

SITE ASSESSMENT REPORT

BAKER B02-05 FLOWLINE

COGCC SPILL TRACKING # 481822

COGCC REMEDIATION # 22104

Prepared for:



2115 117th Avenue
Greeley, CO 80631

Prepared by:



6855 W. 119th Ave
Broomfield, CO 80020

September 7, 2022

Mr. Dan Peterson
Environmental Specialist,
Chevron Rockies Business Unit
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80631

Re: Site Assessment Report
Baker B02-05 Flowline
Spill/Release Point ID: 481822
Remediation #: 22104
NWNW S2 T5N R64W
Weld County, Colorado

Dear Mr. Peterson:

Below please find a copy of the above referenced Site Assessment Report (Report) for the Baker B02-05 Flowline (Site) in Weld County, Colorado. The text below describes decommissioning, assessment, and associated soil sampling conducted by Tasman, Inc. (Tasman), on behalf of Noble Energy, Inc. (Noble) between March 22 and June 20, 2022.

Introduction

This document describes the results of soil sampling activities conducted at the Site to evaluate potential subsurface impacts. The activities described below were performed in response to the discovery of impacted material adjacent to a flowline hammer union connection during decommissioning activities at the Site on March 23, 2022.

Facility Background

The Site is located approximately 3.8 miles northeast of Kersey in Weld County, Colorado. The Site legal description is the northwest quarter of the northwest quarter of Section 2, Township 5 North, Range 64 West, 6th Principal Meridian. The Site is on terrain that slopes gradually to the east, at latitude 40.433711° and longitude -104.522169° [North American Datum of 1983(NAD83)] and is approximately 0.28 miles southeast of the intersection of County Road 57 and County Road 62 (Figure 1).

Tasman was retained by Noble on March 22, 2022, to complete soil sampling and documentation during Site decommissioning and abandonment activities along the flowline. As reported in the initial Form 19, historical impacts were discovered adjacent to a flowline hammer union connection on March 23, 2022. The Form 19 was submitted to the Colorado Oil and Gas Conservation Commission (COGCC) on March 23, 2022. The COGCC subsequently issued Spill/Release Point ID Number 481822 for this event. The COGCC assigned Remediation Number 22104 for the project.

Site Decommissioning Activities

Between March 22 and 28, 2022 Tasman completed decommissioning soil sampling and documentation for the Baker B02-05 Flowline. Twenty-five soil samples were collected along the flowline and field screened for volatile organic compounds (VOC) using a photoionization detector (PID) and standard headspace sampling techniques. Five soil samples, FL01-G@3', FL01-G@6', FL01-V@3', FL01-W@3', and FL01-Z@3' were submitted to Summit Scientific (Summit) in Golden, Colorado for laboratory analysis. The samples were submitted for laboratory analysis of the COGCC Table 915-1 list of organics in soil using United States Environmental Protection Agency (USEPA) Method 8260B and USEPA Method 8270D, and total petroleum hydrocarbons (TPH) using USEPA Methods 8260B and 8015D. The samples were also submitted for laboratory analysis of pH, electrical conductivity (EC), sodium absorption ratio (SAR) using USEPA saturated paste extraction method, and boron using the hot water-soluble soil extract method. Soil sample FL01-G@6', collected from the source, was also submitted to Summit for laboratory analysis of COGCC Table 915-1 metals in soil using USEPA Method 6020B. Groundwater was not encountered during decommissioning activities. Decommissioning soil analytical results are summarized in Table 1, illustrated on Figure 2, and the laboratory analytical report is included in Attachment A.

During decommissioning activities on March 23, 2022, Tasman identified the potential for a historic release adjacent to a flowline hammer union connection at the Site. Based on field screening approximately 15 cubic yards of impacted material were removed for off-Site disposal at the Waste Management Landfill in Ault, Colorado, under signed Noble waste manifests. The decommissioning excavation extent measured approximately 8 ft. by 5 ft. by 6 ft. bgs and a total of approximately 15 cubic yards of imported clean fill was used to backfill the excavation.

Site Assessment Activities

Between June 13 and 20, 2022, Tasman completed site assessment activities to delineate potential subsurface soil and groundwater impacts identified during decommissioning activities along the flowline. Tasman advanced a total of six boreholes to 15 feet below ground surface (ft bgs), using a hand auger and an AMS Power Probe via direct push, in the area of flowline decommissioning sample FL01-G@6'. Additionally, five background soil samples, BG01@6' through BG05@6', were collected from an adjacent vegetated area southwest of flowline decommissioning sample FL01-G@6', using a hand auger. During soil boring operations, soil samples were collected, and field screened for VOCs using a PID and standard headspace sampling techniques. The following soil samples were collected at depths corresponding to initial observed impacts, and the terminal depth of the borings:

BH01@6-7'	BH02@3-4'	BH03@3-4'	BH04@3-4'	BH05@3-4'	BH06@3-4'
BH01@13-15'	BH02@6-7'	BH03@6-7'	BH04@6-7'	BH05@6-7'	BH06@6-7'
	BH02@13-15'	BH03@13-15'	BH04@13-15'	BH05@13-15'	BH06@13-15'

All soil boring samples, shown above, were submitted to Summit for laboratory analysis of the COGCC Table 915-1 list of organics in soil using USEPA Methods 8260B and 8270D, TPH using USEPA Methods 8260B and 8015D. Additionally, the soil boring samples were submitted to Summit for analysis of COGCC Table 915-1 metals in soil using USEPA Method 6020B as well as analysis of pH, EC, SAR using USEPA saturated paste extraction method, and boron using the hot water-soluble soil extract method. The five background samples were submitted to Summit for laboratory

analysis of arsenic, barium, lead, and selenium using USEPA Method 6020B as well as pH using USEPA saturated paste extraction method. Site assessment soil sample analytical results are summarized in Table 1 and illustrated on Figure 3. Laboratory analytical reports are included in Attachment A and the boring logs are included in Attachment B.

Groundwater was not encountered during site assessment soil boring activities; however, a saturated layer was encountered at approximately 5-6 ft bgs in soil borings BH01 and BH02. Soil boring BH01 was converted to a temporary groundwater monitoring well set at approximately 10 ft bgs. At the conclusion of the site assessment all remaining boreholes (BH02 through BH06) were backfilled with bentonite. Seven days post monitoring well installation, on June 20, 2022, monitoring well BH01 was gauged dry, and no groundwater samples were collected.

Results

Laboratory analytical results for soil samples collected during initial flowline decommissioning and subsequent site assessment activities indicate all samples are compliant with COGCC Table 915-1 Protection of Groundwater Soil Screening Levels (GW SSL) for hydrocarbon compounds except for flowline decommissioning samples FL01-G@3' and FL01-G@6', as well as site assessment soil sample BH01@6-7'. Laboratory analytical results indicate that a combination of benzene, ethylbenzene, total xylenes, 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB), naphthalene, TPH, benz(a)anthracene (Benz(a)), 1-methylnaphthalene (1-M), and 2-methylnaphthalene (2-M) were detected at concentrations greater than their respective COGCC Table 915-1 GW SSL standards. Laboratory analytical results indicate all soil samples collected during flowline decommissioning and the site assessment are compliant with COGCC Table 915-1 Soil Suitability for Reclamation (SSR) standards, except for pH in site assessment samples BH03@3-4', BH04@3-4', and BH05@3-4' as well as SAR in flowline decommissioning sample FL01-W@3'. Laboratory analytical results for flowline decommissioning waste characterization soil sample FL01-G@6' and all 17 soil samples collected during the site assessment indicate metal impacts above applicable COGCC Table 915-1 GW SSL standards and consisted of a combination of arsenic, barium, lead, and selenium. Background soil sample results for arsenic, barium and selenium indicate elevated levels are present in adjacent native soil and that they are comparable to or higher than those observed in the source area. Although background lead concentrations were all below COGCC Table 915-1 GW SSL standards, elevated background concentrations were detected at an average of 7.87 milligrams per kilogram (mg/kg), with a maximum background detection of 9.20 mg/kg. Soil sample analytical results from flowline decommissioning and the site assessment are summarized in Table 1.

Conclusions

Soil hydrocarbon impacts first identified during flowline decommissioning have been delineated vertically and horizontally by the site assessment soil boring samples. Soil hydrocarbon impacts were identified in site assessment sample BH01@6-7', however analytical results for the five other borings bounding flowline decommissioning sample location FL01-G were all below laboratory reporting limits. Soil hydrocarbon impacts indicated in site assessment sample BH01@6-7' above COGCC Table 915-1 GW SSL standards included 1,2,4-TMB, 1,3,5-TMB, naphthalene, 1-M, and 2-M (Figure 3). Laboratory results from the background soil samples collected during the site assessment indicate that adjacent native soils contain elevated metal concentrations comparable to or higher than those observed in the source area, except for lead. Groundwater was not encountered in the six site

assessment soil borings advanced to 15 ft bgs during the seasonal high groundwater period. Efforts to collect a groundwater sample from monitoring well BH01, advanced in the source area, were unsuccessful due to the monitoring well gauging dry post-installation. Soil hydrocarbon impacts identified during flowline decommissioning at sample location FL01-G, and in site assessment sample BH01@6-7' will be addressed through source removal excavation for off-site disposal, during which confirmation soil samples will be collected.

Tasman proposes that the pH exceedances above applicable COGCC Table 915-1 SSR standards indicated in site assessment soil samples BH03@3-4', BH04@3-4', and BH05@3-4', advanced in the area of flowline decommissioning sample location FL01-G, be addressed through a Site-specific Reclamation plan prepared pursuant to COGCC Rule 915.b. Additional delineation of the SAR exceedance identified in flowline decommissioning sample FL01-W@3' will be completed and addressed through a detailed Site-specific Reclamation plan prepared pursuant to COGCC Rule 915.b.

Remarks

The discussion and conclusions contained in this report represent the professional opinions of Tasman, Inc. These opinions are based on currently available information and are arrived at in accordance with currently accepted geologic and engineering practices.

Please contact me at (720) 616-8383 or at jwhritenour@tasman-geo.com if you require additional information.

Sincerely,
Tasman, Inc.



Jake Whritenour, Program Manager

Attachments:

Table 1 – Soil Analytical Data

Figure 1 – Site Location Map

Figure 2 – Decommissioning & Soil Analytical Results Map (03/22/2022 – 03/28/2022)

Figure 3 – Site Assessment Soil Analytical Results Map (06/13/2022 & 06/14/2022)

Attachment A – Laboratory Soil Analytical Data Reports

Attachment B – Boring Logs

TABLES

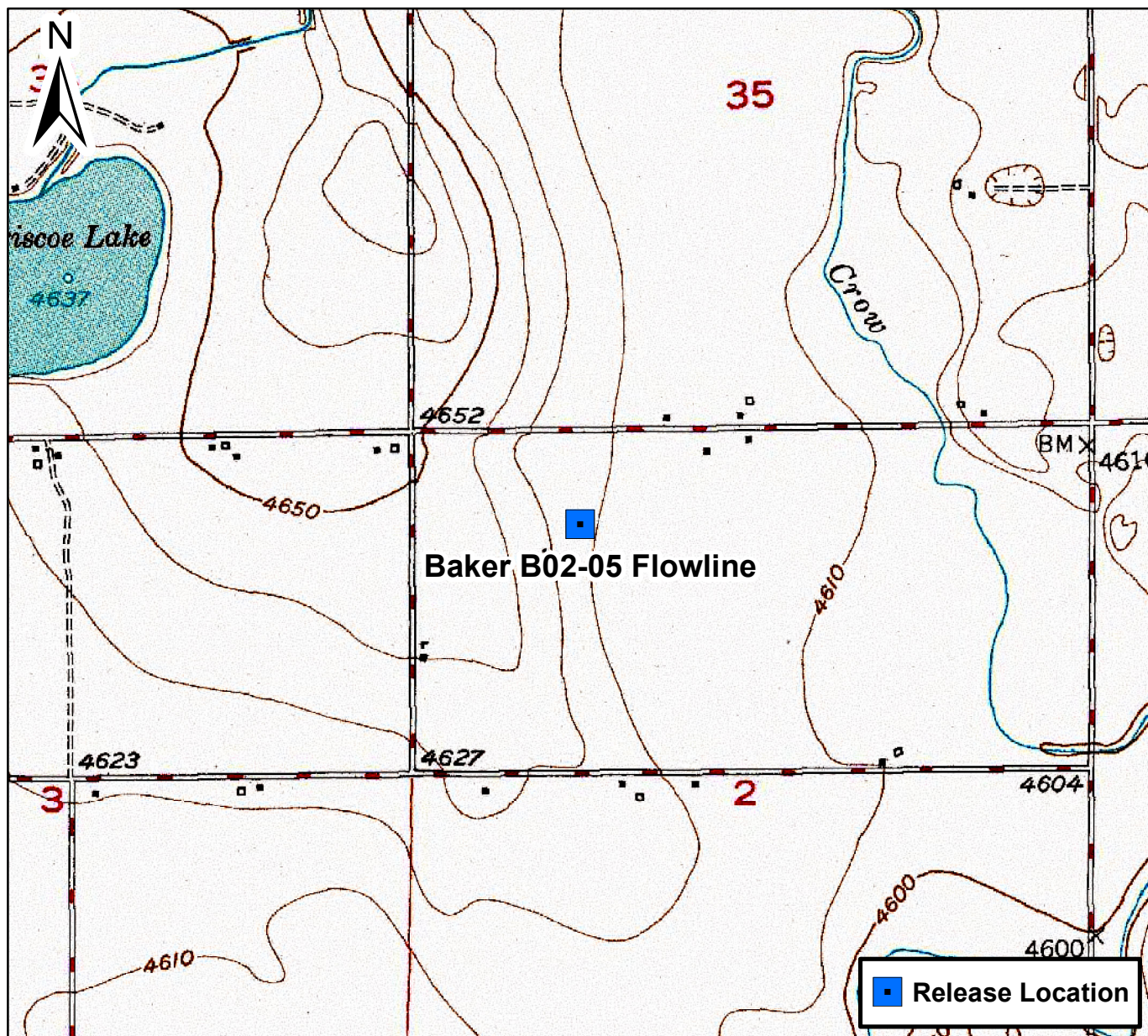
TABLE 1
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BAKER B02-05 FLOWLINE

Soil Sample ID	Date	¹ Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4 - TMB (mg/kg)	1,3,5 - TMB (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a) (mg/kg)	Benzo(a) (mg/kg)	Benzo(b) (mg/kg)	Benzo(k) (mg/kg)	Chrysene (mg/kg)	A,H (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	Pyrene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)
Residential SSL ²		1.2	490	5.8	58	30	27	2	500			360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Protection of Groundwater SSL ^{2,3}		0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500			0.55	6	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01-G@3'	03/23/22	0.0069	<0.0050	<0.50	48	62	40	3.2	6,500	4,300	200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.128	<0.00500	0.00821	<0.00500	<0.00500	<0.00500	3.04	5.10
FL01-G@6'	03/23/22	0.019	<0.0050	15	140	79	45	5.3	8,600	5,600	240	<0.00500	<0.00500	0.0965	<0.00500	<0.00500	<0.00500	0.0859	<0.00500	0.0214	<0.00500	<0.00500	0.0849	2.53	5.62
FL01-V@3'	03/25/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-W@3'	03/28/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-Z@3'	03/28/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH01@6-7'	06/14/22	<0.0020	<0.0050	<0.0050	0.31	0.30	0.14	0.0092	6.1	200	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0162	<0.00500	<0.00500	0.145	0.143
BH01@13-15'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH02@3-4'	06/13/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH02@6-7'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH02@13-15'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH03@3-4'	06/13/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH03@6-7'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH03@13-15'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH04@3-4'	06/13/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH04@6-7'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH04@13-15'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH05@3-4'	06/13/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH05@6-7'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH05@13-15'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH06@3-4'	06/13/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH06@6-7'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BH06@13-15'	06/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Soil Sample ID	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
Residential SSL ²		6 - 8.3	<6	<4mmhos/cm	2
FL01-G@3'	03/23/22	7.48	0.590	1.19	0.130
FL01-G@6'	03/23/22	7.69	0.480	1.08	0.0485
FL01-V@3'	03/25/22	8.02	1.99	2.22	0.245
FL01-W@3'	03/28/22	7.87	14.1	1.49	0.239
FL01-Z@3'	03/28/22	7.89	2.36	3.78	0.0886
BG01@6'	06/14/22	7.69	NA	NA	NA
BG02@6'	06/14/22	7.83	NA	NA	NA
BG03@6'	06/14/22	8.00	NA	NA	NA
BG04@6'	06/14/22	7.93	NA	NA	NA
BG05@6'	06/14/22	8.09	NA	NA	NA
BH01@6-7'	06/14/22	7.51	0.559	0.555	0.0759
BH01@13-15'	06/14/22	7.60	0.592	0.376	0.138
BH02@3-4'	06/13/22	8.22	0.188	0.486	0.0605
BH02@6-7'	06/14/22	7.85	0.470	0.518	0.0638
BH02@13-15'	06/14/22	7.73	0.975	0.349	0.0691
BH03@3-4'	06/13/22	8.39	0.115	0.390	0.0518
BH03@6-7'	06/14/22	8.04	0.374	0.418	0.0491
BH03@13-15'	06/14/22	7.83	0.570	0.373	0.0786
BH04@3-4'	06/13/22	8.37	0.163	0.433	0.0587
BH04@6-7'	06/14/22	7.84	0.511	0.496	0.0616
BH04@13-15'	06/14/22	7.76	0.574	0.407	0.123
BH05@3-4'	06/13/22	8.31	0.236	0.493	0.0968
BH05@6-7'	06/14/22	7.86	0.562	0.434	0.0717
BH05@13-15'	06/14/22	8.00	1.91	0.366	0.0727
BH06@3-4'	06/13/22	8.21	0.979	1.16	0.0884
BH06@6-7'	06/14/22	8.01	0.838	1.77	0.232
BH06@13-15'	06/14/22	7.80	1.73	1.14	0.177

