	70-130	21.4	20	QR-02
Naphthalene	0.0707	0.0100	"	0.100	ND	70.7	70-130	19.0	20	

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E2304 - EPA 5030 (soil)										
Matrix Spike Dup (B9E2304-MSD1)	Source: Y905345-01				Prepared: 05/23/2019 Analyzed: 05/23/2019					
n-Butylbenzene	0.0595	0.00200	mg/kg	0.100	ND	59.5	70-130	15.0	20	QM-07
n-Propylbenzene	0.0716	0.00200	"	0.100	ND	71.6	70-130	7.03	20	
o-Xylene	0.0779	0.00200	"	0.100	ND	77.9	70-130	3.61	20	
sec-Butylbenzene	0.0648	0.00200	"	0.100	ND	64.8	70-130	11.5	20	QM-07
Styrene	0.0800	0.00200	"	0.100	ND	80.0	70-130	4.45	20	
tert-Butylbenzene	0.0697	0.00200	"	0.100	ND	69.7	70-130	7.81	20	QM-07
Tetrachloroethene	0.0741	0.00200	"	0.100	ND	74.1	70-130	6.22	20	
Toluene	0.0741	0.00200	"	0.100	ND	74.1	70-130	4.92	20	
trans-1,2-Dichloroethene	0.0770	0.00200	"	0.100	ND	77.0	70-130	10.6	20	
trans-1,3-Dichloropropene	0.0778	0.00200	"	0.100	ND	77.8	70-130	11.5	20	
Trichloroethene	0.0764	0.00200	"	0.100	ND	76.4	70-130	9.14	20	
Trichlorofluoromethane	0.0970	0.00300	"	0.100	ND	97.0	70-130	12.0	20	
Vinyl chloride	0.0808	0.00200	"	0.100	ND	80.8	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2308 - EPA 3580

Blank (B9E2308-BLK1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	44		"	50.0		87.3	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2308 - EPA 3580

LCS (B9E2308-BS1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

Diesel (C10-C28)	911	50.0	mg/kg	1000		91.1	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2308 - EPA 3580

Matrix Spike (B9E2308-MS1)		Source: Y905345-01			Prepared: 05/23/2019 Analyzed: 05/23/2019					
Diesel (C10-C28)	924	50.0	mg/kg	1000	25.7	89.8	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.0	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E2308 - EPA 3580

Matrix Spike Dup (B9E2308-MSD1)		Source: Y905345-01			Prepared: 05/23/2019 Analyzed: 05/23/2019					
Diesel (C10-C28)	917	50.0	mg/kg	1000	25.7	89.1	70-130	0.756	35	
Surrogate: o-Terphenyl	47		"	50.0		94.3	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Appendix E

Groundwater Sample Laboratory Analytical Results



May 31, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. May 30, 2019. This project is associated with Origins project number Y905431-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y905431-01	Water	May 30, 2019 13:30	05/30/2019 17:05
MW03	Y905431-02	Water	May 30, 2019 12:50	05/30/2019 17:05
MW04	Y905431-03	Water	May 30, 2019 13:20	05/30/2019 17:05
MW05	Y905431-04	Water	May 30, 2019 13:25	05/30/2019 17:05
MW07	Y905431-05	Water	May 30, 2019 11:55	05/30/2019 17:05
MW09	Y905431-06	Water	May 30, 2019 10:08	05/30/2019 17:05
MW10	Y905431-07	Water	May 30, 2019 11:30	05/30/2019 17:05
MW11	Y905431-08	Water	May 30, 2019 11:05	05/30/2019 17:05
MW12	Y905431-09	Water	May 30, 2019 11:45	05/30/2019 17:05
MW13	Y905431-10	Water	May 30, 2019 10:55	05/30/2019 17:05
MW14	Y905431-11	Water	May 30, 2019 12:10	05/30/2019 17:05
MW15	Y905431-12	Water	May 30, 2019 12:45	05/30/2019 17:05
Duplicate	Y905431-13	Water	May 30, 2019 0:00	05/30/2019 17:05

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

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page 1 of 2

1405431

ORIGINS LABORATORY, INC

Client: Tasman / DCP Mustang

Address: 6899 Pecos St. Denver, CO

Telephone Number: 303.396.7887

Email Address: bhumphrey@tasman-geo.com

Project Manager: B. HUMPHREY

Project Name: CR42/CR13 DCP MUSTANG

Project Number: CR42/CR13

Samples Collected By: JW/JC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
MW01	5/30/19	1330	3	X				X			8260	FULL SUITE 5 TICS	
MW03		1250											
MW04		1320											
MW05		1325											
MW07		1455											
MW09		1008											
MW10		1120											
MW11		1105											
MW12		1145											
MW13		1055											
Relinquished By:	Date:		Time:	Received By:	Date:	Time:	Turnaround Time:						
James Coughlin	5/30/19			[Signature]	05/31/19	1705	Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 5-7 Business Days						
Relinquished By:	Date:		Time:	Received By:	Date:	Time:							

Date Results Received

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

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page 2 of 2

1905431

ORIGINS
LABORATORY, INC

Client: Tasman / DCP Midstream
Address: 6899 Pecos St. Denver, CO
Telephone Number: 303.396.7887
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP Midstream
Project Number: CR42/CR13
Samples Collected By: JW/SC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
MW14	5/30/19	1210	3	X				X				8260	Full Suite + TICS 1
MW15	1245		1									I	2
DUPLICATE		0000											3
													4
													5
													6
													7
													8
													9
													10
Relinquished By: James Conington	Date: 5/30/19											Date: 05/30/19	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> - 9W 58/19
Relinquished By:	Date:											Date:	

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y905431

Client: Tasman

Client Project ID: DCP CR 42 & 13

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/30/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

Soil/Solid

☒ Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 5.3 °C / °C / °C / °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

Date/Time Reviewed 5/31/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW01

5/30/2019 1:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-01 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	66.4	1.00	"	"	"	JTD	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	22.0	1.00	"	"	"	JTD	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW01

5/30/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-01 (Water)

VOC by EPA 8260D

2,2-Dichloropropane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	3930	100	"	100	"	JTD	"	05/31/2019	
Bromobenzene	ND	1.00	"	1	"	JTD	"	05/30/2019	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U
Chloroform	1.02	1.00	"	"	"	JTD	"	"	
Chloromethane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW01

5/30/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-01 (Water)

VOC by EPA 8260D

cis-1,2-Dichloroethene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	111	1.00	"	"	"	JTD	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	8.29	1.00	"	"	"	JTD	"	"	
m,p-Xylene	636	200	"	100	"	JTD	"	05/31/2019	
Methylene Chloride	ND	5.00	"	1	"	JTD	"	05/30/2019	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	7.57	4.00	"	"	"	JTD	"	"	
n-Butylbenzene	1.92	1.00	"	"	"	JTD	"	"	
n-Propylbenzene	11.4	1.00	"	"	"	JTD	"	"	
o-Xylene	232	100	"	100	"	JTD	"	05/31/2019	
sec-Butylbenzene	1.29	1.00	"	1	"	JTD	"	05/30/2019	
Styrene	ND	1.00	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	2620	100	"	100	"	JTD	"	05/31/2019	
trans-1,2-Dichloroethene	ND	1.00	"	1	"	JTD	"	05/30/2019	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW01

5/30/2019 1:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-01 (Water)

VOC by EPA 8260D

trans-1,3-Dichloropropene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	70.8 %	70-130	"	"	"
Surrogate: Toluene-d8	88.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW03

5/30/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-02 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	6.63	1.00	"	"	"	JTD	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	2.10	1.00	"	"	"	JTD	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW03

5/30/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-02 (Water)

VOC by EPA 8260D

2,2-Dichloropropane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	918	20.0	"	20	"	JTD	"	05/31/2019	
Bromobenzene	ND	1.00	"	1	"	JTD	"	05/30/2019	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U
Chloroform	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW03

5/30/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-02 (Water)

VOC by EPA 8260D

Chloromethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	4.78	1.00	"	"	"	JTD	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	JTD	"	"	U
m,p-Xylene	68.2	2.00	"	"	"	JTD	"	"	
Methylene Chloride	ND	5.00	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	JTD	"	"	U
o-Xylene	24.5	1.00	"	"	"	JTD	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Styrene	ND	1.00	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW03

5/30/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-02 (Water)

VOC by EPA 8260D

Toluene	108	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW04

5/30/2019 1:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-03 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	28.8	1.00	"	"	"	JTD	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	12.9	1.00	"	"	"	JTD	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW04

5/30/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-03 (Water)

VOC by EPA 8260D

2,2-Dichloropropane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	6720	100	"	100	"	JTD	"	05/31/2019	
Bromobenzene	ND	1.00	"	1	"	JTD	"	05/30/2019	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U
Chloroform	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW04

5/30/2019 1:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-03 (Water)

VOC by EPA 8260D

Chloromethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/30/2019	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	56.9	1.00	"	"	"	JTD	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	3.78	1.00	"	"	"	JTD	"	"	
m,p-Xylene	323	2.00	"	"	"	JTD	"	"	
Methylene Chloride	ND	5.00	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
n-Propylbenzene	4.29	1.00	"	"	"	JTD	"	"	
o-Xylene	148	1.00	"	"	"	JTD	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Styrene	ND	1.00	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW04