Soil Sample ID	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Residential SSL ²		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Protection of Groundwater SSL ^{2,3}		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01-G@6'	03/23/22	8.29	32.0	<0.238	<0.30	10.5	14.6	23.7	0.770	<0.0238	60.7
BG01@6'	06/14/22	9.52	24.3	NA	NA	NA	9.20	NA	0.978	NA	NA
BG02@6'	06/14/22	4.76	73.8	NA	NA	NA	6.95	NA	0.817	NA	NA
BG03@6'	06/14/22	6.94	61.2	NA	NA	NA	8.82	NA	0.790	NA	NA
BG04@6'	06/14/22	4.23	69.3	NA	NA	NA	6.28	NA	0.685	NA	NA
BG05@6'	06/14/22	5.44	146	NA	NA	NA	8.11	NA	0.788	NA	NA
BH01@6-7'	06/14/22	3.18	15.8	<0.241	<0.30	6.45	9.49	8.46	0.760	<0.0241	41.1
BH01@13-15'	06/14/22	14.9	27.0	<0.234	<0.30	12.4	12.7	15.1	1.25	0.0261	72.4
BH02@3-4'	06/13/22	6.43	114	<0.245	<0.30	9.95	7.02	11.2	0.827	0.0453	32.7
BH02@6-7'	06/14/22	12.7	24.3	<0.245	<0.30	6.95	11.1	12.8	0.865	<0.0245	47.8
BH02@13-15'	06/14/22	5.16	16.0	<0.233	<0.30	6.60	6.74	8.17	0.807	<0.0233	38.3
BH03@3-4'	06/13/22	7.46	141	<0.248	<0.30	9.48	7.31	11.3	0.851	<0.0248	32.1
BH03@6-7'	06/14/22	8.26	17.4	<0.244	<0.30	8.59	7.11	14.1	0.937	<0.0244	57.8
BH03@13-15'	06/14/22	5.58	19.5	<0.237	<0.30	5.90	6.59	8.02	0.781	<0.0237	40.7
BH04@3-4'	06/13/22	5.33	120	<0.244	<0.30	8.73	7.26	10.9	0.733	0.0386	34.5
BH04@6-7'	06/14/22	3.93	34.4	<0.245	<0.30	5.80	8.28	12.2	0.786	<0.0245	40.7
BH04@13-15'	06/14/22	7.88	15.1	<0.236	<0.30	6.96	7.79	9.07	0.845	<0.0236	43.1
BH05@3-4'	06/13/22	6.27	147	<0.249	<0.30	10.2	7.27	11.6	0.900	0.0419	33.1
BH05@6-7'	06/14/22	3.33	29.8	<0.242	<0.30	5.61	6.04	8.51	0.782	<0.0242	31.7
BH05@13-15'	06/14/22	2.68	10.7	<0.239	<0.30	3.20	3.77	5.26	0.564	<0.0239	24.7
BH06@3-4'	06/13/22	6.47	96.4	<0.223	<0.30	10.8	7.69	11.8	0.930	0.0518	35.2
BH06@6-7'	06/14/22	6.69	19.1	<0.238	<0.30	8.49	10.2	13.3	0.949	<0.0238	53.5
BH06@13-15'	06/14/22	8.67	14.4	<0.234	<0.30	10.4	11.5	9.55	0.954	0.0254	52.1

FIGURES

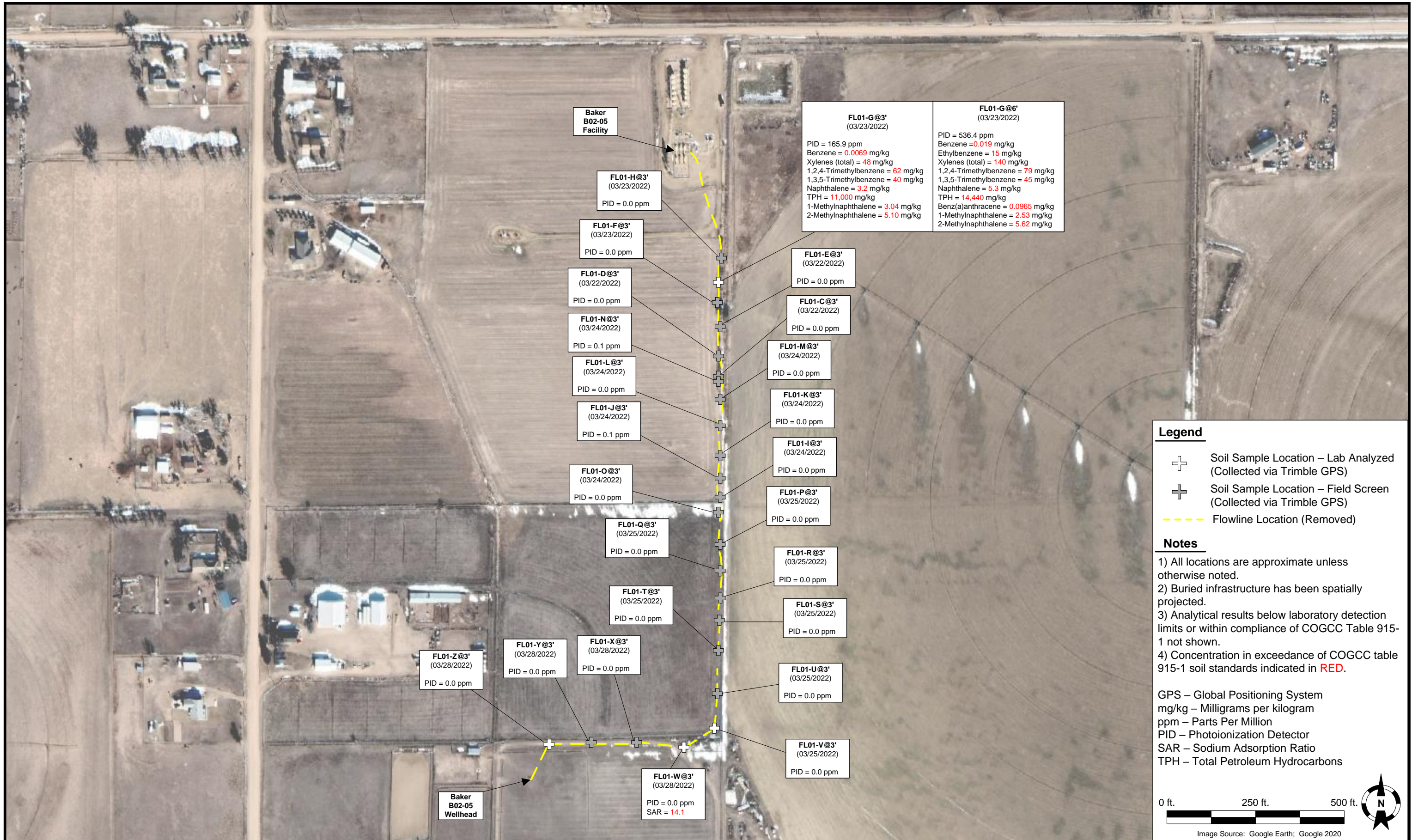


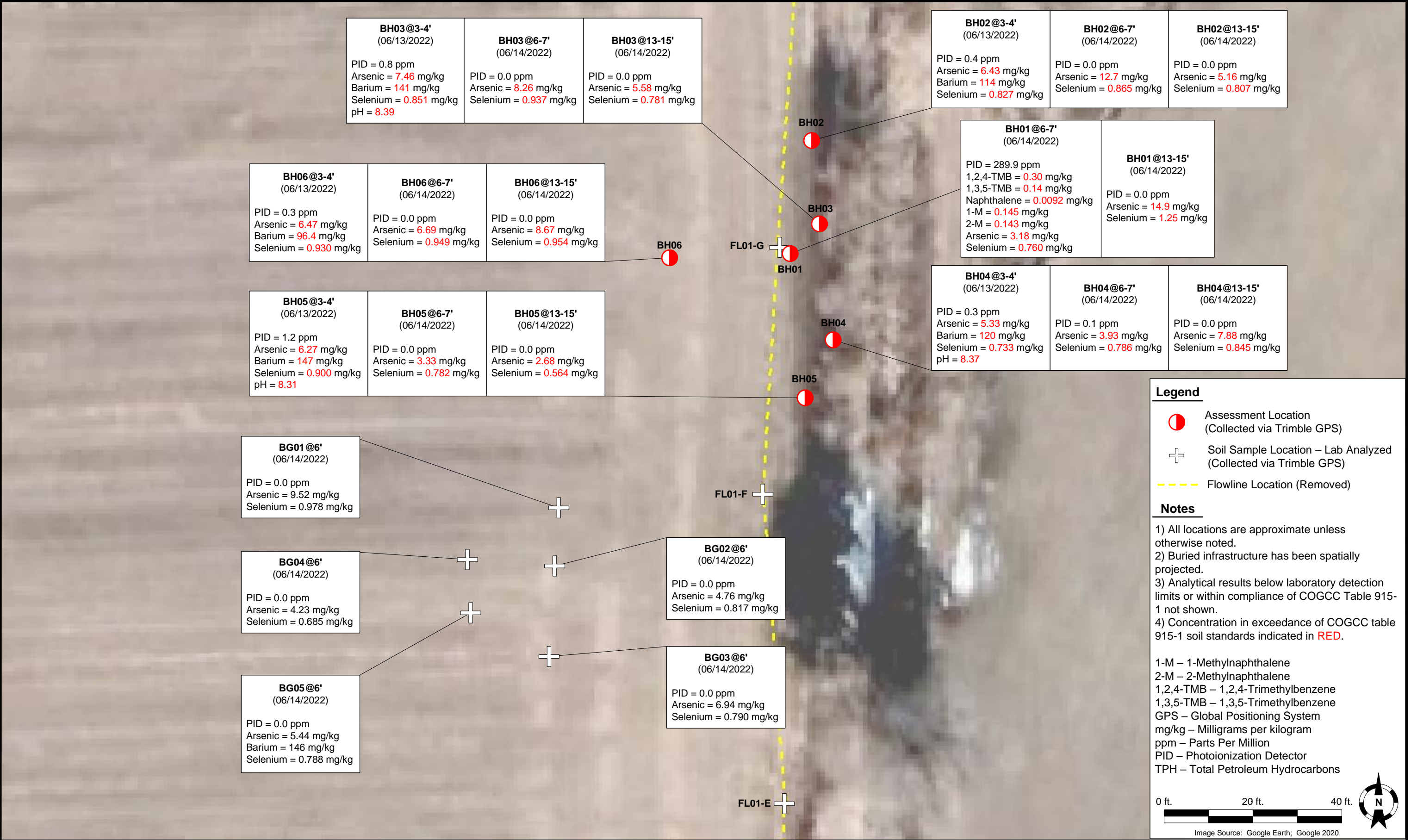
0 1,500 3,000 Feet

Figure 1

Site Location Map
Baker B02-05 Flowline
NWNW S2 T5N R64W
Weld County, Colorado







ATTACHMENT A
LABORATORY SOIL ANALYTICAL DATA REPORTS

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 16, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Baker B02-05

Work Order #2203380

Enclosed are the results of analyses for samples received by Summit Scientific on 03/23/22 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-G@3'	2203380-01	Soil	03/23/22 11:25	03/23/22 15:40
FL01-G@6'	2203380-02	Soil	03/23/22 11:40	03/23/22 15:40

Summit Scientific

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.

S_2

303-277-9310

Page 1 of 1

Project Number:

www.s2scientific.com



2203380

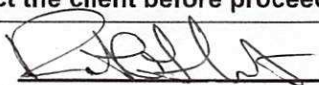
Sample Receipt Checklist

S2 Work Order# _____

Client: Noble-Tasman Client Project ID: Baker B02-05Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)Temp (°C) 6.9

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<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 in case narrative.
Custodian Printed Name or Initials3.23.22
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

FL01-G@3'
2203380-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.0069	0.0020	mg/kg	1	BFC0563	03/24/22	03/26/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	100	"	"	"	"	
Xylenes (total)	48	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	62	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	40	0.50	"	"	"	"	"	"	
Naphthalene	3.2	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6500	500	"	1000	"	"	"	"	

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0495	124 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0337	84.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0530	132 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	4300	50	mg/kg	1	BFC0564	03/24/22	03/26/22	EPA 8015M	
C28-C36 (ORO)	200	50	"	"	"	"	"	"	

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	12.9	103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

FL01-G@3'
2203380-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0541	03/24/22	03/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.128	0.0500	"	10	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	1	"	"	"	"	
Fluoranthene	0.00821	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	3.04	0.500	"	100	"	"	"	"	
2-Methylnaphthalene	5.10	0.500	"	"	"	"	"	"	

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00752	22.6 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0270	81.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.130	0.0100	mg/L	1	BFC0662	03/29/22	04/07/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

FL01-G@3'
2203380-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	134	0.0597	mg/L dry	1	BFC0642	03/28/22	04/07/22	EPA 6020B
Magnesium	53.3	0.0597	"	"	"	"	"	"
Sodium	31.9	0.0597	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.590	0.00100	units	1	BFD0153	04/08/22	04/08/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BFC0628	03/28/22	03/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.19	0.0100	mmhos/cm	1	BFC0677	03/29/22	03/29/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/23/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BFC0678	03/29/22	03/29/22	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

FL01-G@6'
2203380-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.019	0.0020	mg/kg	1	BFC0563	03/24/22	03/26/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	15	0.50	"	100	"	"	"	"	
Xylenes (total)	140	10	"	1000	"	"	"	"	
1,2,4-Trimethylbenzene	79	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	45	0.50	"	100	"	"	"	"	
Naphthalene	5.3	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8600	500	"	1000	"	"	"	"	

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0543	136 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0341	85.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0553	138 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	5600	50	mg/kg	1	BFC0564	03/24/22	03/26/22	EPA 8015M	
C28-C36 (ORO)	240	50	"	"	"	"	"	"	

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.1	129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

FL01-G@6'
2203380-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0541	03/24/22	03/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0965	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0859	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0214	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0849	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	2.53	0.500	"	100	"	"	"	"	
2-Methylnaphthalene	5.62	0.500	"	"	"	"	"	"	

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	45.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0256	76.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0485	0.0100	mg/L	1	BFC0662	03/29/22	04/07/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

FL01-G@6'
2203380-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.29	0.238	mg/kg dry	1	BFE0040	05/03/22	05/14/22	EPA 6020B
Barium	32.0	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	10.5	0.476	"	"	"	"	"	"
Lead	14.6	0.238	"	"	"	"	"	"
Nickel	23.7	0.476	"	"	"	"	"	"
Selenium	0.770	0.309	"	"	"	"	"	"
Silver	ND	0.0238	"	"	"	"	"	"
Zinc	60.7	0.476	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0013	05/02/22	05/02/22	EPA 7196A	I-02

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	119	0.0595	mg/L dry	1	BFC0642	03/28/22	04/07/22	EPA 6020B	
Magnesium	47.8	0.0595	"	"	"	"	"	"	
Sodium	24.5	0.0595	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.480	0.00100	units	1	BFD0153	04/08/22	04/08/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

FL01-G@6'
2203380-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BFC0628	03/28/22	03/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.08	0.0100	mmhos/cm	1	BFC0677	03/29/22	03/29/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/23/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BFC0678	03/29/22	03/29/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0563 - EPA 5030 Soil MS

Blank (BFC0563-BLK1)

Prepared & Analyzed: 03/24/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	50-150			

LCS (BFC0563-BS1)

Prepared & Analyzed: 03/24/22

Benzene	0.145	0.0020	mg/kg	0.125		116	70-130			
Toluene	0.125	0.0050	"	0.125		99.7	70-130			
Ethylbenzene	0.121	0.0050	"	0.125		97.0	70-130			
m,p-Xylene	0.248	0.010	"	0.250		99.3	70-130			
o-Xylene	0.125	0.0050	"	0.125		100	70-130			
1,2,4-Trimethylbenzene	0.132	0.0050	"	0.125		106	70-130			
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.125		111	70-130			
Naphthalene	0.107	0.0038	"	0.125		85.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0303		"	0.0400		75.7	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

Matrix Spike (BFC0563-MS1)

Source: 2203354-01

Prepared & Analyzed: 03/24/22

Benzene	0.117	0.0020	mg/kg	0.125	ND	93.6	70-130			
Toluene	0.129	0.0050	"	0.125	ND	103	70-130			
Ethylbenzene	0.123	0.0050	"	0.125	ND	98.4	70-130			
m,p-Xylene	0.252	0.010	"	0.250	ND	101	70-130			
o-Xylene	0.126	0.0050	"	0.125	ND	101	70-130			
1,2,4-Trimethylbenzene	0.135	0.0050	"	0.125	ND	108	70-130			
1,3,5-Trimethylbenzene	0.142	0.0050	"	0.125	ND	113	70-130			
Naphthalene	0.115	0.0038	"	0.125	ND	92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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6855 W. 119th Ave.
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Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0563 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0563-MSD1)	Source: 2203354-01			Prepared & Analyzed: 03/24/22						
Benzene	0.134	0.0020	mg/kg	0.125	ND	107	70-130	13.3	30	
Toluene	0.131	0.0050	"	0.125	ND	105	70-130	1.69	30	
Ethylbenzene	0.129	0.0050	"	0.125	ND	103	70-130	4.65	30	
m,p-Xylene	0.258	0.010	"	0.250	ND	103	70-130	2.42	30	
o-Xylene	0.128	0.0050	"	0.125	ND	102	70-130	1.42	30	
1,2,4-Trimethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130	3.66	30	
1,3,5-Trimethylbenzene	0.143	0.0050	"	0.125	ND	115	70-130	1.03	30	
Naphthalene	0.116	0.0038	"	0.125	ND	92.5	70-130	0.182	30	
Surrogate: 1,2-Dichloroethane-d4	0.0554		"	0.0400		139	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	50-150			

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Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFC0564 - EPA 3550A

Blank (BFC0564-BLK1)

Prepared: 03/24/22 Analyzed: 03/25/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFC0564-BS1)

Prepared: 03/24/22 Analyzed: 03/25/22

C10-C28 (DRO)	481	50	mg/kg	500	96.2	70-130
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Matrix Spike (BFC0564-MS1)

Source: 2203354-01

Prepared: 03/24/22 Analyzed: 03/25/22

C10-C28 (DRO)	405	50	mg/kg	500	33.3	74.4	70-130
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Matrix Spike Dup (BFC0564-MSD1)

Source: 2203354-01

Prepared: 03/24/22 Analyzed: 03/25/22

C10-C28 (DRO)	440	50	mg/kg	500	33.3	81.2	70-130	8.15	20
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Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0541 - EPA 5030 Soil MS

Blank (BFC0541-BLK1)

Prepared & Analyzed: 03/24/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0180		"	0.0333		54.0		40-150			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.8		40-150			

LCS (BFC0541-BS1)

Prepared & Analyzed: 03/24/22

Acenaphthene	0.0222	0.00500	mg/kg	0.0333		66.5		31-137			
Anthracene	0.0239	0.00500	"	0.0333		71.7		30-120			
Benzo (a) anthracene	0.0249	0.00500	"	0.0333		74.7		30-120			
Benzo (a) pyrene	0.0253	0.00500	"	0.0333		75.8		30-120			
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333		79.8		30-120			
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333		78.1		30-120			
Chrysene	0.0238	0.00500	"	0.0333		71.5		30-120			
Dibenz (a,h) anthracene	0.0239	0.00500	"	0.0333		71.8		30-120			
Fluoranthene	0.0237	0.00500	"	0.0333		71.0		30-120			
Fluorene	0.0220	0.00500	"	0.0333		66.1		30-120			
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333		71.5		30-120			
Pyrene	0.0240	0.00500	"	0.0333		72.0		35-142			
1-Methylnaphthalene	0.0201	0.00500	"	0.0333		60.2		35-142			
2-Methylnaphthalene	0.0201	0.00500	"	0.0333		60.4		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0207		"	0.0333		62.0		40-150			
Surrogate: Fluoranthene-d10	0.0237		"	0.0333		71.0		40-150			

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Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0541 - EPA 5030 Soil MS

Matrix Spike (BFC0541-MS1)

Source: 2203350-05

Prepared & Analyzed: 03/24/22

Acenaphthene	0.0247	0.00500	mg/kg	0.0333	ND	74.1	31-137				
Anthracene	0.0250	0.00500	"	0.0333	ND	75.0	30-120				
Benzo (a) anthracene	0.0265	0.00500	"	0.0333	ND	79.4	30-120				
Benzo (a) pyrene	0.0262	0.00500	"	0.0333	ND	78.5	30-120				
Benzo (b) fluoranthene	0.0284	0.00500	"	0.0333	ND	85.1	30-120				
Benzo (k) fluoranthene	0.0262	0.00500	"	0.0333	ND	78.7	30-120				
Chrysene	0.0261	0.00500	"	0.0333	0.00311	69.1	30-120				
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120				
Fluoranthene	0.0260	0.00500	"	0.0333	ND	78.1	30-120				
Fluorene	0.0309	0.00500	"	0.0333	0.0111	59.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333	ND	71.5	30-120				
Pyrene	0.0261	0.00500	"	0.0333	ND	78.2	35-142				
1-Methylnaphthalene	0.0565	0.00500	"	0.0333	0.0286	83.6	15-130				
2-Methylnaphthalene	0.0969	0.00500	"	0.0333	0.0600	110	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0231		"	0.0333		69.3	40-150				
Surrogate: Fluoranthene-d10	0.0263		"	0.0333		78.8	40-150				

Matrix Spike Dup (BFC0541-MSD1)

Source: 2203350-05

Prepared & Analyzed: 03/24/22

Acenaphthene	0.0254	0.00500	mg/kg	0.0333	ND	76.1	31-137	2.60	30		
Anthracene	0.0277	0.00500	"	0.0333	ND	83.1	30-120	10.3	30		
Benzo (a) anthracene	0.0273	0.00500	"	0.0333	ND	82.0	30-120	3.28	30		
Benzo (a) pyrene	0.0270	0.00500	"	0.0333	ND	80.9	30-120	2.94	30		
Benzo (b) fluoranthene	0.0291	0.00500	"	0.0333	ND	87.3	30-120	2.50	30		
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333	ND	80.6	30-120	2.39	30		
Chrysene	0.0275	0.00500	"	0.0333	0.00311	73.2	30-120	5.12	30		
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	4.35	30		
Fluoranthene	0.0284	0.00500	"	0.0333	ND	85.2	30-120	8.67	30		
Fluorene	0.0341	0.00500	"	0.0333	0.0111	69.0	30-120	9.86	30		
Indeno (1,2,3-cd) pyrene	0.0230	0.00500	"	0.0333	ND	69.0	30-120	3.58	30		
Pyrene	0.0263	0.00500	"	0.0333	ND	79.0	35-142	1.04	30		
1-Methylnaphthalene	0.0580	0.00500	"	0.0333	0.0286	88.2	15-130	2.70	50		
2-Methylnaphthalene	0.0967	0.00500	"	0.0333	0.0600	110	15-130	0.150	50		
Surrogate: 2-Methylnaphthalene-d10	0.0202		"	0.0333		60.5	40-150				
Surrogate: Fluoranthene-d10	0.0287		"	0.0333		86.0	40-150				

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFC0662 - EPA 3050B

Blank (BFC0662-BLK1)

Prepared: 03/29/22 Analyzed: 04/07/22

Boron ND 0.0100 mg/L

LCS (BFC0662-BS1)

Prepared: 03/29/22 Analyzed: 04/07/22

Boron 5.15 0.0100 mg/L 5.00 103 80-120

Duplicate (BFC0662-DUP1)

Source: 2203354-01

Prepared: 03/29/22 Analyzed: 04/07/22

Boron 0.0448 0.0100 mg/L 0.0467 4.32 20

Matrix Spike (BFC0662-MS1)

Source: 2203354-01

Prepared: 03/29/22 Analyzed: 04/07/22

Boron 5.01 0.0100 mg/L 5.00 0.0467 99.3 75-125

Matrix Spike Dup (BFC0662-MSD1)

Source: 2203354-01

Prepared: 03/29/22 Analyzed: 04/07/22

Boron 4.89 0.0100 mg/L 5.00 0.0467 97.0 75-125 2.40 25

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6855 W. 119th Ave.
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Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFE0040 - EPA 3050B

Blank (BFE0040-BLK1)

Prepared: 05/03/22 Analyzed: 05/14/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFE0040-BS1)

Prepared: 05/03/22 Analyzed: 05/14/22

Arsenic	35.0	0.200	mg/kg wet	40.0	87.5	80-120
Barium	32.7	0.400	"	40.0	81.8	80-120
Cadmium	1.71	0.200	"	2.00	85.6	80-120
Copper	35.4	0.400	"	40.0	88.5	80-120
Lead	17.3	0.200	"	20.0	86.3	80-120
Nickel	35.0	0.400	"	40.0	87.4	80-120
Selenium	3.26	0.260	"	4.00	81.5	80-120
Silver	1.67	0.0200	"	2.00	83.5	80-120
Zinc	35.3	0.400	"	40.0	88.4	80-120

Duplicate (BFE0040-DUP1)

Source: 2203380-02

Prepared: 05/03/22 Analyzed: 05/14/22

Arsenic	8.64	0.238	mg/kg dry	8.29	4.18	20
Barium	31.1	0.476	"	32.0	2.97	20
Cadmium	0.0656	0.238	"	0.209	104	20
Copper	10.4	0.476	"	10.5	1.16	20
Lead	14.8	0.238	"	14.6	1.28	20
Nickel	20.3	0.476	"	23.7	15.6	20
Selenium	0.851	0.309	"	0.770	10.0	20
Silver	0.0193	0.0238	"	0.0160	18.7	20
Zinc	66.2	0.476	"	60.7	8.70	20

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFE0040 - EPA 3050B

Matrix Spike (BFE0040-MS1)		Source: 2203380-02			Prepared: 05/03/22 Analyzed: 05/14/22					
Arsenic	46.5	0.238	mg/kg dry	47.6	8.29	80.3	75-125			
Barium	68.3	0.476	"	47.6	32.0	76.3	75-125			
Cadmium	2.43	0.238	"	2.38	0.209	93.1	75-125			
Copper	49.8	0.476	"	47.6	10.5	82.4	75-125			
Lead	26.9	0.238	"	23.8	14.6	51.8	75-125			QM-05
Nickel	49.2	0.476	"	47.6	23.7	53.4	75-125			QM-05
Selenium	4.69	0.309	"	4.76	0.770	82.4	75-125			
Silver	1.82	0.0238	"	2.38	0.0160	75.8	75-125			
Zinc	101	0.476	"	47.6	60.7	84.3	75-125			

Matrix Spike Dup (BFE0040-MSD1)		Source: 2203380-02			Prepared: 05/03/22 Analyzed: 05/14/22					
Arsenic	48.7	0.238	mg/kg dry	47.6	8.29	84.9	75-125	4.61	25	
Barium	71.8	0.476	"	47.6	32.0	83.6	75-125	5.00	25	
Cadmium	2.41	0.238	"	2.38	0.209	92.7	75-125	0.473	25	
Copper	47.8	0.476	"	47.6	10.5	78.2	75-125	4.08	25	
Lead	31.0	0.238	"	23.8	14.6	69.0	75-125	14.2	25	QM-05
Nickel	52.5	0.476	"	47.6	23.7	60.5	75-125	6.63	25	QM-05
Selenium	4.65	0.309	"	4.76	0.770	81.4	75-125	1.04	25	
Silver	2.26	0.0238	"	2.38	0.0160	94.1	75-125	21.4	25	
Zinc	108	0.476	"	47.6	60.7	100	75-125	7.19	25	

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6855 W. 119th Ave.
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Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFE0013 - 3060A Mod

Blank (BFE0013-BLK1)

Prepared & Analyzed: 05/02/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFE0013-BS1)

Prepared & Analyzed: 05/02/22

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BFE0013-DUP1)

Source: 2203380-02

Prepared & Analyzed: 05/02/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFE0013-MS1)

Source: 2203380-02

Prepared & Analyzed: 05/02/22

Chromium, Hexavalent 32.8 0.30 mg/kg dry 29.8 ND 110 75-125

Matrix Spike Dup (BFE0013-MSD1)

Source: 2203380-02

Prepared & Analyzed: 05/02/22

Chromium, Hexavalent 34.8 0.30 mg/kg dry 29.8 ND 117 75-125 5.63 20

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFC0642 - General Preparation

Blank (BFC0642-BLK1)

Prepared: 03/28/22 Analyzed: 04/07/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFC0642-BS1)

Prepared: 03/28/22 Analyzed: 04/07/22

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.19	0.0500	"	5.00	104	70-130
Sodium	5.12	0.0500	"	5.00	102	70-130

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BFC0628 - General Preparation

Duplicate (BFC0628-DUP1)

Source: 2203095-06

Prepared & Analyzed: 03/28/22

% Solids	85.7	%	85.7	0.0328	20
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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFC0677 - General Preparation

Blank (BFC0677-BLK1)

Prepared & Analyzed: 03/29/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFC0677-BS1)

Prepared & Analyzed: 03/29/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BFC0677-DUP1)

Source: 2203350-01

Prepared & Analyzed: 03/29/22

Specific Conductance (EC) 3.43 0.0100 mmhos/cm 3.45 0.581 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

05/16/22 12:22

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFC0678 - General Preparation

LCS (BFC0678-BS1)

Prepared & Analyzed: 03/29/22

pH	9.12	pH Units	9.18	99.3	95-105
----	------	----------	------	------	--------

Duplicate (BFC0678-DUP1)

Source: 2203350-01

Prepared & Analyzed: 03/29/22

pH	7.85	pH Units	7.84	0.127	20
----	------	----------	------	-------	----

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
05/16/22 12:22

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
I-02	This sample was analyzed outside of the recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 11, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

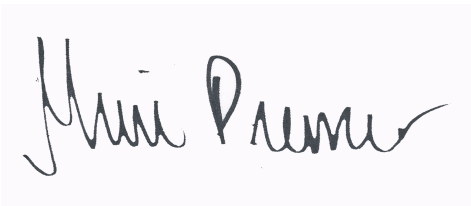
Broomfield, CO 80020

RE: Noble - Baker B02-05

Work Order #2203451

Enclosed are the results of analyses for samples received by Summit Scientific on 03/25/22 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-V@3'	2203451-01	Soil	03/25/22 12:30	03/25/22 15:40

Summit Scientific

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.

Summit Scientific

S₂


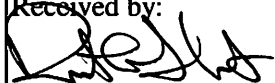
2203451

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client:	Noble / Tasman Geosciences	Project Manager:	Jake Whritenour, Invoice: <u>Wade Firestone</u>
Address:	6855 W. 119th Ave.	E-Mail:	jwhritenour@tasman-geo.com/ Noble Group
City/State/Zip:	Broomfield / CO/ 80020		
Phone:	303-827-1511	Project Name:	<u>Baker B02-05</u>
Sampler Name: Hunter Merlo		Project Number:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	8260 BTEX	VOC - 915	TPH - 915	PAH - 915	pH, EC, SAR	Boron - HWS			
1	FL01-Ve3'	3/25/22	1230	2			X			X				X	X	X	X	X			pH, EC, SAR by saturated paste
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
	3/25/22 1540	Tasman's Lock Box	3/25/22 1540	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	X Standard	
Tasman's Lock Box			3/25/22 1540	48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt: <u>55</u>		
				Samples Intact: (Yes) No		



Sample Receipt Checklist

S2 Work Order# 2203451

Client: Noble Hasman Client Project ID: Baker Bo2-05Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	5.5
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<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 in case narrative.

Custodian Printed Name or Initials3.25.22
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

FL01-V@3'
2203451-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0622	03/28/22	03/29/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		143 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0624	03/28/22	03/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

FL01-V@3'
2203451-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0625	03/28/22	03/30/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.245	0.0100	mg/L	1	BFC0713	03/30/22	04/06/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

FL01-V@3'
2203451-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	169	0.0550	mg/L dry	1	BFC0750	03/31/22	04/03/22	EPA 6020B
Magnesium	85.5	0.0550	"	"	"	"	"	"
Sodium	127	0.0550	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.99	0.00100	units	1	BFD0040	04/03/22	04/03/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BFC0748	03/31/22	03/31/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.22	0.0100	mmhos/cm	1	BFD0028	04/01/22	04/01/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/25/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BFD0029	04/01/22	04/01/22	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0622 - EPA 5030 Soil MS

Blank (BFC0622-BLK1)

Prepared: 03/28/22 Analyzed: 03/29/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

LCS (BFC0622-BS1)

Prepared: 03/28/22 Analyzed: 03/29/22

Benzene	0.148	0.0020	mg/kg	0.150		98.8	70-130			
Toluene	0.146	0.0050	"	0.150		97.3	70-130			
Ethylbenzene	0.145	0.0050	"	0.150		96.7	70-130			
m,p-Xylene	0.287	0.010	"	0.300		95.8	70-130			
o-Xylene	0.146	0.0050	"	0.150		97.0	70-130			
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.150		96.3	70-130			
1,3,5-Trimethylbenzene	0.144	0.0050	"	0.150		95.8	70-130			
Naphthalene	0.147	0.0038	"	0.150		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.4	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

Matrix Spike (BFC0622-MS1)

Source: 2203403-01

Prepared: 03/28/22 Analyzed: 03/29/22

Benzene	0.134	0.0020	mg/kg	0.150	ND	89.3	70-130			
Toluene	0.134	0.0050	"	0.150	ND	89.0	70-130			
Ethylbenzene	0.128	0.0050	"	0.150	ND	85.7	70-130			
m,p-Xylene	0.248	0.010	"	0.300	ND	82.7	70-130			
o-Xylene	0.130	0.0050	"	0.150	ND	86.4	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.150	ND	72.2	70-130			
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.150	ND	77.5	70-130			
Naphthalene	0.155	0.0038	"	0.150	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0622 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0622-MSD1)

Source: 2203403-01

Prepared: 03/28/22 Analyzed: 03/29/22

Benzene	0.124	0.0020	mg/kg	0.150	ND	83.0	70-130	7.38	30	
Toluene	0.123	0.0050	"	0.150	ND	82.0	70-130	8.24	30	
Ethylbenzene	0.118	0.0050	"	0.150	ND	78.7	70-130	8.42	30	
m,p-Xylene	0.227	0.010	"	0.300	ND	75.6	70-130	8.94	30	
o-Xylene	0.118	0.0050	"	0.150	ND	78.9	70-130	9.03	30	
1,2,4-Trimethylbenzene	0.132	0.0050	"	0.150	ND	87.7	70-130	19.3	30	
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.150	ND	72.4	70-130	6.80	30	
Naphthalene	0.148	0.0038	"	0.150	ND	98.6	70-130	4.77	30	
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	50-150			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFC0624 - EPA 3550A

Blank (BFC0624-BLK1)

Prepared: 03/28/22 Analyzed: 03/29/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFC0624-BS1)

Prepared: 03/28/22 Analyzed: 03/29/22

C10-C28 (DRO)	468	50	mg/kg	500	93.5	70-130
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Matrix Spike (BFC0624-MS1)

Source: 2203414-01

Prepared: 03/28/22 Analyzed: 03/29/22

C10-C28 (DRO)	464	50	mg/kg	500	32.9	86.2	70-130
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Matrix Spike Dup (BFC0624-MSD1)

Source: 2203414-01

Prepared: 03/28/22 Analyzed: 03/29/22

C10-C28 (DRO)	465	50	mg/kg	500	32.9	86.3	70-130	0.114	20
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Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0625 - EPA 5030 Soil MS

Blank (BFC0625-BLK1)

Prepared: 03/28/22 Analyzed: 03/30/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0172		"	0.0333		51.5		40-150			
Surrogate: Fluoranthene-d10	0.0174		"	0.0333		52.1		40-150			

LCS (BFC0625-BS1)

Prepared: 03/28/22 Analyzed: 03/30/22

Acenaphthene	0.0201	0.00500	mg/kg	0.0333		60.2		31-137			
Anthracene	0.0262	0.00500	"	0.0333		78.7		30-120			
Benzo (a) anthracene	0.0232	0.00500	"	0.0333		69.5		30-120			
Benzo (a) pyrene	0.0251	0.00500	"	0.0333		75.4		30-120			
Benzo (b) fluoranthene	0.0253	0.00500	"	0.0333		75.8		30-120			
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333		43.8		30-120			
Chrysene	0.0254	0.00500	"	0.0333		76.2		30-120			
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333		57.4		30-120			
Fluoranthene	0.0267	0.00500	"	0.0333		80.1		30-120			
Fluorene	0.0230	0.00500	"	0.0333		68.9		30-120			
Indeno (1,2,3-cd) pyrene	0.0243	0.00500	"	0.0333		72.9		30-120			
Pyrene	0.0266	0.00500	"	0.0333		79.8		35-142			
1-Methylnaphthalene	0.0237	0.00500	"	0.0333		71.0		35-142			
2-Methylnaphthalene	0.0248	0.00500	"	0.0333		74.4		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0258		"	0.0333		77.4		40-150			
Surrogate: Fluoranthene-d10	0.0255		"	0.0333		76.6		40-150			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0625 - EPA 5030 Soil MS

Matrix Spike (BFC0625-MS1)

Source: 2203427-01

Prepared: 03/28/22 Analyzed: 03/30/22

Acenaphthene	0.0136	0.00500	mg/kg	0.0333	ND	40.7	31-137				
Anthracene	0.0205	0.00500	"	0.0333	ND	61.4	30-120				
Benzo (a) anthracene	0.0195	0.00500	"	0.0333	ND	58.6	30-120				
Benzo (a) pyrene	0.0209	0.00500	"	0.0333	ND	62.6	30-120				
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.0	30-120				
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Chrysene	0.0209	0.00500	"	0.0333	ND	62.7	30-120				
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120				
Fluoranthene	0.0220	0.00500	"	0.0333	ND	65.9	30-120				
Fluorene	0.0152	0.00500	"	0.0333	ND	45.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0209	0.00500	"	0.0333	ND	62.8	30-120				
Pyrene	0.0213	0.00500	"	0.0333	ND	64.0	35-142				
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.4	15-130				
2-Methylnaphthalene	0.0214	0.00500	"	0.0333	ND	64.3	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0204		"	0.0333		61.3	40-150				
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.3	40-150				