5/30/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-03 (Water)

VOC by EPA 8260D

Toluene	2340	100	ug/L	100	B9E3011	JTD	05/30/2019	05/31/2019	
trans-1,2-Dichloroethene	ND	1.00	"	1	"	JTD	"	05/30/2019	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	05/31/2019
Surrogate: Toluene-d8	92.4 %	70-130			"	"	05/30/2019
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW05

5/30/2019 1:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-04 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	22.9	1.00	"	"	"	KDK	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	9.84	1.00	"	"	"	KDK	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW05

5/30/2019 1:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-04 (Water)

VOC by EPA 8260D

2,2-Dichloropropane	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	1160	50.0	"	50	"	JTD	"	05/31/2019	
Bromobenzene	ND	1.00	"	1	"	KDK	"	05/31/2019	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U
Chloroform	ND	1.00	"	"	"	KDK	"	"	U

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW05

5/30/2019 1:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-04 (Water)

VOC by EPA 8260D

Chloromethane	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	46.9	1.00	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	3.20	1.00	"	"	"	KDK	"	"	
m,p-Xylene	220	2.00	"	"	"	KDK	"	"	
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	4.34	1.00	"	"	"	KDK	"	"	
o-Xylene	80.0	1.00	"	"	"	KDK	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW05

5/30/2019 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-04 (Water)

VOC by EPA 8260D

Toluene	705	50.0	ug/L	50	B9E3011	JTD	05/30/2019	05/31/2019	
trans-1,2-Dichloroethene	ND	1.00	"	1	"	KDK	"	05/31/2019	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130	"	"	"
Surrogate: Toluene-d8	89.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW07

5/30/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-05 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	1.33	1.00	"	"	"	KDK	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW07

5/30/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-05 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	352	50.0	"	50	"	JTD	"	05/31/2019	
Bromobenzene	ND	1.00	"	1	"	KDK	"	05/31/2019	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW07

5/30/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-05 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	4.64	1.00	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	26.4	2.00	"	"	"	KDK	"	"	
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	10.3	1.00	"	"	"	KDK	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW07

5/30/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-05 (Water)

VOC by EPA 8260D

Tetrachloroethene	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
Toluene	161	1.00	"	"	"	KDK	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	92.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW09

5/30/2019 10:08:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-06 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW09

5/30/2019 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-06 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	ND	1.00	"	"	"	JTD	"	05/31/2019	U
Bromobenzene	ND	1.00	"	"	"	JTD	"	05/31/2019	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW09

5/30/2019 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-06 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	JTD	"	"	U
m,p-Xylene	ND	2.00	"	"	"	JTD	"	"	U
Methylene Chloride	ND	5.00	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	JTD	"	"	U
o-Xylene	ND	1.00	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Styrene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW09

5/30/2019 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-06 (Water)

VOC by EPA 8260D

tert-Butylbenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	ND	1.00	"	"	"	JTD	"	05/31/2019	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	05/31/2019	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	95.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW10

5/30/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-07 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW10

5/30/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-07 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	ND	1.00	"	"	"	JTD	"	"	U
Bromobenzene	ND	1.00	"	"	"	JTD	"	"	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW10

5/30/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-07 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	JTD	"	"	U
m,p-Xylene	ND	2.00	"	"	"	JTD	"	"	U
Methylene Chloride	ND	5.00	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	JTD	"	"	U
o-Xylene	ND	1.00	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Styrene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW10

5/30/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-07 (Water)

VOC by EPA 8260D

tert-Butylbenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.5 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW11

5/30/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-08 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW11

5/30/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-08 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	11.4	8.00	"	"	"	KDK	"	"	
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW11

5/30/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-08 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	ND	2.00	"	"	"	KDK	"	"	U
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	ND	1.00	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW11

5/30/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-08 (Water)

VOC by EPA 8260D

tert-Butylbenzene	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	93.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW12

5/30/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-09 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW12

5/30/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-09 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	ND	1.00	"	"	"	JTD	"	"	U
Bromobenzene	ND	1.00	"	"	"	JTD	"	"	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW12

5/30/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-09 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	JTD	"	"	U
m,p-Xylene	ND	2.00	"	"	"	JTD	"	"	U
Methylene Chloride	ND	5.00	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	JTD	"	"	U
o-Xylene	ND	1.00	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Styrene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW12

5/30/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-09 (Water)

VOC by EPA 8260D

tert-Butylbenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	93.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13

5/30/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-10 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13

5/30/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-10 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	ND	1.00	"	"	"	JTD	"	"	U
Bromobenzene	ND	1.00	"	"	"	JTD	"	"	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13

5/30/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-10 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	JTD	"	"	U
m,p-Xylene	ND	2.00	"	"	"	JTD	"	"	U
Methylene Chloride	ND	5.00	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	JTD	"	"	U
o-Xylene	ND	1.00	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Styrene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW13

5/30/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-10 (Water)

VOC by EPA 8260D

tert-Butylbenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	96.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14

5/30/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-11 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14

5/30/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-11 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	125	1.00	"	"	"	KDK	"	"	
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14

5/30/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-11 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	4.06	2.00	"	"	"	KDK	"	"	
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	2.81	1.00	"	"	"	KDK	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW14

5/30/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-11 (Water)

VOC by EPA 8260D

Tetrachloroethene	ND	1.00	ug/L	1	B9E3011	KDK	05/30/2019	05/31/2019	U
Toluene	47.6	1.00	"	"	"	KDK	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	"	"	"
Surrogate: Toluene-d8	92.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15

5/30/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-12 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15

5/30/2019 12:45:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-12 (Water)

VOC by EPA 8260D

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	ND	1.00	"	"	"	JTD	"	"	U
Bromobenzene	ND	1.00	"	"	"	JTD	"	"	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15

5/30/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-12 (Water)

VOC by EPA 8260D

Chloroform	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Chloromethane	ND	1.00	"	"	"	JTD	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	JTD	"	"	U
m,p-Xylene	ND	2.00	"	"	"	JTD	"	"	U
Methylene Chloride	ND	5.00	"	"	"	JTD	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	JTD	"	"	U
o-Xylene	ND	1.00	"	"	"	JTD	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Styrene	ND	1.00	"	"	"	JTD	"	"	U

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

MW15

5/30/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-12 (Water)

VOC by EPA 8260D

tert-Butylbenzene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130	"	"	"
Surrogate: Toluene-d8	97.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Duplicate

5/30/2019 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-13 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	57.1	1.00	"	"	"	JTD	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	19.2	1.00	"	"	"	JTD	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Duplicate

5/30/2019 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-13 (Water)

VOC by EPA 8260D

2,2-Dichloropropane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	ND	8.00	"	"	"	JTD	"	"	U
Benzene	3510	100	"	100	"	JTD	"	05/31/2019	
Bromobenzene	ND	1.00	"	1	"	JTD	"	05/31/2019	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U
Chloroform	ND	1.00	"	"	"	JTD	"	"	U

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

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5/30/2019 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-13 (Water)

VOC by EPA 8260D

Chloromethane	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	100	1.00	"	"	"	JTD	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	7.34	1.00	"	"	"	JTD	"	"	
m,p-Xylene	585	200	"	100	"	JTD	"	05/31/2019	
Methylene Chloride	ND	5.00	"	1	"	JTD	"	05/31/2019	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	6.20	4.00	"	"	"	JTD	"	"	
n-Butylbenzene	1.75	1.00	"	"	"	JTD	"	"	
n-Propylbenzene	10.3	1.00	"	"	"	JTD	"	"	
o-Xylene	216	100	"	100	"	JTD	"	05/31/2019	
sec-Butylbenzene	1.15	1.00	"	1	"	JTD	"	05/31/2019	
Styrene	ND	1.00	"	"	"	JTD	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	2380	100	"	100	"	JTD	"	05/31/2019	

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Duplicate

5/30/2019 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y905431-13 (Water)

VOC by EPA 8260D

trans-1,2-Dichloroethene	ND	1.00	ug/L	1	B9E3011	JTD	05/30/2019	05/31/2019	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.6 %	70-130	"	"	"
Surrogate: Toluene-d8	87.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E3011 - EPA 5030B (Water)

Blank (B9E3011-BLK1)

Prepared: 05/30/2019 Analyzed: 05/30/2019

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
1,1,1-Trichloroethane	ND	1.00	"							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.00	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	5.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E3011 - EPA 5030B (Water)										
Blank (B9E3011-BLK1)					Prepared: 05/30/2019 Analyzed: 05/30/2019					
4-Methyl-2-pentanone	ND	5.00	ug/L							U
Acetone	ND	8.00	"							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	5.00	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E3011 - EPA 5030B (Water)										
Blank (B9E3011-BLK1)					Prepared: 05/30/2019 Analyzed: 05/30/2019					
n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E3011 - EPA 5030B (Water)

LCS (B9E3011-BS1)