Matrix Spike Dup (BFC0625-MSD1)

Source: 2203427-01

Prepared: 03/28/22 Analyzed: 03/30/22

Acenaphthene	0.0151	0.00500	mg/kg	0.0333	ND	45.2	31-137	10.4	30		
Anthracene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	3.63	30		
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	1.24	30		
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	ND	53.6	30-120	15.5	30		
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	10.5	30		
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	5.12	30		
Chrysene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	6.16	30		
Dibenz (a,h) anthracene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	17.3	30		
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	1.07	30		
Fluorene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	1.03	30		
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	6.33	30		
Pyrene	0.0222	0.00500	"	0.0333	ND	66.7	35-142	4.19	30		
1-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.7	15-130	15.0	50		
2-Methylnaphthalene	0.0340	0.00500	"	0.0333	ND	102	15-130	45.3	50		
Surrogate: 2-Methylnaphthalene-d10	0.0347		"	0.0333		104	40-150				
Surrogate: Fluoranthene-d10	0.0356		"	0.0333		107	40-150				

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFC0713 - EPA 3050B

Blank (BFC0713-BLK1)

Prepared: 03/30/22 Analyzed: 04/06/22

Boron ND 0.0100 mg/L

LCS (BFC0713-BS1)

Prepared: 03/30/22 Analyzed: 04/06/22

Boron 4.78 0.0100 mg/L 5.00 95.5 80-120

Duplicate (BFC0713-DUP1)

Source: 2203095-06

Prepared: 03/30/22 Analyzed: 04/06/22

Boron 0.0744 0.0100 mg/L 0.0750 0.826 20

Matrix Spike (BFC0713-MS1)

Source: 2203095-06

Prepared: 03/30/22 Analyzed: 04/06/22

Boron 4.94 0.0100 mg/L 5.00 0.0750 97.2 75-125

Matrix Spike Dup (BFC0713-MSD1)

Source: 2203095-06

Prepared: 03/30/22 Analyzed: 04/06/22

Boron 4.79 0.0100 mg/L 5.00 0.0750 94.2 75-125 3.09 25

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFC0750 - General Preparation

Blank (BFC0750-BLK1)

Prepared: 03/31/22 Analyzed: 04/03/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFC0750-BS1)

Prepared: 03/31/22 Analyzed: 04/03/22

Calcium	5.20	0.0500	mg/L wet	5.00	104	70-130
Magnesium	5.57	0.0500	"	5.00	111	70-130
Sodium	5.09	0.0500	"	5.00	102	70-130

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BFC0748 - General Preparation

Duplicate (BFC0748-DUP1)

Source: 2203186-01

Prepared & Analyzed: 03/31/22

% Solids	96.8	%	96.8	0.0147	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFD0028 - General Preparation

Blank (BFD0028-BLK1)

Prepared & Analyzed: 04/01/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFD0028-BS1)

Prepared & Analyzed: 04/01/22

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BFD0028-DUP1)

Source: 2202202-01

Prepared & Analyzed: 04/01/22

Specific Conductance (EC) 0.513 0.0100 mmhos/cm 0.518 1.09 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFD0029 - General Preparation

LCS (BFD0029-BS1)

Prepared & Analyzed: 04/01/22

pH	9.01	pH Units	9.18	98.1	95-105
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Duplicate (BFD0029-DUP1)

Source: 2202202-01

Prepared & Analyzed: 04/01/22

pH	8.14	pH Units	8.11	0.369	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:45

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 11, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

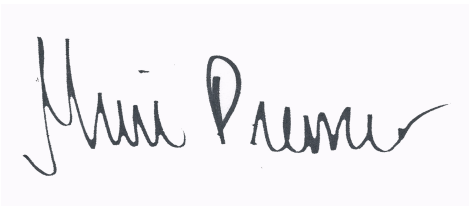
Broomfield, CO 80020

RE: Noble - Baker B02-05

Work Order #2203457

Enclosed are the results of analyses for samples received by Summit Scientific on 03/28/22 16:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-W@3'	2203457-01	Soil	03/28/22 13:35	03/28/22 16:05
FL01-Z@3'	2203457-02	Soil	03/28/22 13:50	03/28/22 16:05

Summit Scientific

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.

Summit Scientific 2203457

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Noble / Tasman Geosciences	Project Manager: Jake Whritenour, Invoice: <u>Wade Firestien</u>
Address: 6855 W. 119th Ave.	E-Mail: jwhritenour@tasman-geo.com/ Noble Group
City/State/Zip: Broomfield / CO/ 80020	
Phone: 303-827-1511	Project Name: <u>Baker B02-05</u>
Sampler Name: Hunter Merlo	
Project Number:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	8260 BTEX	VOC - 915	TPH - 915	PAH - 915	pH, EC, SAR	Boron - HWS			
1	FL01-W@3'	3/28/22	1335	2			X			X				X	X	X	X	X			
2	FL01-Z@3'	3/28/22	1350	2			X			X				X	X	X	X	X			
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>Hunter Merlo</u>	Date/Time: 3/28/22 1605	Received by: <u>Tasman's Lock Box</u> <u>Summit</u>	Date/Time: 3/28/22 1605	Turn Around Time (Check) <input type="checkbox"/> Same Day 72 hours <input checked="" type="checkbox"/> 24 hours Standard <input type="checkbox"/> 48 hours	Notes:
Relinquished by: Tasman's Lock Box	Date/Time:	Received by: <u>[Signature]</u>	Date/Time: 3/28/22 1605	Sample Integrity:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: <u>7.3</u> Samples Intact: <input checked="" type="checkbox"/> Yes No	



2203457

Sample Receipt Checklist

S2 Work Order#

Client: Noble TasmanClient Project ID: Baker B 02-05Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

Matrix (check all that apply):

☐

Air

☒

Soil/Solid

☐

Water

☐

Other:

(Describe)

Temp (°C)

7.3

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<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 in case narrative.
Custodian Printed Name or Initials3.28.22
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

FL01-W@3'
2203457-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0655	03/29/22	03/31/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		146 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0656	03/29/22	03/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

FL01-W@3'
2203457-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0704	03/30/22	04/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		108 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		94.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.239	0.0100	mg/L	1	BFD0003	04/01/22	04/03/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

FL01-W@3'
2203457-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	323	0.0552	mg/L dry	1	BFD0087	04/05/22	04/08/22	EPA 6020B
Magnesium	654	0.0552	"	"	"	"	"	"
Sodium	1910	0.0552	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.1	0.00100	units	1	BFD0181	04/09/22	04/09/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BFC0715	03/30/22	03/31/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.49	0.0100	mmhos/cm	1	BFD0107	04/06/22	04/07/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/28/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BFD0108	04/06/22	04/06/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

FL01-Z@3'
2203457-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0655	03/29/22	03/31/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		146 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0656	03/29/22	03/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		95.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

FL01-Z@3'
2203457-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0704	03/30/22	04/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0886	0.0100	mg/L	1	BFD0003	04/01/22	04/03/22	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

FL01-Z@3'
2203457-02 (Soil)

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Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Calcium	281	0.0560	mg/L dry	1	BFD0087	04/05/22	04/08/22	EPA 6020B
Magnesium	160	0.0560	"	"	"	"	"	"
Sodium	200	0.0560	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.36	0.00100	units	1	BFD0181	04/09/22	04/09/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BFC0715	03/30/22	03/31/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.78	0.0100	mmhos/cm	1	BFD0107	04/06/22	04/07/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/28/22 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BFD0108	04/06/22	04/06/22	EPA 9045D	

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Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0655 - EPA 5030 Soil MS

Blank (BFC0655-BLK1)

Prepared: 03/29/22 Analyzed: 03/31/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0586		"	0.0400		147	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0439		"	0.0400		110	50-150			

LCS (BFC0655-BS1)

Prepared: 03/29/22 Analyzed: 03/31/22

Benzene	0.0955	0.0020	mg/kg	0.100		95.5	70-130			
Toluene	0.103	0.0050	"	0.100		103	70-130			
Ethylbenzene	0.0936	0.0050	"	0.100		93.6	70-130			
m,p-Xylene	0.192	0.010	"	0.200		95.9	70-130			
o-Xylene	0.0968	0.0050	"	0.100		96.8	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.122	0.0038	"	0.100		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0536		"	0.0400		134	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0445		"	0.0400		111	50-150			

Matrix Spike (BFC0655-MS1)

Source: 2202084-01

Prepared: 03/29/22 Analyzed: 03/31/22

Benzene	0.0977	0.0020	mg/kg	0.100	ND	97.7	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.0944	0.0050	"	0.100	ND	94.4	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	98.2	70-130			
o-Xylene	0.0987	0.0050	"	0.100	ND	98.7	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
Naphthalene	0.133	0.0038	"	0.100	0.0124	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0554		"	0.0400		139	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0452		"	0.0400		113	50-150			

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6855 W. 119th Ave.
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Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0655 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0655-MSD1)

Source: 2202084-01

Prepared: 03/29/22 Analyzed: 03/31/22

Benzene	0.0965	0.0020	mg/kg	0.100	ND	96.5	70-130	1.27	30	
Toluene	0.102	0.0050	"	0.100	ND	102	70-130	3.81	30	
Ethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130	10.6	30	
m,p-Xylene	0.176	0.010	"	0.200	ND	88.0	70-130	10.9	30	
o-Xylene	0.0892	0.0050	"	0.100	ND	89.2	70-130	10.2	30	
1,2,4-Trimethylbenzene	0.0986	0.0050	"	0.100	ND	98.6	70-130	10.8	30	
1,3,5-Trimethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	70-130	12.8	30	
Naphthalene	0.129	0.0038	"	0.100	0.0124	117	70-130	2.95	30	
Surrogate: 1,2-Dichloroethane-d4	0.0561		"	0.0400		140	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0473		"	0.0400		118	50-150			

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Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFC0656 - EPA 3550A

Blank (BFC0656-BLK1)

Prepared & Analyzed: 03/29/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFC0656-BS1)

Prepared & Analyzed: 03/29/22

C10-C28 (DRO)	439	50	mg/kg	500	87.9	70-130
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Matrix Spike (BFC0656-MS1)

Source: 2202084-01

Prepared & Analyzed: 03/29/22

C10-C28 (DRO)	489	50	mg/kg	500	11.1	95.5	70-130
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Matrix Spike Dup (BFC0656-MSD1)

Source: 2202084-01

Prepared & Analyzed: 03/29/22

C10-C28 (DRO)	441	50	mg/kg	500	11.1	86.1	70-130	10.1	20
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05
Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0704 - EPA 5030 Soil MS

Blank (BFC0704-BLK1)

Prepared: 03/30/22 Analyzed: 04/05/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.2	40-150			
Surrogate: Fluoranthene-d10	0.0217		"	0.0333		65.0	40-150			

LCS (BFC0704-BS1)

Prepared: 03/30/22 Analyzed: 04/06/22

Acenaphthene	0.0274	0.00500	mg/kg	0.0333		82.3	31-137			
Anthracene	0.0282	0.00500	"	0.0333		84.6	30-120			
Benzo (a) anthracene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (a) pyrene	0.0294	0.00500	"	0.0333		88.1	30-120			
Benzo (b) fluoranthene	0.0329	0.00500	"	0.0333		98.7	30-120			
Benzo (k) fluoranthene	0.0365	0.00500	"	0.0333		110	30-120			
Chrysene	0.0320	0.00500	"	0.0333		96.0	30-120			
Dibenz (a,h) anthracene	0.0214	0.00500	"	0.0333		64.3	30-120			
Fluoranthene	0.0284	0.00500	"	0.0333		85.1	30-120			
Fluorene	0.0284	0.00500	"	0.0333		85.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333		75.4	30-120			
Pyrene	0.0342	0.00500	"	0.0333		103	35-142			
1-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.1	35-142			
2-Methylnaphthalene	0.0284	0.00500	"	0.0333		85.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0274		"	0.0333		82.3	40-150			
Surrogate: Fluoranthene-d10	0.0294		"	0.0333		88.3	40-150			

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Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0704 - EPA 5030 Soil MS

Matrix Spike (BFC0704-MS1)

Source: 2203457-01

Prepared: 03/30/22 Analyzed: 04/06/22

Acenaphthene	0.0226	0.00500	mg/kg	0.0333	ND	67.9	31-137				
Anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120				
Benzo (a) anthracene	0.0262	0.00500	"	0.0333	ND	78.6	30-120				
Benzo (a) pyrene	0.0261	0.00500	"	0.0333	ND	78.3	30-120				
Benzo (b) fluoranthene	0.0286	0.00500	"	0.0333	ND	85.9	30-120				
Benzo (k) fluoranthene	0.0330	0.00500	"	0.0333	ND	99.1	30-120				
Chrysene	0.0276	0.00500	"	0.0333	ND	82.7	30-120				
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Fluoranthene	0.0253	0.00500	"	0.0333	ND	75.8	30-120				
Fluorene	0.0220	0.00500	"	0.0333	ND	65.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0220	0.00500	"	0.0333	ND	65.9	30-120				
Pyrene	0.0305	0.00500	"	0.0333	ND	91.6	35-142				
1-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.1	15-130				
2-Methylnaphthalene	0.0266	0.00500	"	0.0333	ND	79.9	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.0	40-150				
Surrogate: Fluoranthene-d10	0.0248		"	0.0333		74.4	40-150				

Matrix Spike Dup (BFC0704-MSD1)

Source: 2203457-01

Prepared: 03/30/22 Analyzed: 04/06/22

Acenaphthene	0.0231	0.00500	mg/kg	0.0333	ND	69.3	31-137	2.14	30		
Anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	5.58	30		
Benzo (a) anthracene	0.0258	0.00500	"	0.0333	ND	77.4	30-120	1.58	30		
Benzo (a) pyrene	0.0248	0.00500	"	0.0333	ND	74.4	30-120	5.02	30		
Benzo (b) fluoranthene	0.0270	0.00500	"	0.0333	ND	81.0	30-120	5.91	30		
Benzo (k) fluoranthene	0.0331	0.00500	"	0.0333	ND	99.4	30-120	0.334	30		
Chrysene	0.0283	0.00500	"	0.0333	ND	84.8	30-120	2.48	30		
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	8.15	30		
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.7	30-120	11.2	30		
Fluorene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	5.61	30		
Indeno (1,2,3-cd) pyrene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	3.22	30		
Pyrene	0.0300	0.00500	"	0.0333	ND	89.9	35-142	1.92	30		
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.3	15-130	5.08	50		
2-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.1	15-130	18.9	50		
Surrogate: 2-Methylnaphthalene-d10	0.0222		"	0.0333		66.5	40-150				
Surrogate: Fluoranthene-d10	0.0240		"	0.0333		71.9	40-150				

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFD0003 - EPA 3050B

Blank (BFD0003-BLK1)

Prepared: 04/01/22 Analyzed: 04/03/22

Boron ND 0.0100 mg/L

LCS (BFD0003-BS1)

Prepared: 04/01/22 Analyzed: 04/03/22

Boron 4.74 0.0100 mg/L 5.00 94.9 80-120

Duplicate (BFD0003-DUP1)

Source: 2202084-01

Prepared: 04/01/22 Analyzed: 04/03/22

Boron ND 0.0100 mg/L ND 20

Matrix Spike (BFD0003-MS1)

Source: 2202084-01

Prepared: 04/01/22 Analyzed: 04/03/22

Boron 4.85 0.0100 mg/L 5.00 ND 96.9 75-125

Matrix Spike Dup (BFD0003-MSD1)

Source: 2202084-01

Prepared: 04/01/22 Analyzed: 04/03/22

Boron 4.87 0.0100 mg/L 5.00 ND 97.4 75-125 0.559 25

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Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFD0087 - General Preparation

Blank (BFD0087-BLK1)

Prepared: 04/05/22 Analyzed: 04/08/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFD0087-BS1)

Prepared: 04/05/22 Analyzed: 04/08/22

Calcium	5.40	0.0500	mg/L wet	5.00	108	70-130
Magnesium	5.23	0.0500	"	5.00	105	70-130
Sodium	5.16	0.0500	"	5.00	103	70-130

Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BFC0715 - General Preparation

Duplicate (BFC0715-DUP1)

Source: 2203456-03

Prepared: 03/30/22 Analyzed: 03/31/22

% Solids	94.6	%	94.5	0.111	20
----------	------	---	------	-------	----

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFD0107 - General Preparation

Blank (BFD0107-BLK1)

Prepared: 04/06/22 Analyzed: 04/07/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFD0107-BS1)

Prepared: 04/06/22 Analyzed: 04/07/22

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BFD0107-DUP1)

Source: 2203186-01

Prepared: 04/06/22 Analyzed: 04/07/22

Specific Conductance (EC) 0.256 0.0100 mmhos/cm 0.256 0.00 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFD0108 - General Preparation

LCS (BFD0108-BS1)

Prepared & Analyzed: 04/06/22

pH	9.08	pH Units	9.18	98.9	95-105
----	------	----------	------	------	--------

Duplicate (BFD0108-DUP1)

Source: 2203186-01

Prepared: 04/06/22 Analyzed: 04/07/22

pH	7.84	pH Units	7.85	0.127	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/11/22 11:41

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 20, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Baker B02-05 FL

Work Order #2206199

Enclosed are the results of analyses for samples received by Summit Scientific on 06/13/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH02@3-4'	2206199-01	Soil	06/13/22 10:20	06/13/22 16:00
BH03@3-4'	2206199-02	Soil	06/13/22 11:25	06/13/22 16:00
BH04@3-4'	2206199-03	Soil	06/13/22 12:00	06/13/22 16:00
BH05@3-4'	2206199-04	Soil	06/13/22 09:50	06/13/22 16:00
BH06@3-4'	2206199-05	Soil	06/13/22 12:20	06/13/22 16:00

Summit Scientific

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.

Summit Scientific

S₂


2206199


4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Noble / Tasman Geosciences Project Manager: Jake Whritenour, Invoice: Erica Zuniga
Address: 6855 W. 119th Ave. E-Mail: jwhritenour@tasman-geo.com/ Noble Group
City/State/Zip: Broomfield / CO/ 80020
Phone: 303-827-1511 Project Name: Baker 802-05 FL
Sampler Name: Hunter Merlo Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	8260 BTEX	VOC - 915	TPH - 915	PAH - 915	pH, EC, SAR	Boron - HWS	Metals - 915		
1	BH02 @ 3-4'	6/13/22	1020	2			X			X				X	X	X	X	X	X		pH, EC, SAR by saturated paste
2	BH03 @ 3-4'		1125	2			X			X				X	X	X	X	X	X		
3	BH04 @ 3-4'		1200	2			X			X				X	X	X	X	X	X		
4	BH05 @ 3-4'		1950	2			X			X				X	X	X	X	X	X		
5	BH06 @ 3-4'		1220	2			X			X				X	X	X	X	X	X		
6																					
7																					
8																					
9																					
10																					

Relinquished by: 
Date/Time: 1400 6/13/22
Received by: Summit
Date/Time: 1400 6/13/22

Relinquished by: Summit
Date/Time: 1600 6/13/22
Received by: 
Date/Time: 1600 6/13/22

Relinquished by:
Date/Time:
Received by:
Date/Time:

Turn Around Time (Check)
Same Day _____ 72 hours _____
24 hours ☒ Standard
48 hours _____
Sample Integrity:
Temperature Upon Receipt: 60.3
Samples Intact: ☒ Yes No

Notes:

S₂

Sample Receipt Checklist

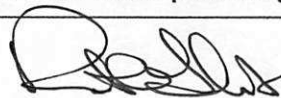
S2 Work Order# 2206199Client: Noble/Tasman Client Project ID: Baker BOZ-OS FL

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

	-			
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 6.3 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ice
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				



Custodian Printed Name

6/13/22
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH02@3-4'
2206199-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0403	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0405	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.8	102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH02@3-4'
2206199-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0367	06/14/22	06/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0605	0.0100	mg/L	1	BFF0418	06/15/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH02@3-4'
2206199-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.43	0.245	mg/kg dry	1	BFF0382	06/14/22	06/15/22	EPA 6020B
Barium	114	0.490	"	"	"	"	"	"
Cadmium	ND	0.245	"	"	"	"	"	"
Copper	9.95	0.490	"	"	"	"	"	"
Lead	7.02	0.245	"	"	"	"	"	"
Nickel	11.2	0.490	"	"	"	"	"	"
Selenium	0.827	0.319	"	"	"	"	"	"
Silver	0.0453	0.0245	"	"	"	"	"	"
Zinc	32.7	0.490	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0451	06/16/22	06/16/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4370	0.0613	mg/L dry	1	BFF0384	06/14/22	06/17/22	EPA 6020B	
Magnesium	311	0.0613	"	"	"	"	"	"	
Sodium	47.7	0.0613	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.188	0.00100	units	1	BFF0492	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH02@3-4'
2206199-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.6	%	1	BFF0465	06/16/22	06/17/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.486	0.0100	mmhos/cm	1	BFF0385	06/14/22	06/14/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/13/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BFF0386	06/14/22	06/14/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH03@3-4'
2206199-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0403	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0405	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.3	98.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH03@3-4'
2206199-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0367	06/14/22	06/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	69.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	69.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0518	0.0100	mg/L	1	BFF0418	06/15/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH03@3-4'
2206199-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.46	0.248	mg/kg dry	1	BFF0382	06/14/22	06/15/22	EPA 6020B
Barium	141	0.496	"	"	"	"	"	"
Cadmium	ND	0.248	"	"	"	"	"	"
Copper	9.48	0.496	"	"	"	"	"	"
Lead	7.31	0.248	"	"	"	"	"	"
Nickel	11.3	0.496	"	"	"	"	"	"
Selenium	0.851	0.322	"	"	"	"	"	"
Silver	ND	0.0248	"	"	"	"	"	"
Zinc	32.1	0.496	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0451	06/16/22	06/16/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6810	0.0619	mg/L dry	1	BFF0384	06/14/22	06/17/22	EPA 6020B	
Magnesium	390	0.0619	"	"	"	"	"	"	
Sodium	36.1	0.0619	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.115	0.00100	units	1	BFF0492	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH03@3-4'
2206199-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.7		%	1	BFF0465	06/16/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.390	0.0100	mmhos/cm	1	BFF0385	06/14/22	06/14/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/13/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BFF0386	06/14/22	06/14/22	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH04@3-4'
2206199-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0403	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0284	70.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	92.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0405	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH04@3-4'
2206199-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0367	06/14/22	06/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0587	0.0100	mg/L	1	BFF0418	06/15/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH04@3-4'
2206199-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.33	0.244	mg/kg dry	1	BFF0382	06/14/22	06/15/22	EPA 6020B
Barium	120	0.487	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	8.73	0.487	"	"	"	"	"	"
Lead	7.26	0.244	"	"	"	"	"	"
Nickel	10.9	0.487	"	"	"	"	"	"
Selenium	0.733	0.317	"	"	"	"	"	"
Silver	0.0386	0.0244	"	"	"	"	"	"
Zinc	34.5	0.487	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0451	06/16/22	06/16/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3980	0.0609	mg/L dry	1	BFF0384	06/14/22	06/17/22	EPA 6020B	
Magnesium	362	0.0609	"	"	"	"	"	"	
Sodium	40.0	0.0609	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.163	0.00100	units	1	BFF0492	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH04@3-4'
2206199-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.1	%	1	BFF0465	06/16/22	06/17/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.433	0.0100	mmhos/cm	1	BFF0385	06/14/22	06/14/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/13/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BFF0386	06/14/22	06/14/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH05@3-4'
2206199-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0403	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0426	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0405	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.5	99.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH05@3-4'
2206199-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0367	06/14/22	06/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0219	65.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0968	0.0100	mg/L	1	BFF0418	06/15/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH05@3-4'
2206199-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.27	0.249	mg/kg dry	1	BFF0382	06/14/22	06/15/22	EPA 6020B
Barium	147	0.498	"	"	"	"	"	"
Cadmium	ND	0.249	"	"	"	"	"	"
Copper	10.2	0.498	"	"	"	"	"	"
Lead	7.27	0.249	"	"	"	"	"	"
Nickel	11.6	0.498	"	"	"	"	"	"
Selenium	0.900	0.324	"	"	"	"	"	"
Silver	0.0419	0.0249	"	"	"	"	"	"
Zinc	33.1	0.498	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0451	06/16/22	06/16/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4220	0.0623	mg/L dry	1	BFF0384	06/14/22	06/17/22	EPA 6020B	
Magnesium	368	0.0623	"	"	"	"	"	"	
Sodium	59.6	0.0623	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.236	0.00100	units	1	BFF0492	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH05@3-4'
2206199-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.3	%	1	BFF0465	06/16/22	06/17/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.493	0.0100	mmhos/cm	1	BFF0385	06/14/22	06/14/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/13/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BFF0386	06/14/22	06/14/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH06@3-4'
2206199-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0403	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0436	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	95.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0405	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.7	102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH06@3-4'
2206199-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0367	06/14/22	06/15/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0269	80.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0254	76.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0884	0.0100	mg/L	1	BFF0418	06/15/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH06@3-4'
2206199-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.47	0.223	mg/kg dry	1	BFF0382	06/14/22	06/15/22	EPA 6020B
Barium	96.4	0.447	"	"	"	"	"	"
Cadmium	ND	0.223	"	"	"	"	"	"
Copper	10.8	0.447	"	"	"	"	"	"
Lead	7.69	0.223	"	"	"	"	"	"
Nickel	11.8	0.447	"	"	"	"	"	"
Selenium	0.930	0.290	"	"	"	"	"	"
Silver	0.0518	0.0223	"	"	"	"	"	"
Zinc	35.2	0.447	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0451	06/16/22	06/16/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	561	0.0558	mg/L dry	1	BFF0384	06/14/22	06/17/22	EPA 6020B	
Magnesium	149	0.0558	"	"	"	"	"	"	
Sodium	101	0.0558	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.979	0.00100	units	1	BFF0492	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

BH06@3-4'
2206199-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.6	%	1	BFF0465	06/16/22	06/17/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BFF0385	06/14/22	06/14/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/13/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BFF0386	06/14/22	06/14/22	EPA 9045D	

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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFF0403 - EPA 5030 Soil MS

Blank (BFF0403-BLK1)

Prepared & Analyzed: 06/15/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.4	50-150			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	50-150			

LCS (BFF0403-BS1)

Prepared & Analyzed: 06/15/22

Benzene	0.0902	0.0020	mg/kg	0.125		72.1	70-130			
Toluene	0.0936	0.0050	"	0.125		74.9	70-130			
Ethylbenzene	0.148	0.0050	"	0.125		118	70-130			
m,p-Xylene	0.264	0.010	"	0.250		106	70-130			
o-Xylene	0.129	0.0050	"	0.125		104	70-130			
1,2,4-Trimethylbenzene	0.154	0.0050	"	0.125		123	70-130			
1,3,5-Trimethylbenzene	0.155	0.0050	"	0.125		124	70-130			
Naphthalene	0.147	0.0038	"	0.125		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.4	50-150			

Matrix Spike (BFF0403-MS1)

Source: 2206173-01

Prepared & Analyzed: 06/15/22

Benzene	0.0916	0.0020	mg/kg	0.125	ND	73.3	70-130			
Toluene	0.0950	0.0050	"	0.125	ND	76.0	70-130			
Ethylbenzene	0.143	0.0050	"	0.125	ND	115	70-130			
m,p-Xylene	0.258	0.010	"	0.250	ND	103	70-130			
o-Xylene	0.127	0.0050	"	0.125	ND	102	70-130			
1,2,4-Trimethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130			
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.125	ND	121	70-130			
Naphthalene	0.132	0.0038	"	0.125	0.00816	99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		97.1	50-150			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.0	50-150			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFF0403 - EPA 5030 Soil MS

Matrix Spike Dup (BFF0403-MSD1)

Source: 2206173-01

Prepared & Analyzed: 06/15/22

Benzene	0.0893	0.0020	mg/kg	0.125	ND	71.5	70-130	2.55	30	
Toluene	0.0914	0.0050	"	0.125	ND	73.1	70-130	3.90	30	
Ethylbenzene	0.147	0.0050	"	0.125	ND	117	70-130	2.17	30	
m,p-Xylene	0.258	0.010	"	0.250	ND	103	70-130	0.198	30	
o-Xylene	0.129	0.0050	"	0.125	ND	103	70-130	1.31	30	
1,2,4-Trimethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130	0.944	30	
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130	0.299	30	
Naphthalene	0.140	0.0038	"	0.125	0.00816	105	70-130	5.93	30	
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		98.0	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.1	50-150			

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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFF0405 - EPA 3550A

Blank (BFF0405-BLK1)

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFF0405-BS1)

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	412	50	mg/kg	500	82.4	70-130
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Matrix Spike (BFF0405-MS1)

Source: 2206173-01

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	456	50	mg/kg	500	10.1	89.3	70-130
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Matrix Spike Dup (BFF0405-MSD1)

Source: 2206173-01

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	480	50	mg/kg	500	10.1	94.0	70-130	5.06	20
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFF0367 - EPA 5030 Soil MS

Blank (BFF0367-BLK1)

Prepared & Analyzed: 06/14/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0300		"	0.0333		90.1		40-150			
Surrogate: Fluoranthene-d10	0.0258		"	0.0333		77.3		40-150			

LCS (BFF0367-BS1)

Prepared & Analyzed: 06/14/22

Acenaphthene	0.0338	0.00500	mg/kg	0.0333		101		31-137			
Anthracene	0.0334	0.00500	"	0.0333		100		30-120			
Benzo (a) anthracene	0.0289	0.00500	"	0.0333		86.7		30-120			
Benzo (a) pyrene	0.0270	0.00500	"	0.0333		80.9		30-120			
Benzo (b) fluoranthene	0.0330	0.00500	"	0.0333		99.1		30-120			
Benzo (k) fluoranthene	0.0393	0.00500	"	0.0333		118		30-120			
Chrysene	0.0333	0.00500	"	0.0333		99.9		30-120			
Dibenz (a,h) anthracene	0.0303	0.00500	"	0.0333		90.9		30-120			
Fluoranthene	0.0344	0.00500	"	0.0333		103		30-120			
Fluorene	0.0333	0.00500	"	0.0333		100		30-120			
Indeno (1,2,3-cd) pyrene	0.0255	0.00500	"	0.0333		76.4		30-120			
Pyrene	0.0374	0.00500	"	0.0333		112		35-142			
1-Methylnaphthalene	0.0364	0.00500	"	0.0333		109		35-142			
2-Methylnaphthalene	0.0350	0.00500	"	0.0333		105		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0321		"	0.0333		96.2		40-150			
Surrogate: Fluoranthene-d10	0.0321		"	0.0333		96.4		40-150			

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFF0367 - EPA 5030 Soil MS

Matrix Spike (BFF0367-MS1)

Source: 2206122-02

Prepared & Analyzed: 06/14/22

Acenaphthene	0.0262	0.00500	mg/kg	0.0333	ND	78.7	31-137		
Anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120		
Benzo (a) anthracene	0.0206	0.00500	"	0.0333	ND	61.8	30-120		
Benzo (a) pyrene	0.0190	0.00500	"	0.0333	ND	57.0	30-120		
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333	ND	69.9	30-120		
Benzo (k) fluoranthene	0.0299	0.00500	"	0.0333	ND	89.6	30-120		
Chrysene	0.0235	0.00500	"	0.0333	ND	70.5	30-120		
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333	ND	74.0	30-120		
Fluoranthene	0.0246	0.00500	"	0.0333	ND	73.8	30-120		
Fluorene	0.0252	0.00500	"	0.0333	ND	75.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0205	0.00500	"	0.0333	ND	61.4	30-120		
Pyrene	0.0253	0.00500	"	0.0333	ND	76.0	35-142		
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	65.9	15-130		
2-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0229		"	0.0333		68.6	40-150		
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.7	40-150		

Matrix Spike Dup (BFF0367-MSD1)

Source: 2206122-02

Prepared & Analyzed: 06/14/22

Acenaphthene	0.0238	0.00500	mg/kg	0.0333	ND	71.5	31-137	9.68	30
Anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	0.0269	30
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	5.37	30
Benzo (a) pyrene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	1.55	30
Benzo (b) fluoranthene	0.0255	0.00500	"	0.0333	ND	76.4	30-120	8.88	30
Benzo (k) fluoranthene	0.0296	0.00500	"	0.0333	ND	88.7	30-120	1.04	30
Chrysene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	1.62	30
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	20.0	30
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.6	30-120	7.25	30
Fluorene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	7.55	30
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	4.49	30
Pyrene	0.0247	0.00500	"	0.0333	ND	74.1	35-142	2.54	30
1-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.5	15-130	8.20	50
2-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.2	15-130	4.22	50
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		65.9	40-150		
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		67.0	40-150		

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFF0418 - EPA 3050B

Blank (BFF0418-BLK1)

Prepared: 06/15/22 Analyzed: 06/18/22

Boron ND 0.0100 mg/L

LCS (BFF0418-BS1)

Prepared: 06/15/22 Analyzed: 06/18/22

Boron 5.57 0.0100 mg/L 5.00 111 80-120

Duplicate (BFF0418-DUP1)

Source: 2206191-01

Prepared: 06/15/22 Analyzed: 06/18/22

Boron 0.173 0.0100 mg/L 0.175 1.42 20

Matrix Spike (BFF0418-MS1)

Source: 2206191-01

Prepared: 06/15/22 Analyzed: 06/18/22

Boron 5.57 0.0100 mg/L 5.00 0.175 108 75-125

Matrix Spike Dup (BFF0418-MSD1)

Source: 2206191-01

Prepared: 06/15/22 Analyzed: 06/18/22

Boron 5.62 0.0100 mg/L 5.00 0.175 109 75-125 0.951 25

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFF0382 - EPA 3050B

Blank (BFF0382-BLK1)

Prepared: 06/14/22 Analyzed: 06/15/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFF0382-BS1)

Prepared: 06/14/22 Analyzed: 06/15/22

Arsenic	43.1	0.200	mg/kg wet	40.0	108	80-120
Barium	39.3	0.400	"	40.0	98.3	80-120
Cadmium	1.99	0.200	"	2.00	99.7	80-120
Copper	41.5	0.400	"	40.0	104	80-120
Lead	19.1	0.200	"	20.0	95.6	80-120
Nickel	40.7	0.400	"	40.0	102	80-120
Selenium	4.12	0.260	"	4.00	103	80-120
Silver	1.94	0.0200	"	2.00	96.8	80-120
Zinc	44.5	0.400	"	40.0	111	80-120

Duplicate (BFF0382-DUP1)

Source: 2206086-01

Prepared: 06/14/22 Analyzed: 06/15/22

Arsenic	2.92	0.224	mg/kg dry	2.63	10.4	20
Barium	70.0	0.447	"	59.9	15.5	20
Cadmium	0.118	0.224	"	0.116	1.86	20
Copper	12.9	0.447	"	15.4	18.2	20
Lead	40.8	0.224	"	44.7	9.04	20
Nickel	18.8	0.447	"	16.7	11.8	20
Selenium	0.611	0.291	"	0.671	9.35	20
Silver	0.0440	0.0224	"	0.0362	19.5	20
Zinc	33.1	0.447	"	27.8	17.5	20

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFF0382 - EPA 3050B

Matrix Spike (BFF0382-MS1)			Source: 2206086-01		Prepared: 06/14/22 Analyzed: 06/15/22					
Arsenic	52.3	0.224	mg/kg dry	44.7	2.63	111	75-125			
Barium	129	0.447	"	44.7	59.9	155	75-125			QM-05
Cadmium	2.56	0.224	"	2.24	0.116	109	75-125			
Copper	63.2	0.447	"	44.7	15.4	107	75-125			
Lead	94.5	0.224	"	22.4	44.7	223	75-125			QM-05
Nickel	66.5	0.447	"	44.7	16.7	111	75-125			
Selenium	4.81	0.291	"	4.47	0.671	92.5	75-125			
Silver	2.32	0.0224	"	2.24	0.0362	102	75-125			
Zinc	86.4	0.447	"	44.7	27.8	131	75-125			QM-05

Matrix Spike Dup (BFF0382-MSD1)			Source: 2206086-01		Prepared: 06/14/22 Analyzed: 06/15/22					
Arsenic	50.6	0.224	mg/kg dry	44.7	2.63	107	75-125	3.31	25	
Barium	113	0.447	"	44.7	59.9	119	75-125	13.3	25	
Cadmium	2.40	0.224	"	2.24	0.116	102	75-125	6.55	25	
Copper	59.7	0.447	"	44.7	15.4	98.9	75-125	5.72	25	
Lead	61.5	0.224	"	22.4	44.7	75.3	75-125	42.3	25	QM-05
Nickel	64.7	0.447	"	44.7	16.7	107	75-125	2.64	25	
Selenium	4.60	0.291	"	4.47	0.671	87.9	75-125	4.45	25	
Silver	2.21	0.0224	"	2.24	0.0362	97.3	75-125	4.88	25	
Zinc	82.4	0.447	"	44.7	27.8	122	75-125	4.81	25	

Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFF0451 - 3060A Mod

Blank (BFF0451-BLK1)