Prepared: 05/30/2019 Analyzed: 05/30/2019

1,1,1,2-Tetrachloroethane	50.8	1.00	ug/L	50.0		102	70-130			
1,1,1-Trichloroethane	55.9	1.00	"	50.0		112	70-130			
1,1,2,2-Tetrachloroethane	53.0	1.00	"	50.0		106	70-130			
1,1,2-Trichloroethane	53.2	1.00	"	50.0		106	70-130			
1,1-Dichloroethane	57.9	1.00	"	50.0		116	70-130			
1,1-Dichloroethene	58.5	1.00	"	50.0		117	70-130			
1,1-Dichloropropene	58.2	1.00	"	50.0		116	70-130			
1,2,3-Trichlorobenzene	52.7	5.00	"	50.0		105	70-130			
1,2,3-Trichloropropane	53.3	5.00	"	50.0		107	70-130			
1,2,4-Trichlorobenzene	53.7	5.00	"	50.0		107	70-130			
1,2,4-Trimethylbenzene	52.7	1.00	"	50.0		105	70-130			
1,2-Dibromo-3-chloropropane	51.9	5.00	"	50.0		104	70-130			
1,2-Dibromoethane (EDB)	51.8	1.00	"	50.0		104	70-130			
1,2-Dichlorobenzene	52.2	1.00	"	50.0		104	70-130			
1,2-Dichloroethane	58.0	1.00	"	50.0		116	70-130			
1,2-Dichloropropane	58.3	1.00	"	50.0		117	70-130			
1,3,5-Trimethylbenzene	52.0	1.00	"	50.0		104	70-130			
1,3-Dichlorobenzene	52.7	1.00	"	50.0		105	70-130			
1,3-Dichloropropane	54.4	1.00	"	50.0		109	70-130			
1,4-Dichlorobenzene	52.1	1.00	"	50.0		104	70-130			
2,2-Dichloropropane	60.0	1.00	"	50.0		120	70-130			
2-Butanone	303	5.00	"	250		121	70-130			
2-Chlorotoluene	52.6	1.00	"	50.0		105	70-130			
2-Hexanone	283	5.00	"	250		113	70-130			
4-Chlorotoluene	52.6	1.00	"	50.0		105	70-130			
4-Isopropyltoluene	52.2	1.00	"	50.0		104	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E3011 - EPA 5030B (Water)										
LCS (B9E3011-BS1)					Prepared: 05/30/2019 Analyzed: 05/30/2019					
4-Methyl-2-pentanone	278	5.00	ug/L	250		111	70-130			
Acetone	299	8.00	"	250		120	70-130			
Benzene	58.5	1.00	"	50.0		117	70-130			
Bromobenzene	52.4	1.00	"	50.0		105	70-130			
Bromochloromethane	53.7	1.00	"	50.0		107	70-130			
Bromodichloromethane	53.7	1.00	"	50.0		107	70-130			
Bromoform	50.8	1.00	"	50.0		102	70-130			
Bromomethane	50.6	1.00	"	50.0		101	70-130			
Carbon disulfide	54.6	5.00	"	50.0		109	70-130			
Carbon tetrachloride	55.4	1.00	"	50.0		111	70-130			
Chlorobenzene	53.5	1.00	"	50.0		107	70-130			
Chloroethane	48.6	1.00	"	50.0		97.3	70-130			
Chloroform	56.9	1.00	"	50.0		114	70-130			
Chloromethane	51.9	1.00	"	50.0		104	70-130			
cis-1,2-Dichloroethene	58.6	1.00	"	50.0		117	70-130			
cis-1,3-Dichloropropene	51.6	1.00	"	50.0		103	70-130			
Dibromochloromethane	52.0	1.00	"	50.0		104	70-130			
Dibromomethane	54.8	1.00	"	50.0		110	70-130			
Ethylbenzene	52.1	1.00	"	50.0		104	70-130			
Hexachlorobutadiene	50.8	5.00	"	50.0		102	70-130			
Iodomethane	56.3	10.0	"	50.0		113	70-130			
Isopropylbenzene	52.1	1.00	"	50.0		104	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Methylene Chloride	63.2	5.00	"	50.0		126	70-130			
Methyl tert-Butyl Ether	57.3	1.00	"	50.0		115	70-130			
Naphthalene	52.6	4.00	"	50.0		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E3011 - EPA 5030B (Water)

LCS (B9E3011-BS1)

Prepared: 05/30/2019 Analyzed: 05/30/2019

n-Butylbenzene	52.5	1.00	ug/L	50.0		105	70-130			
n-Propylbenzene	52.5	1.00	"	50.0		105	70-130			
o-Xylene	52.1	1.00	"	50.0		104	70-130			
sec-Butylbenzene	52.1	1.00	"	50.0		104	70-130			
Styrene	50.8	1.00	"	50.0		102	70-130			
tert-Butylbenzene	51.8	1.00	"	50.0		104	70-130			
Tetrachloroethene	52.7	1.00	"	50.0		105	70-130			
Toluene	53.5	1.00	"	50.0		107	70-130			
trans-1,2-Dichloroethene	58.0	1.00	"	50.0		116	70-130			
trans-1,3-Dichloropropene	53.3	1.00	"	50.0		107	70-130			
Trichloroethene	57.4	1.00	"	50.0		115	70-130			
Trichlorofluoromethane	50.3	1.00	"	50.0		101	70-130			
Vinyl chloride	51.1	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E3011 - EPA 5030B (Water)

Matrix Spike (B9E3011-MS1)		Source: Y905431-08			Prepared: 05/30/2019 Analyzed: 05/31/2019					
1,1,1,2-Tetrachloroethane	48.2	1.00	ug/L	50.0	ND	96.3	70-130			
1,1,1-Trichloroethane	57.3	1.00	"	50.0	ND	115	70-130			
1,1,2,2-Tetrachloroethane	48.4	1.00	"	50.0	ND	96.7	70-130			
1,1,2-Trichloroethane	49.8	1.00	"	50.0	ND	99.6	70-130			
1,1-Dichloroethane	56.4	1.00	"	50.0	ND	113	70-130			
1,1-Dichloroethene	59.3	1.00	"	50.0	ND	119	70-130			
1,1-Dichloropropene	56.5	1.00	"	50.0	ND	113	70-130			
1,2,3-Trichlorobenzene	50.8	5.00	"	50.0	0.240	101	70-130			
1,2,3-Trichloropropane	49.3	5.00	"	50.0	ND	98.6	70-130			
1,2,4-Trichlorobenzene	52.1	5.00	"	50.0	0.140	104	70-130			
1,2,4-Trimethylbenzene	49.6	1.00	"	50.0	ND	99.3	70-130			
1,2-Dibromo-3-chloropropane	48.2	5.00	"	50.0	ND	96.4	70-130			
1,2-Dibromoethane (EDB)	47.3	1.00	"	50.0	ND	94.7	70-130			
1,2-Dichlorobenzene	49.2	1.00	"	50.0	ND	98.3	70-130			
1,2-Dichloroethane	57.4	1.00	"	50.0	ND	115	70-130			
1,2-Dichloropropane	55.4	1.00	"	50.0	ND	111	70-130			
1,3,5-Trimethylbenzene	49.9	1.00	"	50.0	ND	99.7	70-130			
1,3-Dichlorobenzene	49.2	1.00	"	50.0	ND	98.5	70-130			
1,3-Dichloropropane	49.6	1.00	"	50.0	ND	99.1	70-130			
1,4-Dichlorobenzene	48.8	1.00	"	50.0	ND	97.7	70-130			
2,2-Dichloropropane	62.0	1.00	"	50.0	ND	124	70-130			
2-Butanone	277	5.00	"	250	3.04	109	70-130			
2-Chlorotoluene	50.4	1.00	"	50.0	ND	101	70-130			
2-Hexanone	244	5.00	"	250	0.970	97.2	70-130			
4-Chlorotoluene	49.7	1.00	"	50.0	ND	99.5	70-130			
4-Isopropyltoluene	49.9	1.00	"	50.0	ND	99.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E3011 - EPA 5030B (Water)										
Matrix Spike (B9E3011-MS1)		Source: Y905431-08			Prepared: 05/30/2019 Analyzed: 05/31/2019					
4-Methyl-2-pentanone	245	5.00	ug/L	250	ND	98.0	70-130			
Acetone	288	8.00	"	250	11.4	110	70-130			
Benzene	56.4	1.00	"	50.0	ND	113	70-130			
Bromobenzene	48.6	1.00	"	50.0	ND	97.3	70-130			
Bromochloromethane	51.3	1.00	"	50.0	ND	103	70-130			
Bromodichloromethane	52.9	1.00	"	50.0	ND	106	70-130			
Bromoform	46.1	1.00	"	50.0	ND	92.2	70-130			
Bromomethane	66.0	1.00	"	50.0	ND	132	70-130			QM-07
Carbon disulfide	54.5	5.00	"	50.0	ND	109	70-130			
Carbon tetrachloride	56.0	1.00	"	50.0	ND	112	70-130			
Chlorobenzene	49.8	1.00	"	50.0	ND	99.5	70-130			
Chloroethane	63.8	1.00	"	50.0	ND	128	70-130			
Chloroform	56.4	1.00	"	50.0	ND	113	70-130			
Chloromethane	69.8	1.00	"	50.0	0.280	139	70-130			QM-07
cis-1,2-Dichloroethene	57.1	1.00	"	50.0	ND	114	70-130			
cis-1,3-Dichloropropene	47.8	1.00	"	50.0	ND	95.5	70-130			
Dibromochloromethane	48.2	1.00	"	50.0	ND	96.5	70-130			
Dibromomethane	53.1	1.00	"	50.0	ND	106	70-130			
Ethylbenzene	49.0	1.00	"	50.0	ND	97.9	70-130			
Hexachlorobutadiene	51.9	5.00	"	50.0	ND	104	70-130			
Iodomethane	56.0	10.0	"	50.0	ND	112	70-130			
Isopropylbenzene	48.7	1.00	"	50.0	ND	97.5	70-130			
m,p-Xylene	98.5	2.00	"	100	ND	98.5	70-130			
Methylene Chloride	59.0	5.00	"	50.0	ND	118	70-130			
Methyl tert-Butyl Ether	55.3	1.00	"	50.0	ND	111	70-130			
Naphthalene	48.9	4.00	"	50.0	0.380	97.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9E3011 - EPA 5030B (Water)