Prepared & Analyzed: 06/16/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFF0451-BS1)

Prepared & Analyzed: 06/16/22

Chromium, Hexavalent 26.1 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BFF0451-DUP1)

Source: 2206191-01

Prepared & Analyzed: 06/16/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFF0451-MS1)

Source: 2206191-01

Prepared & Analyzed: 06/16/22

Chromium, Hexavalent 34.5 0.30 mg/kg dry 28.6 ND 121 75-125

Matrix Spike Dup (BFF0451-MSD1)

Source: 2206191-01

Prepared & Analyzed: 06/16/22

Chromium, Hexavalent 33.9 0.30 mg/kg dry 28.6 ND 119 75-125 1.67 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

06/20/22 10:08

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFF0384 - General Preparation

Blank (BFF0384-BLK1)

Prepared: 06/14/22 Analyzed: 06/17/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFF0384-BS1)

Prepared: 06/14/22 Analyzed: 06/17/22

Calcium	536	0.0500	mg/L wet	500	107	70-130
Magnesium	532	0.0500	"	500	106	70-130
Sodium	525	0.0500	"	500	105	70-130

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BFF0465 - General Preparation

Duplicate (BFF0465-DUP1)

Source: 2206192-01

Prepared: 06/16/22 Analyzed: 06/17/22

% Solids	84.4	%	84.6	0.150	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFF0385 - General Preparation

Blank (BFF0385-BLK1)

Prepared & Analyzed: 06/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFF0385-BS1)

Prepared & Analyzed: 06/14/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BFF0385-DUP1)

Source: 2206191-01

Prepared & Analyzed: 06/14/22

Specific Conductance (EC) 0.478 0.0100 mmhos/cm 0.484 1.35 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BFF0386 - General Preparation

LCS (BFF0386-BS1)

Prepared & Analyzed: 06/14/22

pH	9.25	pH Units	9.18	101	95-105
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Duplicate (BFF0386-DUP1)

Source: 2205053-01

Prepared & Analyzed: 06/14/22

pH	7.89	pH Units	7.85	0.508	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
06/20/22 10:08

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 31, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Baker B02-05 FL

Work Order #2206227

Enclosed are the results of analyses for samples received by Summit Scientific on 06/14/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Ben Shrewsbury

Laboratory Manager



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@6-7'	2206227-01	Soil	06/14/22 09:25	06/14/22 15:00
BH01@13-15'	2206227-02	Soil	06/14/22 09:50	06/14/22 15:00
BH02@6-7'	2206227-03	Soil	06/14/22 12:10	06/14/22 15:00
BH02@13-15'	2206227-04	Soil	06/14/22 12:20	06/14/22 15:00
BH03@6-7'	2206227-05	Soil	06/14/22 11:15	06/14/22 15:00
BH03@13-15'	2206227-06	Soil	06/14/22 11:20	06/14/22 15:00
BH04@6-7'	2206227-07	Soil	06/14/22 10:50	06/14/22 15:00
BH04@13-15'	2206227-08	Soil	06/14/22 11:00	06/14/22 15:00
BH05@6-7'	2206227-09	Soil	06/14/22 10:20	06/14/22 15:00
BH05@13-15'	2206227-10	Soil	06/14/22 10:30	06/14/22 15:00
BH06@6-7'	2206227-11	Soil	06/14/22 11:40	06/14/22 15:00
BH06@13-15'	2206227-12	Soil	06/14/22 11:50	06/14/22 15:00
BG01@6'	2206227-13	Soil	06/14/22 12:30	06/14/22 15:00
BG02@6'	2206227-14	Soil	06/14/22 12:32	06/14/22 15:00
BG03@6'	2206227-15	Soil	06/14/22 12:34	06/14/22 15:00
BG04@6'	2206227-16	Soil	06/14/22 12:36	06/14/22 15:00
BG05@6'	2206227-17	Soil	06/14/22 12:38	06/14/22 15:00

Summit Scientific

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.

Summit Scientific

S₂

2206227.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 2

Client: Noble / Tasman Geosciences Project Manager: Jake Whritenour, Invoice: Erica Zuniga
Address: 6855 W. 119th Ave. E-Mail: jwhritenour@tasman-geo.com/ Noble Group
City/State/Zip: Broomfield / CO/ 80020
Phone: 303-827-1511 Project Name: Baker B02-05 FL
Sampler Name: Hunter Merlo Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 BTEX	VOC - 915	TPH - 915	PAH - 915	pH, EC, SAR	Boron - HWS	Metals - 915		
1	BH01 @ 6-7'	6/14/22	0925	2			X			X				X	X	X	X	X	X	X	
2	BH01 @ 13-15'		0950	2																	
3	BH02 @ 6-7'		1210	2																	
4	BH02 @ 13-15'		1220	2																	
5	BH03 @ 6-7'		1115	2																	
6	BH03 @ 13-15'		1120	2																	
7	BH04 @ 6-7'		1050	2																	
8	BH04 @ 13-15'		1100	2																	
9	BH05 @ 6-7'		1020	2																	
10	BH05 @ 13-15'	↓	1030	2			↓			↓				↓	↓	↓	↓	↓	↓	↓	

Relinquished by: HMM	Date/Time: 6/14/22 1430	Received by: Summit	Date/Time: 6/14/22 1430	Turn Around Time (Check) ___ Same Day ___ 24 hours <input checked="" type="checkbox"/> ___ 48 hours Sample Integrity: Temperature Upon Receipt: 5.9 Samples Intact: <input checked="" type="checkbox"/> Yes No	Notes:
Relinquished by: Summit	Date/Time: 6/14/22 1500	Received by:	Date/Time: 6/14/22 1500		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S_2

303-277-9310

Page 2 of 2

E-Mail: jwhritenour@tasman-geo.com/ Noble Group

Project Name: Baker 1302-05 FL

Project Number:

Relinquished by: <i>[Signature]</i>	Date/Time: 6/14/22 1430	Received by: <i>Summit</i> <i>[Signature]</i>	Date/Time: 6/14/22 1430	Turn Around Time (Check) ___ Same Day ___ 72 hours ___ 24 hours <u>X</u> Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: <u>59</u> Samples Intact: <u>(Yes)</u> No	Notes:
Relinquished by: <i>Summit</i>	Date/Time: 6/14/22 1500	Received by: <i>[Signature]</i>	Date/Time: 6/14/22 1500		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2206227

Client: Noble/TrasmanClient Project ID: Baker B02-05 FL

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

	-			
--	---	--	--	--

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

59

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

6/14/22

Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@6-7'
2206227-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFF0402	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.31	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.30	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.14	0.0050		"	"	"	"	"	"	
Naphthalene	0.0092	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.1	0.50		"	"	"	"	"	"	

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		161 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	200	50		mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		106 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@6-7'
2206227-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0162	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.145	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.143	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0759	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@6-7'
2206227-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.18	0.241	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	15.8	0.482	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	6.45	0.482	"	"	"	"	"	"
Lead	9.49	0.241	"	"	"	"	"	"
Nickel	8.46	0.482	"	"	"	"	"	"
Selenium	0.760	0.313	"	"	"	"	"	"
Silver	ND	0.0241	"	"	"	"	"	"
Zinc	41.1	0.482	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	187	0.0602	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	105	0.0602	"	"	"	"	"	"	
Sodium	38.5	0.0602	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.559	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@6-7'
2206227-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.555	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@13-15'
2206227-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		92.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@13-15'
2206227-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.138	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@13-15'
2206227-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	14.9	0.234	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	27.0	0.468	"	"	"	"	"	"
Cadmium	ND	0.234	"	"	"	"	"	"
Copper	12.4	0.468	"	"	"	"	"	"
Lead	12.7	0.234	"	"	"	"	"	"
Nickel	15.1	0.468	"	"	"	"	"	"
Selenium	1.25	0.304	"	"	"	"	"	"
Silver	0.0261	0.0234	"	"	"	"	"	"
Zinc	72.4	0.468	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	148	0.0585	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	59.5	0.0585	"	"	"	"	"	"	
Sodium	33.7	0.0585	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.592	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH01@13-15'
2206227-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.5	%	1	BFF0487	06/17/22	06/17/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.376	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH02@6-7'
2206227-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		91.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH02@6-7'
2206227-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0638	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH02@6-7'
2206227-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	12.7	0.245	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	24.3	0.490	"	"	"	"	"	"
Cadmium	ND	0.245	"	"	"	"	"	"
Copper	6.95	0.490	"	"	"	"	"	"
Lead	11.1	0.245	"	"	"	"	"	"
Nickel	12.8	0.490	"	"	"	"	"	"
Selenium	0.865	0.318	"	"	"	"	"	"
Silver	ND	0.0245	"	"	"	"	"	"
Zinc	47.8	0.490	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	734	0.0612	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	134	0.0612	"	"	"	"	"	"	
Sodium	52.7	0.0612	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.470	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH02@6-7'
2206227-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.518	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH02@13-15'

2206227-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		93.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH02@13-15'
2206227-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0691	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH02@13-15'
2206227-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.16	0.233	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	16.0	0.466	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	6.60	0.466	"	"	"	"	"	"
Lead	6.74	0.233	"	"	"	"	"	"
Nickel	8.17	0.466	"	"	"	"	"	"
Selenium	0.807	0.303	"	"	"	"	"	"
Silver	ND	0.0233	"	"	"	"	"	"
Zinc	38.3	0.466	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.3	0.0583	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	39.6	0.0583	"	"	"	"	"	"	
Sodium	43.9	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.975	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH02@13-15'
2206227-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.349	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH03@6-7'
2206227-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		94.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH03@6-7'
2206227-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0491	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH03@6-7'
2206227-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.26	0.244	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	17.4	0.489	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	8.59	0.489	"	"	"	"	"	"
Lead	7.11	0.244	"	"	"	"	"	"
Nickel	14.1	0.489	"	"	"	"	"	"
Selenium	0.937	0.318	"	"	"	"	"	"
Silver	ND	0.0244	"	"	"	"	"	"
Zinc	57.8	0.489	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	312	0.0611	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	106	0.0611	"	"	"	"	"	"	
Sodium	30.0	0.0611	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.374	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH03@6-7'
2206227-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.418	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH03@13-15'

2206227-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		90.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH03@13-15'
2206227-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0786	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH03@13-15'
2206227-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.58	0.237	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	19.5	0.474	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	5.90	0.474	"	"	"	"	"	"
Lead	6.59	0.237	"	"	"	"	"	"
Nickel	8.02	0.474	"	"	"	"	"	"
Selenium	0.781	0.308	"	"	"	"	"	"
Silver	ND	0.0237	"	"	"	"	"	"
Zinc	40.7	0.474	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	97.1	0.0592	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	41.9	0.0592	"	"	"	"	"	"	
Sodium	26.7	0.0592	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.570	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH03@13-15'

2206227-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.373	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH04@6-7'
2206227-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH04@6-7'
2206227-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0616	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH04@6-7'
2206227-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.93	0.245	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	34.4	0.491	"	"	"	"	"	"
Cadmium	ND	0.245	"	"	"	"	"	"
Copper	5.80	0.491	"	"	"	"	"	"
Lead	8.28	0.245	"	"	"	"	"	"
Nickel	12.2	0.491	"	"	"	"	"	"
Selenium	0.786	0.319	"	"	"	"	"	"
Silver	ND	0.0245	"	"	"	"	"	"
Zinc	40.7	0.491	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	272	0.0614	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	132	0.0614	"	"	"	"	"	"	
Sodium	41.1	0.0614	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.511	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH04@6-7'
2206227-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.5		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.496	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH04@13-15'

2206227-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH04@13-15'
2206227-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.123	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH04@13-15'
2206227-08 (Soil)

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Total Metals by EPA 6020B

Arsenic	7.88	0.236	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	15.1	0.471	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
Copper	6.96	0.471	"	"	"	"	"	"
Lead	7.79	0.236	"	"	"	"	"	"
Nickel	9.07	0.471	"	"	"	"	"	"
Selenium	0.845	0.306	"	"	"	"	"	"
Silver	ND	0.0236	"	"	"	"	"	"
Zinc	43.1	0.471	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	119	0.0589	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	65.5	0.0589	"	"	"	"	"	"	
Sodium	31.4	0.0589	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.574	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
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Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH04@13-15'
2206227-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.9			%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.407	0.0100		mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.76			pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

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Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH05@6-7'
2206227-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		94.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		90.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH05@6-7'
2206227-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0717	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH05@6-7'
2206227-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.33	0.242	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	29.8	0.484	"	"	"	"	"	"
Cadmium	ND	0.242	"	"	"	"	"	"
Copper	5.61	0.484	"	"	"	"	"	"
Lead	6.04	0.242	"	"	"	"	"	"
Nickel	8.51	0.484	"	"	"	"	"	"
Selenium	0.782	0.314	"	"	"	"	"	"
Silver	ND	0.0242	"	"	"	"	"	"
Zinc	31.7	0.484	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	166	0.0604	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	85.7	0.0604	"	"	"	"	"	"	
Sodium	35.8	0.0604	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.562	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH05@6-7'
2206227-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.434	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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6855 W. 119th Ave.
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Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH05@13-15'

2206227-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		91.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH05@13-15'
2206227-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0727	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH05@13-15'
2206227-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.68	0.239	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	10.7	0.478	"	"	"	"	"	"
Cadmium	ND	0.239	"	"	"	"	"	"
Copper	3.20	0.478	"	"	"	"	"	"
Lead	3.77	0.239	"	"	"	"	"	"
Nickel	5.26	0.478	"	"	"	"	"	"
Selenium	0.564	0.311	"	"	"	"	"	"
Silver	ND	0.0239	"	"	"	"	"	"
Zinc	24.7	0.478	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	114	0.0597	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	61.9	0.0597	"	"	"	"	"	"	
Sodium	102	0.0597	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.91	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH05@13-15'
2206227-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.366	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH06@6-7'
2206227-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH06@6-7'
2206227-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.232	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH06@6-7'
2206227-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.69	0.238	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	19.1	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	8.49	0.476	"	"	"	"	"	"
Lead	10.2	0.238	"	"	"	"	"	"
Nickel	13.3	0.476	"	"	"	"	"	"
Selenium	0.949	0.309	"	"	"	"	"	"
Silver	ND	0.0238	"	"	"	"	"	"
Zinc	53.5	0.476	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	123	0.0595	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	60.3	0.0595	"	"	"	"	"	"	
Sodium	45.4	0.0595	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.838	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH06@6-7'
2206227-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.77	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

BH06@13-15'

2206227-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFF0402	06/15/22	06/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0404	06/15/22	06/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH06@13-15'
2206227-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0406	06/15/22	06/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.177	0.0100	mg/L	1	BFF0458	06/16/22	06/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH06@13-15'
2206227-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.67	0.234	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B
Barium	14.4	0.469	"	"	"	"	"	"
Cadmium	ND	0.234	"	"	"	"	"	"
Copper	10.4	0.469	"	"	"	"	"	"
Lead	11.5	0.234	"	"	"	"	"	"
Nickel	9.55	0.469	"	"	"	"	"	"
Selenium	0.954	0.305	"	"	"	"	"	"
Silver	0.0254	0.0234	"	"	"	"	"	"
Zinc	52.1	0.469	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0512	06/20/22	06/20/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	154	0.0586	mg/L dry	1	BFF0400	06/15/22	06/18/22	EPA 6020B	
Magnesium	82.3	0.0586	"	"	"	"	"	"	
Sodium	107	0.0586	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.73	0.00100	units	1	BFF0508	06/20/22	06/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BH06@13-15'
2206227-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.3	%	1	BFF0487	06/17/22	06/17/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	0.0100	mmhos/cm	1	BFF0409	06/15/22	06/16/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BFF0408	06/15/22	06/16/22	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BG01@6'
2206227-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/14/22 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	9.52	0.200	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B	
Barium	24.3	0.400	"	"	"	"	"	"	
Lead	9.20	0.200	"	"	"	"	"	"	
Selenium	0.978	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.2		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.69		pH Units	1	BFH0613	08/29/22	08/29/22	EPA 9045D	I-02

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BG02@6'
2206227-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/14/22 12:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.76	0.200	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B	
Barium	73.8	0.400	"	"	"	"	"	"	
Lead	6.95	0.200	"	"	"	"	"	"	
Selenium	0.817	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 12:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.5		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 12:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.83		pH Units	1	BFH0613	08/29/22	08/29/22	EPA 9045D	I-02

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BG03@6'
2206227-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/14/22 12:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.94	0.200	mg/kg dry	1	BFF0411	06/15/22	06/18/22	EPA 6020B	
Barium	61.2	0.400	"	"	"	"	"	"	
Lead	8.82	0.200	"	"	"	"	"	"	
Selenium	0.790	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 12:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.3		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 12:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.00		pH Units	1	BFH0613	08/29/22	08/29/22	EPA 9045D	I-02

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Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BG04@6'
2206227-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/14/22 12:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.23	0.200	mg/kg dry	1	BFF0411	06/15/22	06/19/22	EPA 6020B	
Barium	69.3	0.400	"	"	"	"	"	"	
Lead	6.28	0.200	"	"	"	"	"	"	
Selenium	0.685	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 12:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.7		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 12:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.93		pH Units	1	BFH0613	08/29/22	08/29/22	EPA 9045D	I-02

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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

BG05@6'
2206227-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/14/22 12:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.44	0.200	mg/kg dry	1	BFF0411	06/15/22	06/19/22	EPA 6020B	
Barium	146	0.400	"	"	"	"	"	"	
Lead	8.11	0.200	"	"	"	"	"	"	
Selenium	0.788	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/14/22 12:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.4		%	1	BFF0487	06/17/22	06/17/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/14/22 12:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.09		pH Units	1	BFH0613	08/29/22	08/29/22	EPA 9045D	I-02

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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFF0402 - EPA 5030 Soil MS

Blank (BFF0402-BLK1)

Prepared & Analyzed: 06/15/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.0	50-150			
Surrogate: Toluene-d8	0.0369		"	0.0400		92.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0400		91.4	50-150			

LCS (BFF0402-BS1)

Prepared & Analyzed: 06/15/22

Benzene	0.0728	0.0020	mg/kg	0.0750		97.0	70-130			
Toluene	0.0744	0.0050	"	0.0750		99.2	70-130			
Ethylbenzene	0.0732	0.0050	"	0.0750		97.6	70-130			
m,p-Xylene	0.154	0.010	"	0.150		103	70-130			
o-Xylene	0.0772	0.0050	"	0.0750		103	70-130			
1,2,4-Trimethylbenzene	0.0733	0.0050	"	0.0750		97.7	70-130			
1,3,5-Trimethylbenzene	0.0746	0.0050	"	0.0750		99.4	70-130			
Naphthalene	0.0637	0.0038	"	0.0750		85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.6	50-150			
Surrogate: Toluene-d8	0.0372		"	0.0400		92.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