Matrix Spike (B9E3011-MS1)		Source: Y905431-08			Prepared: 05/30/2019 Analyzed: 05/31/2019					
n-Butylbenzene	50.1	1.00	ug/L	50.0	ND	100	70-130			
n-Propylbenzene	48.8	1.00	"	50.0	ND	97.7	70-130			
o-Xylene	49.5	1.00	"	50.0	ND	99.0	70-130			
sec-Butylbenzene	49.1	1.00	"	50.0	ND	98.3	70-130			
Styrene	46.5	1.00	"	50.0	ND	93.1	70-130			
tert-Butylbenzene	49.2	1.00	"	50.0	ND	98.5	70-130			
Tetrachloroethene	50.1	1.00	"	50.0	ND	100	70-130			
Toluene	50.5	1.00	"	50.0	ND	101	70-130			
trans-1,2-Dichloroethene	57.0	1.00	"	50.0	ND	114	70-130			
trans-1,3-Dichloropropene	49.9	1.00	"	50.0	ND	99.7	70-130			
Trichloroethene	56.2	1.00	"	50.0	ND	112	70-130			
Trichlorofluoromethane	51.1	1.00	"	50.0	ND	102	70-130			
Vinyl chloride	66.9	1.00	"	50.0	ND	134	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E3011 - EPA 5030B (Water)										
Matrix Spike Dup (B9E3011-MSD1)			Source: Y905431-08		Prepared: 05/30/2019 Analyzed: 05/31/2019					
1,1,1,2-Tetrachloroethane	49.1	1.00	ug/L	50.0	ND	98.2	70-130	1.93	20	
1,1,1-Trichloroethane	57.9	1.00	"	50.0	ND	116	70-130	1.02	20	
1,1,2,2-Tetrachloroethane	49.1	1.00	"	50.0	ND	98.2	70-130	1.52	20	
1,1,2-Trichloroethane	50.5	1.00	"	50.0	ND	101	70-130	1.32	20	
1,1-Dichloroethane	56.8	1.00	"	50.0	ND	114	70-130	0.795	20	
1,1-Dichloroethene	58.4	1.00	"	50.0	ND	117	70-130	1.65	20	
1,1-Dichloropropene	56.8	1.00	"	50.0	ND	114	70-130	0.635	20	
1,2,3-Trichlorobenzene	55.0	5.00	"	50.0	0.240	110	70-130	8.06	20	
1,2,3-Trichloropropane	50.5	5.00	"	50.0	ND	101	70-130	2.43	20	
1,2,4-Trichlorobenzene	54.3	5.00	"	50.0	0.140	108	70-130	4.12	20	
1,2,4-Trimethylbenzene	50.0	1.00	"	50.0	ND	99.9	70-130	0.642	20	
1,2-Dibromo-3-chloropropane	50.4	5.00	"	50.0	ND	101	70-130	4.42	20	
1,2-Dibromoethane (EDB)	47.8	1.00	"	50.0	ND	95.5	70-130	0.862	20	
1,2-Dichlorobenzene	50.1	1.00	"	50.0	ND	100	70-130	1.91	20	
1,2-Dichloroethane	58.4	1.00	"	50.0	ND	117	70-130	1.71	20	
1,2-Dichloropropane	55.9	1.00	"	50.0	ND	112	70-130	0.844	20	
1,3,5-Trimethylbenzene	49.8	1.00	"	50.0	ND	99.6	70-130	0.120	20	
1,3-Dichlorobenzene	50.0	1.00	"	50.0	ND	99.9	70-130	1.49	20	
1,3-Dichloropropane	49.9	1.00	"	50.0	ND	99.7	70-130	0.583	20	
1,4-Dichlorobenzene	49.2	1.00	"	50.0	ND	98.5	70-130	0.775	20	
2,2-Dichloropropane	62.9	1.00	"	50.0	ND	126	70-130	1.49	20	
2-Butanone	281	5.00	"	250	3.04	111	70-130	1.72	20	
2-Chlorotoluene	50.4	1.00	"	50.0	ND	101	70-130	0.119	20	
2-Hexanone	254	5.00	"	250	0.970	101	70-130	3.96	20	
4-Chlorotoluene	49.9	1.00	"	50.0	ND	99.8	70-130	0.381	20	
4-Isopropyltoluene	50.2	1.00	"	50.0	ND	100	70-130	0.620	20	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E3011 - EPA 5030B (Water)										
Matrix Spike Dup (B9E3011-MSD1)		Source: Y905431-08			Prepared: 05/30/2019 Analyzed: 05/31/2019					
4-Methyl-2-pentanone	254	5.00	ug/L	250	ND	101	70-130	3.44	20	
Acetone	293	8.00	"	250	11.4	113	70-130	1.77	20	
Benzene	56.2	1.00	"	50.0	ND	112	70-130	0.337	20	
Bromobenzene	49.1	1.00	"	50.0	ND	98.1	70-130	0.839	20	
Bromochloromethane	52.2	1.00	"	50.0	ND	104	70-130	1.72	20	
Bromodichloromethane	54.2	1.00	"	50.0	ND	108	70-130	2.39	20	
Bromoform	47.5	1.00	"	50.0	ND	95.0	70-130	3.01	20	
Bromomethane	66.5	1.00	"	50.0	ND	133	70-130	0.800	20	QM-07
Carbon disulfide	53.2	5.00	"	50.0	ND	106	70-130	2.49	20	
Carbon tetrachloride	56.7	1.00	"	50.0	ND	113	70-130	1.37	20	
Chlorobenzene	49.4	1.00	"	50.0	ND	98.8	70-130	0.686	20	
Chloroethane	64.3	1.00	"	50.0	ND	129	70-130	0.906	20	
Chloroform	57.1	1.00	"	50.0	ND	114	70-130	1.27	20	
Chloromethane	69.9	1.00	"	50.0	0.280	139	70-130	0.172	20	QM-07
cis-1,2-Dichloroethene	58.0	1.00	"	50.0	ND	116	70-130	1.44	20	
cis-1,3-Dichloropropene	48.2	1.00	"	50.0	ND	96.5	70-130	0.979	20	
Dibromochloromethane	49.2	1.00	"	50.0	ND	98.4	70-130	2.01	20	
Dibromomethane	53.6	1.00	"	50.0	ND	107	70-130	0.937	20	
Ethylbenzene	48.9	1.00	"	50.0	ND	97.8	70-130	0.102	20	
Hexachlorobutadiene	52.8	5.00	"	50.0	ND	106	70-130	1.74	20	
Iodomethane	56.2	10.0	"	50.0	ND	112	70-130	0.392	20	
Isopropylbenzene	49.1	1.00	"	50.0	ND	98.2	70-130	0.797	20	
m,p-Xylene	98.2	2.00	"	100	ND	98.2	70-130	0.295	20	
Methylene Chloride	57.9	5.00	"	50.0	ND	116	70-130	1.76	20	
Methyl tert-Butyl Ether	56.5	1.00	"	50.0	ND	113	70-130	2.13	20	
Naphthalene	53.5	4.00	"	50.0	0.380	106	70-130	8.93	20	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9E3011 - EPA 5030B (Water)										
Matrix Spike Dup (B9E3011-MSD1)	Source: Y905431-08				Prepared: 05/30/2019 Analyzed: 05/31/2019					
n-Butylbenzene	50.8	1.00	ug/L	50.0	ND	102	70-130	1.37	20	
n-Propylbenzene	49.1	1.00	"	50.0	ND	98.1	70-130	0.449	20	
o-Xylene	49.3	1.00	"	50.0	ND	98.6	70-130	0.405	20	
sec-Butylbenzene	49.3	1.00	"	50.0	ND	98.5	70-130	0.285	20	
Styrene	46.1	1.00	"	50.0	ND	92.2	70-130	0.907	20	
tert-Butylbenzene	49.8	1.00	"	50.0	ND	99.6	70-130	1.13	20	
Tetrachloroethene	50.1	1.00	"	50.0	ND	100	70-130	0.120	20	
Toluene	50.0	1.00	"	50.0	ND	99.9	70-130	1.08	20	
trans-1,2-Dichloroethene	57.0	1.00	"	50.0	ND	114	70-130	0.105	20	
trans-1,3-Dichloropropene	50.7	1.00	"	50.0	ND	101	70-130	1.67	20	
Trichloroethene	56.2	1.00	"	50.0	ND	112	70-130	0.0356	20	
Trichlorofluoromethane	50.7	1.00	"	50.0	ND	101	70-130	0.884	20	
Vinyl chloride	68.0	1.00	"	50.0	ND	136	70-130	1.59	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	70-130			

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President