Matrix Spike (BFF0402-MS1)

Source: 2206188-01

Prepared & Analyzed: 06/15/22

Benzene	0.0734	0.0020	mg/kg	0.0750	ND	97.9	70-130			
Toluene	0.0756	0.0050	"	0.0750	ND	101	70-130			
Ethylbenzene	0.0713	0.0050	"	0.0750	ND	95.1	70-130			
m,p-Xylene	0.153	0.010	"	0.150	ND	102	70-130			
o-Xylene	0.0773	0.0050	"	0.0750	ND	103	70-130			
1,2,4-Trimethylbenzene	0.0754	0.0050	"	0.0750	0.00219	97.7	70-130			
1,3,5-Trimethylbenzene	0.0754	0.0050	"	0.0750	0.00177	98.2	70-130			
Naphthalene	0.0794	0.0038	"	0.0750	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150			

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Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFF0402 - EPA 5030 Soil MS

Matrix Spike Dup (BFF0402-MSD1)

Source: 2206188-01

Prepared & Analyzed: 06/15/22

Benzene	0.0747	0.0020	mg/kg	0.0750	ND	99.6	70-130	1.74	30	
Toluene	0.0760	0.0050	"	0.0750	ND	101	70-130	0.514	30	
Ethylbenzene	0.0725	0.0050	"	0.0750	ND	96.7	70-130	1.67	30	
m,p-Xylene	0.153	0.010	"	0.150	ND	102	70-130	0.118	30	
o-Xylene	0.0777	0.0050	"	0.0750	ND	104	70-130	0.503	30	
1,2,4-Trimethylbenzene	0.0752	0.0050	"	0.0750	0.00219	97.4	70-130	0.319	30	
1,3,5-Trimethylbenzene	0.0746	0.0050	"	0.0750	0.00177	97.1	70-130	1.08	30	
Naphthalene	0.0800	0.0038	"	0.0750	ND	107	70-130	0.715	30	
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0376		"	0.0400		93.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFF0404 - EPA 3550A

Blank (BFF0404-BLK1)

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFF0404-BS1)

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	419	50	mg/kg	500	83.8	70-130
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Matrix Spike (BFF0404-MS1)

Source: 2206188-01

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	399	50	mg/kg	500	22.9	75.2	70-130
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Matrix Spike Dup (BFF0404-MSD1)

Source: 2206188-01

Prepared & Analyzed: 06/15/22

C10-C28 (DRO)	389	50	mg/kg	500	22.9	73.2	70-130	2.53	20
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFF0406 - EPA 5030 Soil MS

Blank (BFF0406-BLK1)

Prepared & Analyzed: 06/15/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0213		"	0.0333		63.9	40-150			
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.5	40-150			

LCS (BFF0406-BS1)

Prepared & Analyzed: 06/15/22

Acenaphthene	0.0383	0.00500	mg/kg	0.0333		115	31-137			
Anthracene	0.0245	0.00500	"	0.0333		73.4	30-120			
Benzo (a) anthracene	0.0225	0.00500	"	0.0333		67.4	30-120			
Benzo (a) pyrene	0.0229	0.00500	"	0.0333		68.6	30-120			
Benzo (b) fluoranthene	0.0238	0.00500	"	0.0333		71.3	30-120			
Benzo (k) fluoranthene	0.0263	0.00500	"	0.0333		78.9	30-120			
Chrysene	0.0242	0.00500	"	0.0333		72.5	30-120			
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333		54.4	30-120			
Fluoranthene	0.0260	0.00500	"	0.0333		77.9	30-120			
Fluorene	0.0364	0.00500	"	0.0333		109	30-120			
Indeno (1,2,3-cd) pyrene	0.0188	0.00500	"	0.0333		56.5	30-120			
Pyrene	0.0260	0.00500	"	0.0333		77.9	35-142			
1-Methylnaphthalene	0.0249	0.00500	"	0.0333		74.6	35-142			
2-Methylnaphthalene	0.0276	0.00500	"	0.0333		82.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0248		"	0.0333		74.5	40-150			
Surrogate: Fluoranthene-d10	0.0258		"	0.0333		77.3	40-150			

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Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFF0406 - EPA 5030 Soil MS

Matrix Spike (BFF0406-MS1)

Source: 2206174-01

Prepared & Analyzed: 06/15/22

Acenaphthene	0.0348	0.00500	mg/kg	0.0333	ND	104	31-137				
Anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120				
Benzo (a) anthracene	0.0203	0.00500	"	0.0333	ND	60.8	30-120				
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	30-120				
Benzo (b) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.5	30-120				
Benzo (k) fluoranthene	0.0244	0.00500	"	0.0333	ND	73.2	30-120				
Chrysene	0.0217	0.00500	"	0.0333	ND	65.1	30-120				
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120				
Fluoranthene	0.0276	0.00500	"	0.0333	ND	82.7	30-120				
Fluorene	0.0306	0.00500	"	0.0333	ND	91.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120				
Pyrene	0.0267	0.00500	"	0.0333	ND	80.0	35-142				
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	15-130				
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0187		"	0.0333		56.2	40-150				
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.7	40-150				

Matrix Spike Dup (BFF0406-MSD1)

Source: 2206174-01

Prepared & Analyzed: 06/15/22

Acenaphthene	0.0290	0.00500	mg/kg	0.0333	ND	87.1	31-137	18.1	30
Anthracene	0.0206	0.00500	"	0.0333	ND	61.7	30-120	4.42	30
Benzo (a) anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	6.33	30
Benzo (a) pyrene	0.0215	0.00500	"	0.0333	ND	64.6	30-120	0.516	30
Benzo (b) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.8	30-120	5.65	30
Benzo (k) fluoranthene	0.0270	0.00500	"	0.0333	ND	81.1	30-120	10.3	30
Chrysene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	4.58	30
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	16.9	30
Fluoranthene	0.0207	0.00500	"	0.0333	ND	62.0	30-120	28.7	30
Fluorene	0.0309	0.00500	"	0.0333	ND	92.8	30-120	0.975	30
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	0.508	30
Pyrene	0.0220	0.00500	"	0.0333	ND	66.0	35-142	19.2	30
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.9	15-130	0.175	50
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130	0.0313	50
Surrogate: 2-Methylnaphthalene-d10	0.0190		"	0.0333		57.0	40-150		
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.3	40-150		

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFF0458 - EPA 3050B

Blank (BFF0458-BLK1)

Prepared: 06/16/22 Analyzed: 06/18/22

Boron ND 0.0100 mg/L

LCS (BFF0458-BS1)

Prepared: 06/16/22 Analyzed: 06/18/22

Boron 5.73 0.0100 mg/L 5.00 115 80-120

Duplicate (BFF0458-DUP1)

Source: 2206227-01

Prepared: 06/16/22 Analyzed: 06/18/22

Boron 0.0701 0.0100 mg/L 0.0759 7.96 20

Matrix Spike (BFF0458-MS1)

Source: 2206227-01

Prepared: 06/16/22 Analyzed: 06/18/22

Boron 5.66 0.0100 mg/L 5.00 0.0759 112 75-125

Matrix Spike Dup (BFF0458-MSD1)

Source: 2206227-01

Prepared: 06/16/22 Analyzed: 06/18/22

Boron 5.68 0.0100 mg/L 5.00 0.0759 112 75-125 0.406 25

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Tasman Geosciences
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Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFF0411 - EPA 3050B

Blank (BFF0411-BLK1)

Prepared: 06/15/22 Analyzed: 06/18/22

Arsenic	ND	0.200	mg/kg wet
Arsenic	ND	0.200	"
Barium	ND	0.400	"
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFF0411-BS1)

Prepared: 06/15/22 Analyzed: 06/18/22

Arsenic	46.6	0.200	mg/kg wet	40.0	116	80-120
Arsenic	46.6	0.200	"	40.0	116	80-120
Barium	44.8	0.400	"	40.0	112	80-120
Barium	44.8	0.400	"	40.0	112	80-120
Cadmium	2.16	0.200	"	2.00	108	80-120
Copper	46.3	0.400	"	40.0	116	80-120
Lead	21.0	0.200	"	20.0	105	80-120
Lead	21.0	0.200	"	20.0	105	80-120
Nickel	44.0	0.400	"	40.0	110	80-120
Selenium	4.42	0.260	"	4.00	110	80-120
Selenium	4.42	0.260	"	4.00	110	80-120
Silver	2.08	0.0200	"	2.00	104	80-120
Zinc	46.9	0.400	"	40.0	117	80-120

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFF0411 - EPA 3050B

Duplicate (BFF0411-DUP1)		Source: 2206227-01			Prepared: 06/15/22 Analyzed: 06/18/22					
Arsenic	2.91	0.200	mg/kg dry		3.18			9.06	20	
Arsenic	2.91	0.241	"		3.18			9.06	20	
Barium	27.7	0.400	"		15.8			54.7	20	QR-03
Barium	18.1	0.482	"		15.8			13.4	20	
Cadmium	0.0444	0.241	"		0.0414			6.94	20	
Copper	7.05	0.482	"		6.45			8.86	20	
Lead	8.81	0.241	"		9.49			7.38	20	
Lead	8.81	0.200	"		9.49			7.38	20	
Nickel	7.91	0.482	"		8.46			6.72	20	
Selenium	0.773	0.313	"		0.760			1.75	20	
Selenium	0.773	0.260	"		0.760			1.75	20	
Silver	0.0149	0.0241	"		0.0128			15.3	20	
Zinc	42.1	0.482	"		41.1			2.56	20	

Matrix Spike (BFF0411-MS1)		Source: 2206227-01			Prepared: 06/15/22 Analyzed: 06/18/22					
Arsenic	56.1	0.200	mg/kg dry	48.2	3.18	110	75-125			
Arsenic	56.1	0.241	"	48.2	3.18	110	75-125			
Barium	70.9	0.482	"	48.2	15.8	114	75-125			
Barium	70.9	0.400	"	48.2	15.8	114	75-125			
Cadmium	2.51	0.241	"	2.41	0.0414	102	75-125			
Copper	60.3	0.482	"	48.2	6.45	112	75-125			
Lead	32.5	0.200	"	24.1	9.49	95.5	75-125			
Lead	32.5	0.241	"	24.1	9.49	95.5	75-125			
Nickel	58.2	0.482	"	48.2	8.46	103	75-125			
Selenium	4.38	0.313	"	4.82	0.760	75.1	75-125			
Selenium	4.38	0.260	"	4.82	0.760	75.1	75-125			
Silver	2.19	0.0241	"	2.41	0.0128	90.5	75-125			
Zinc	101	0.482	"	48.2	41.1	123	75-125			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFF0411 - EPA 3050B

Matrix Spike Dup (BFF0411-MSD1)		Source: 2206227-01			Prepared: 06/15/22 Analyzed: 06/18/22					
Arsenic	56.0	0.200	mg/kg dry	48.2	3.18	110	75-125	0.184	25	
Arsenic	56.0	0.241	"	48.2	3.18	110	75-125	0.184	25	
Barium	65.0	0.482	"	48.2	15.8	102	75-125	8.69	25	
Barium	65.0	0.400	"	48.2	15.8	102	75-125	8.69	25	
Cadmium	2.33	0.241	"	2.41	0.0414	94.9	75-125	7.38	25	
Copper	58.2	0.482	"	48.2	6.45	107	75-125	3.42	25	
Lead	28.6	0.200	"	24.1	9.49	79.4	75-125	12.7	25	
Lead	28.6	0.241	"	24.1	9.49	79.4	75-125	12.7	25	
Nickel	57.2	0.482	"	48.2	8.46	101	75-125	1.75	25	
Selenium	4.69	0.260	"	4.82	0.760	81.5	75-125	6.80	25	
Selenium	4.69	0.313	"	4.82	0.760	81.5	75-125	6.80	25	
Silver	2.10	0.0241	"	2.41	0.0128	86.4	75-125	4.57	25	
Zinc	101	0.482	"	48.2	41.1	124	75-125	0.184	25	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFF0512 - 3060A Mod

Blank (BFF0512-BLK1)

Prepared & Analyzed: 06/20/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFF0512-BS1)

Prepared & Analyzed: 06/20/22

Chromium, Hexavalent 29.2 0.30 mg/kg wet 25.0 117 80-120

Duplicate (BFF0512-DUP1)

Source: 2206227-01

Prepared & Analyzed: 06/20/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFF0512-MS1)

Source: 2206227-01

Prepared & Analyzed: 06/20/22

Chromium, Hexavalent 35.9 0.30 mg/kg dry 30.1 ND 119 75-125

Matrix Spike Dup (BFF0512-MSD1)

Source: 2206227-01

Prepared & Analyzed: 06/20/22

Chromium, Hexavalent 36.3 0.30 mg/kg dry 30.1 ND 120 75-125 1.00 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFF0400 - General Preparation

Blank (BFF0400-BLK1)

Prepared: 06/15/22 Analyzed: 06/18/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFF0400-BS1)

Prepared: 06/15/22 Analyzed: 06/18/22

Calcium	564	0.0500	mg/L wet	500	113	70-130
Magnesium	578	0.0500	"	500	116	70-130
Sodium	525	0.0500	"	500	105	70-130

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BFF0487 - General Preparation

Duplicate (BFF0487-DUP1)

Source: 2205266-06

Prepared & Analyzed: 06/17/22

% Solids	84.8	%	84.3	0.604	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]

Project Manager: Jacob Whritenour

Reported:

08/31/22 08:35

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFF0409 - General Preparation

Blank (BFF0409-BLK1)

Prepared: 06/15/22 Analyzed: 06/16/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFF0409-BS1)

Prepared: 06/15/22 Analyzed: 06/16/22

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.1 95-105

Duplicate (BFF0409-DUP1)

Source: 2206225-01

Prepared: 06/15/22 Analyzed: 06/16/22

Specific Conductance (EC) 0.682 0.0100 mmhos/cm 0.694 1.76 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BFF0408 - General Preparation

LCS (BFF0408-BS1)

Prepared: 06/15/22 Analyzed: 06/16/22

pH	9.23		pH Units	9.18		101	95-105		
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Duplicate (BFF0408-DUP1)

Source: 2206225-01

Prepared: 06/15/22 Analyzed: 06/16/22

pH	8.37		pH Units		8.38			0.119	20
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Batch BFH0613 - General Preparation

LCS (BFH0613-BS1)

Prepared & Analyzed: 08/29/22

pH	9.01		pH Units	9.18		98.1	95-105		
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Duplicate (BFH0613-DUP1)

Source: 2206227-13

Prepared & Analyzed: 08/29/22

pH	7.69		pH Units		7.69			0.00	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Baker B02-05 FL

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/31/22 08:35

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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.
I-02	This sample was analyzed outside of the recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ATTACHMENT B
BORING LOGS



TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Noble

LOGGED BY: Hunter Merlo

PROJECT MANAGER: Jake Whritenour

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: Hand Auger & PowerProbe

DRILL BIT SIZE (INCHES): 2.25"

DATE STARTED - COMPLETED: 06/13/22 - 06/14/22

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH TO WATER (FT. BGS): 5'

Baker B02-05 Flowline

BORING / WELL ID: BH01

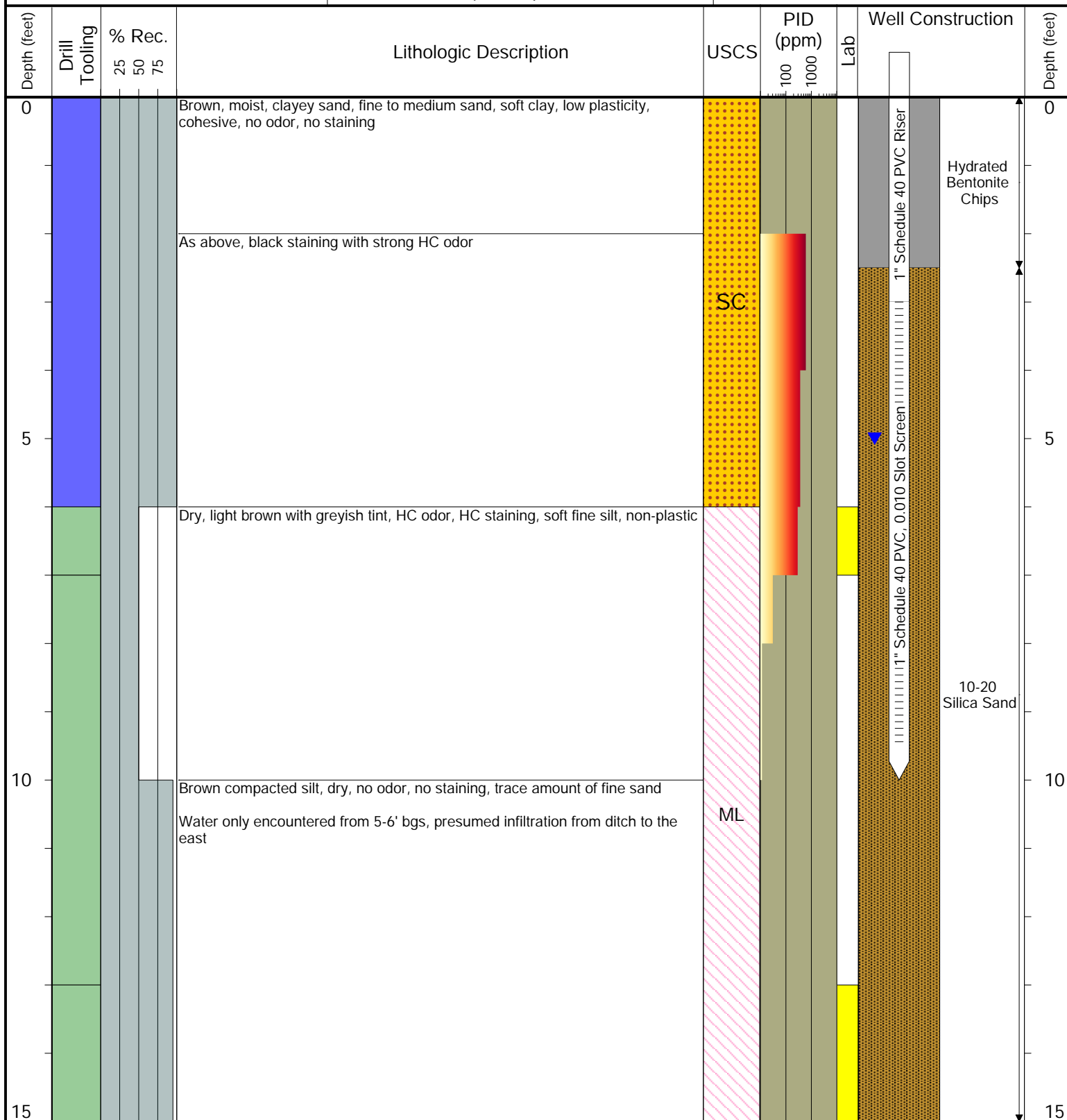
LOCATION: Weld County, Colorado

LATITUDE (WGS 84): 40.43371023530

LONGITUDE (WGS 84): -104.52216525800

CASING ELEVATION (FT. AMSL): 4618.589

GROUND ELEVATION (FT. AMSL): 4618.539



Drilling / Sample Method:

Macro-Core

Hollow Stem Auger

Solid Stem Auger

Hand Auger

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab

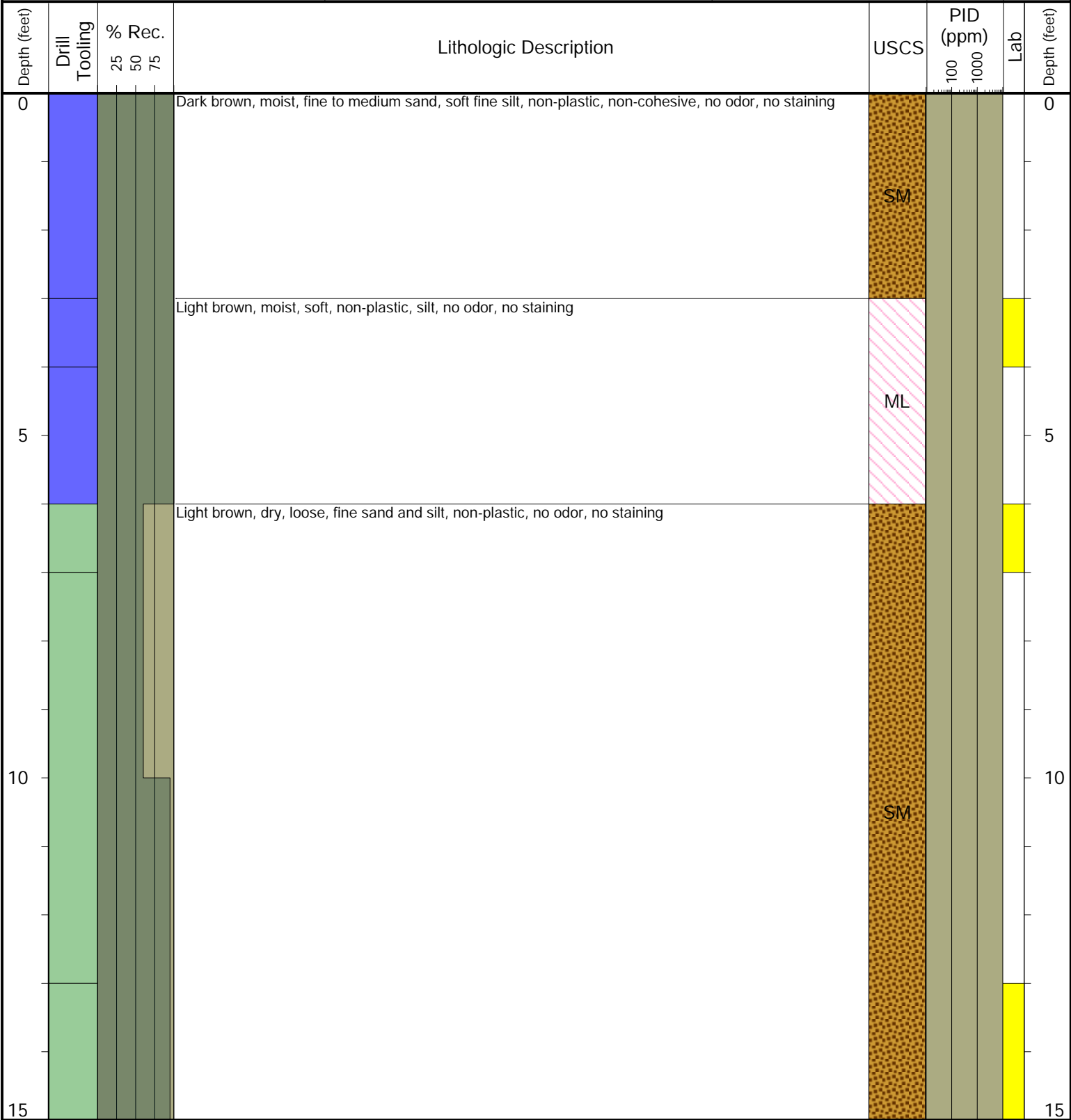


 Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Noble	Baker B02-05 Flowline
LOGGED BY: Hunter Merlo	
PROJECT MANAGER: Jake Whritenour	BORING ID: BH03
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger & PowerProbe	LOCATION: Weld County, Colorado
DRILL BIT SIZE (INCHES): 2.25"	LATITUDE (WGS 84): 40.433725153724
DATE STARTED - COMPLETED: 06/13/22 - 06/14/22	LONGITUDE (WGS 84): -104.52213582949
TOTAL WELL DEPTH (FT. BGS): 15	GROUND ELEVATION (FT. AMSL): NM
DEPTH WATER ENCOUNTERED (FT. BGS): NM	ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

Hand Auger

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Noble

LOGGED BY: Hunter Merlo

PROJECT MANAGER: Jake Whritenour

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: Hand Auger & PowerProbe

DRILL BIT SIZE (INCHES): 2.25"

DATE STARTED - COMPLETED: 06/13/22 - 06/14/22

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH WATER ENCOUNTERED (FT. BGS): NM

Baker B02-05 Flowline

BORING ID: BH04

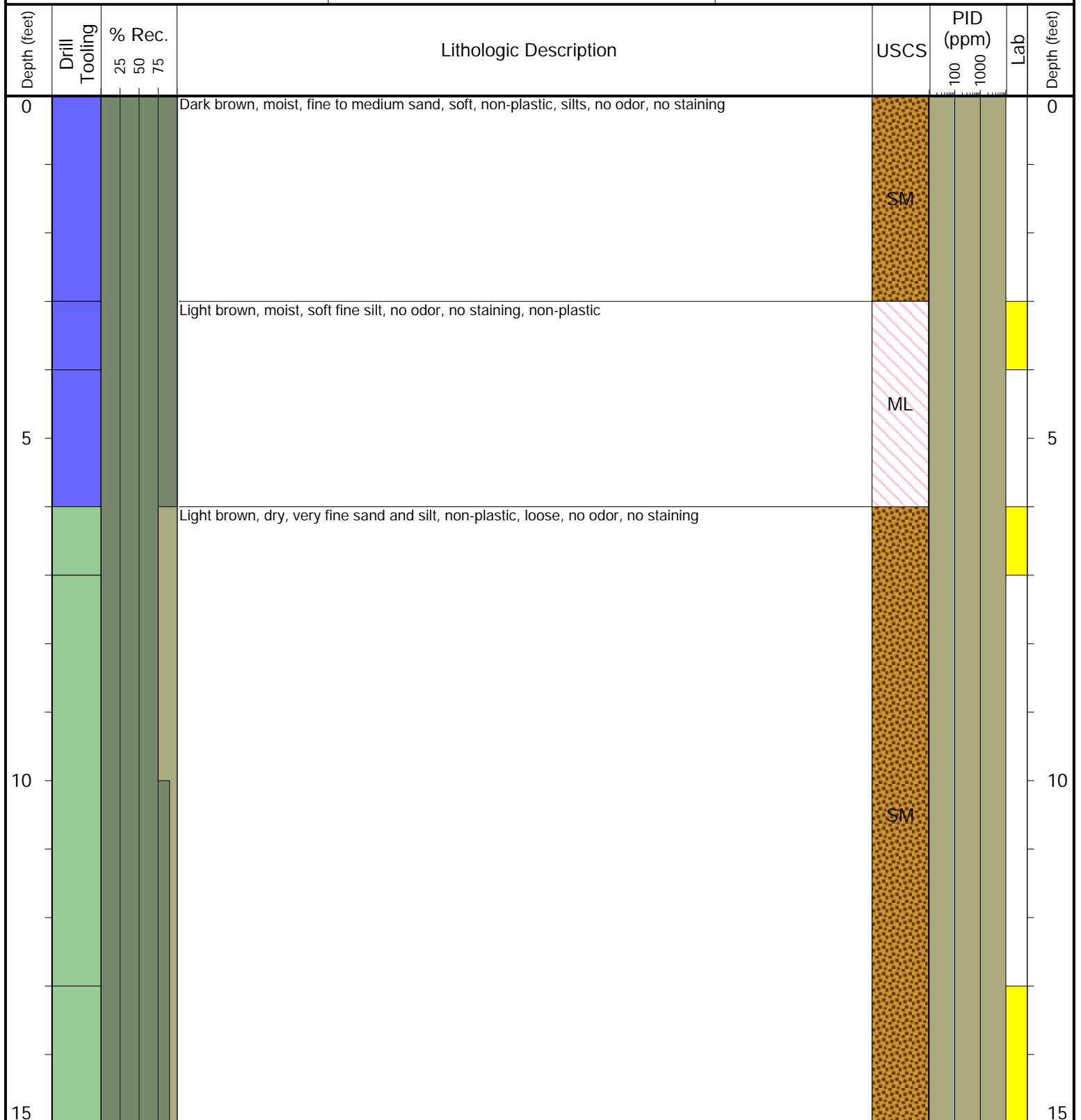
LOCATION: Weld County, Colorado

LATITUDE (WGS 84): 40.433653592187

LONGITUDE (WGS 84): -104.52212542035

GROUND ELEVATION (FT. AMSL): NM

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

Hand Auger

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

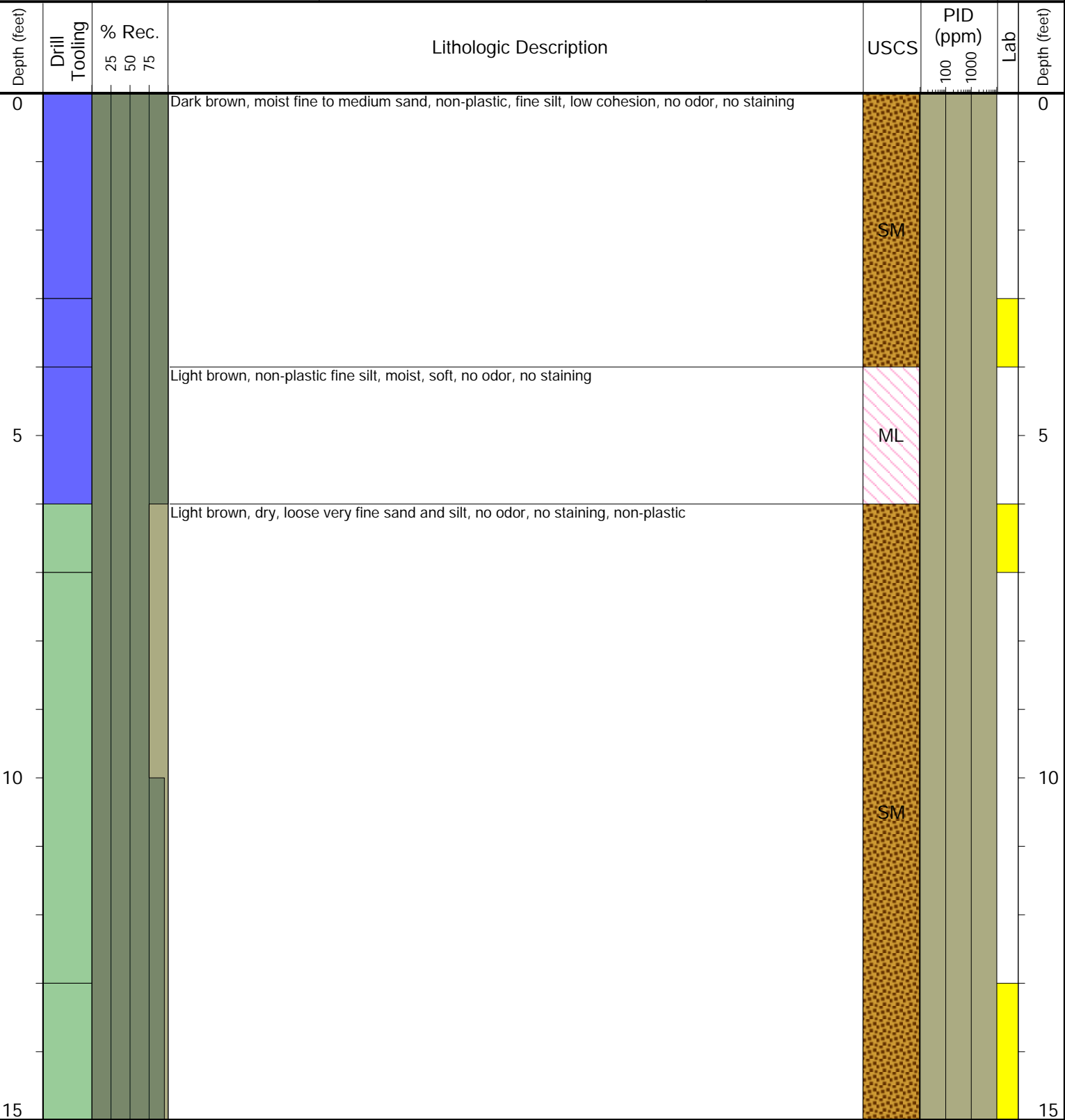
Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Noble	Baker B02-05 Flowline
LOGGED BY: Hunter Merlo	
PROJECT MANAGER: Jake Whritenour	BORING ID: BH05
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger & PowerProbe	LOCATION: Weld County, Colorado
DRILL BIT SIZE (INCHES): 2.25"	LATITUDE (WGS 84): 40.433617969814
DATE STARTED - COMPLETED: 06/13/22 - 06/14/22	LONGITUDE (WGS 84): -104.52214876828
TOTAL WELL DEPTH (FT. BGS): 15	GROUND ELEVATION (FT. AMSL): NM
DEPTH WATER ENCOUNTERED (FT. BGS): NM	ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:		Laboratory Sample Types:	
Macro-Core	Perforated Injection Tool	Geotechnical Lab	Geotechnical & Analytical Chemistry Lab
Expendable Well Tip	Hand Auger	Analytical Chemistry Lab	



TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Noble

LOGGED BY: Hunter Merlo

PROJECT MANAGER: Jake Whritenour

DRILLING CONTRACTOR: Tasman

DRILLING EQUIPMENT: Hand Auger & PowerProbe

DRILL BIT SIZE (INCHES): 2.25"

DATE STARTED - COMPLETED: 06/13/22 - 06/14/22

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH WATER ENCOUNTERED (FT. BGS): NM

Baker B02-05 Flowline

BORING ID: BH06

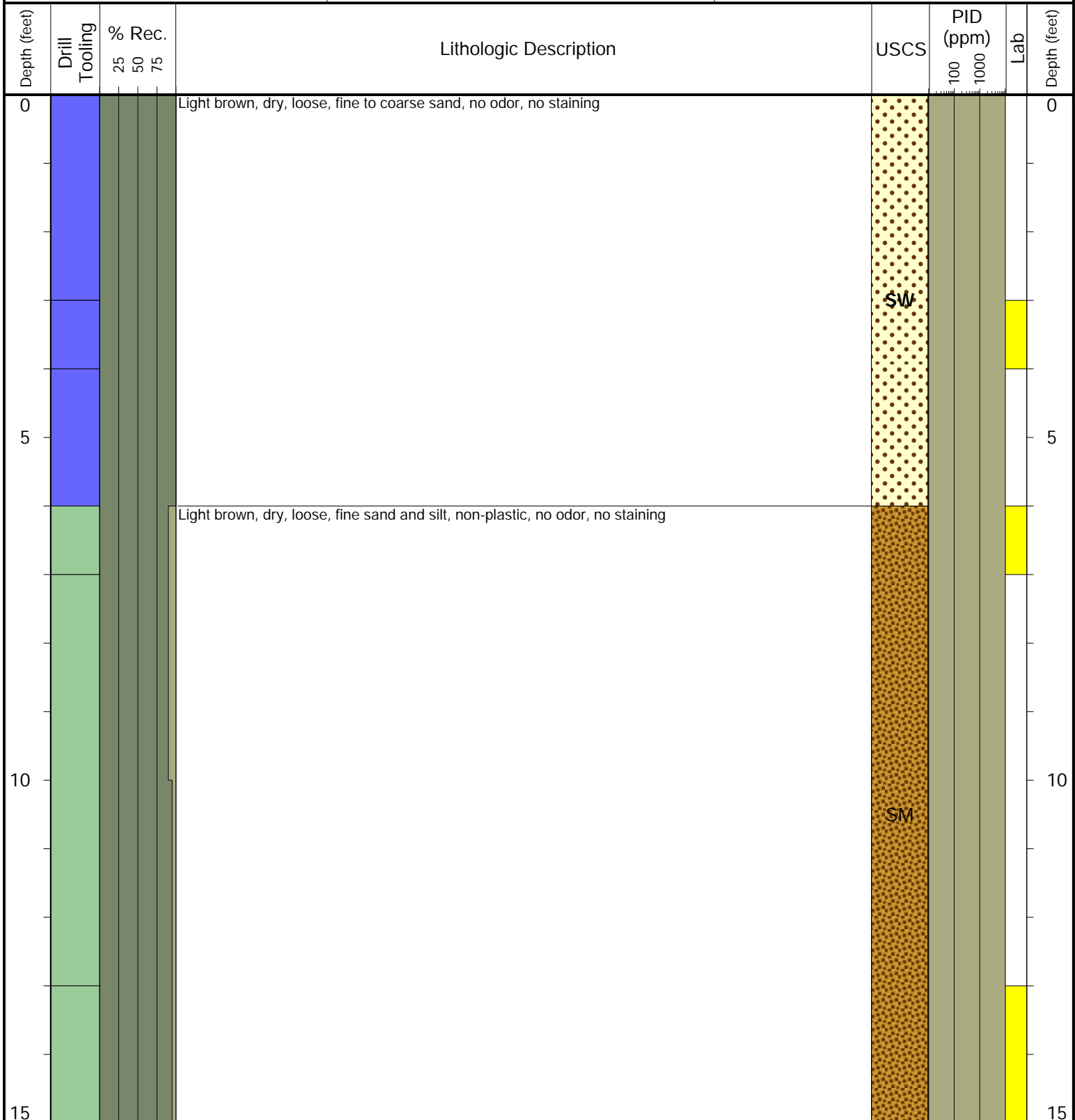
LOCATION: Weld County, Colorado

LATITUDE (WGS 84): 40.433705732405

LONGITUDE (WGS 84): -104.52225824921

GROUND ELEVATION (FT. AMSL): NM

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

Macro-Core

Expendable Well Tip

Perforated Injection Tool

Hand Auger

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab