EXCAVATION AND SOIL MIXING SUMMARY REPORT

BIERIG 1-26

COGCC SPILL TRACKING # 455230
COGCC REMEDIATION # 11603

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1.0 INTRODUCTION

This Excavation and Soil Mixing Report (Report) presents the results of assessment, remediation, and confirmation sampling activities performed at the Bierig 1-26 site (Site). Field activities were performed by Tasman Geosciences, Inc. (Tasman) between May 18, 2018 and January 10, 2019, on behalf of Noble Energy, Inc. (Noble). The activities described in this Report were conducted to assess and treat petroleum hydrocarbon impacts at the Site.

1.1 Facility Background

The Site is located within the city limits of Evans in Weld County, Colorado, as shown on Figure 1. The Site is surrounded by crop land, and the legal description is the northeast ¼ of the northeast ¼ of Section 26, Township 5 North, Range 66 West, of the 6th Principal Meridian. The Site is located on terrain that slopes gradually to the Southwest. The Site is approximately 0.3 miles south of 37th Street in Evans, Colorado and has coordinates of 40.373436°, -104.742267°.

Initial excavation activities were conducted at the Site on May 18, 2018. On May 26, 2018, historic impacts were confirmed beneath the Bierig 1-26 separator during reclamation activities. The approximate release location in shown on Figure 2. A Form 19 was submitted to the Colorado Oil and Gas Conservation Commission (COGCC) on May 27, 2018. The COGCC subsequently issued Spill/Release Point ID Number 455230 for this event. Initial sampling activities are documented in the Excavation Summary Report (Doc #401710296) submitted to the COGCC on July 23, 2018 with the Form 27 Remediation Work Plan. The COGCC assigned remediation project number 11603 to the Site on July 27, 2018.

1.2 Site Topography, Geology, and Hydrogeology

The Site is situated approximately 4,800 feet above mean sea level (ft. amsl). The surface topography generally slopes toward the southwest. Soil borings and excavation soil sampling indicate that the subsurface geology immediately beneath the Site is composed of poorly graded sand in the northern portion of the Site and a mixture of poorly graded sand with caliche atop a sandy clay in the southern portion of the Site.

Shallow groundwater has been encountered at approximately 4 to 12 ft. below ground surface (bgs) during previous excavation and assessment activities at the Site, depending on surface topography and seasonal fluctuations in groundwater elevation. Historical groundwater elevation data indicates that the potentiometric surface at the Site generally flows toward the south-southwest.

2.0 SITE ASSESSMENT

Tasman was retained by Noble Energy, Inc. on May 18, 2018, to investigate impacted material found during reclamation activities. Various subsurface investigative procedures (test pitting, hand augering and direct push drilling) were used to assess the extent and depth of impacts at the Site between May 18 and October 26, 2018.

2.1 Excavation Field Activities

Following the discovery of suspected impacted media during reclamation activities, a limited excavation was completed on May 18, 2018, to determine the extent of impacts. Excavation activities were guided in the field through the use of a photoionization detector (PID) and standard headspace soil screening techniques. Visually impacted soils from the former Bierig 1-26 separator location were excavated and transported off-Site for disposal at the Waste Management Landfill in Ault, Colorado under signed Noble waste manifests. A total of approximately 50 cubic yards of impacted material were removed from the Site for disposal. Based on PID readings collected from excavation soil screening samples, four test pits were completed around the outside of the excavation to approximately 10 ft. below ground surface (bgs.) to further assess potential subsurface impacts.

During excavation activities, soil samples were collected from nine locations (SS01@10' and SS03@5' through SS10@5') along the sidewalls of the excavation and test pits between approximately 4 ft. and 10 ft. bgs. Soil samples were submitted to Summit Scientific Laboratory in Golden, Colorado (Summit) for laboratory analysis of benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) using United States Environmental Protection Agency (USEPA) Method 8260B, as well as total petroleum hydrocarbons-diesel range organics (DRO) using USEPA Method 8015. Soil analytical data is summarized in Table 1, excavation extent and soil sample locations are illustrated on Figure 2. The laboratory analytical report is included as Attachment A. After sampling activities were completed, the excavation was backfilled with imported clean fill. Groundwater was not encountered during initial excavation activities.

2.2 Soil and Groundwater Site Assessment

Based on soil impacts detected in samples SS01@10' and SS06@10', Tasman returned to the Site to further assess the extent of impacts between July 25 and October 26, 2018 using test pit, hand auger and soil boring sampling techniques. Field observations and soil analytical results collected during hand auger and test pit assessments were used to develop the proposed area for excavation and soil treatment.

2.2.1 Test Pit Assessment

Tasman, along with 4X Industrial, returned to the site on July 25, 2018 to begin the test pit assessment. A total of fourteen test pits were completed from 4 to 13 ft. bgs. All samples were

field screened for VOCs with a PID using standard headspace soil sampling techniques. Sixteen samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil impacts above COGCC Table 910-1 soil standards were detected at TP01, TP02, TP03, TP04, TP08, TP09 and TP10. Soil analytical data is summarized in Table 1 and test pit locations are illustrated on Figure 3. The laboratory report is included as Attachment A.

2.2.2 Hand Auger Sample Collection

On August 1, 2018, Tasman completed additional site assessment sampling using hand auger sampling techniques. A total of sixteen locations (HA SS01@5' through HA SS16@4') were completed from 3 ft. bgs. through 10 ft. bgs. Samples were field screened for VOCs with a PID and standard headspace soil sampling techniques were used. Sixteen samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil impacts above COGCC Table 910-1 soil standards were detected at HA SS09, HA SS11 and HA SS16. Soil analytical data is summarized in Table 1 and hand auger locations are illustrated on Figure 3. The laboratory report is included as Attachment A.

2.2.3 Groundwater Sample Collection

On October 1, 2018, eight boreholes were installed using direct push drilling techniques and converted to temporary monitoring wells (BH01 – BH08) to evaluate potential impacts to groundwater. Monitoring wells were gauged, developed and sampled using dedicated, disposable, polyethylene bailers. Groundwater samples were submitted to Summit for laboratory analysis of BTEX using USEPA method 8260B. Temporary wells were removed following groundwater sampling activities and the borings were backfilled. Groundwater analytical results are summarized in Table 2 and well locations are illustrated on Figure 3. The laboratory report is included as Attachment A.

2.2.4 Continued Test Pit Assessment

Based on site observations and analytical data collected during assessment activities, Tasman outlined an area for excavation and soil treatment. To confirm the outlined treatment area, three test pits were completed on October 22, 2018. These test pits were completed in the southwest corner, south-center and southeast corner within the outlined area. An approximately three to four-foot layer of black and gray staining was observed along the southern test pit sidewalls as well as staining along the bases. A perched interval of groundwater was observed in the test pits from approximately four to nine ft. bgs. Soil sample, SS17@9.5' was collected from the center test pit to confirm the depth of impacts. Soil sample SS17@9.5' was submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Laboratory analytical results for SS17@9.5' indicated petroleum hydrocarbon impacts did not extend deeper than 9.5 ft. bgs. in that area. However, to further determine the lateral extents of impacts to the south, another round of test pits were completed. Material excavated was stockpiled on-site for later treatment.

2.2.5 Continued Test Pit and Hand Auger Assessment

A total of eight soil borings (HA01 through HA07) were completed from 2.5 ft. bgs. to 5 ft. bgs. using a hand auger. Eight soil samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil impacts above COGCC Table 910-1 soil standards were not present in any of the samples. Soil analytical data is summarized in Table 1 and the hand auger locations are illustrated on Figure 3. The laboratory report is included in Attachment A.

During hand auger assessment groundwater was encountered in the southwest corner of the Site. Groundwater samples were collected from four boring locations (HA01 through HA04) and submitted for analysis of BTEX by USEPA method 8260B. Groundwater impacts above COGCC Table 910-1 standards were confirmed in HA03 and HA04. Groundwater analytical results are summarized in Table 2 and illustrated on Figure 3. The complete laboratory analytical report is included in Attachment A.

Field observations of the perched water within the test pits, groundwater levels in the borings, and stained soil intervals were presented to a COGCC environmental specialist during an on-Site meeting on October 24, 2018 that included Tasman and Noble representatives. Based on input received during this meeting, Tasman was directed by Noble to excavate and treat the entire vadose zone and impacted saturated interval.

Tasman returned to the Site October 25 and 26, 2018 to complete delineating the lateral extents of hydrocarbon impacts surrounding the initial outlined excavation and treatment area using test pits. A total of ten test pits (TP15 through TP25) were completed from 5.5 ft. bgs. to 15 ft. bgs. Thirteen soil samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil impacts above COGCC Table 910-1 soil standards were confirmed in TP15 and TP19. Soil analytical data are summarized in Table 1 and the hand auger locations are illustrated on Figure 3. The laboratory report is included in Attachment A.

3.0 EXCAVATION AND SOIL MIXING

Based on the results of previous investigation and sampling activities, additional remediation was conducted at the Site to address the remaining impacts to soil and groundwater as described below. This section summarizes the excavation, chemical oxidation soil mixing and confirmation soil sampling that was completed at the Site between October 22, 2018 and January 10, 2019.

3.1 Excavation, Soil Mixing and Confirmation Sampling

Between October 22, 2018 and January 4, 2019, excavation and soil mixing activities were conducted by Tasman to address the remaining impacts to soil and groundwater throughout the site.

During this time period, Tasman used its proprietary Tas-Ox chemical oxidation mixing approach to address subsurface soil and groundwater petroleum hydrocarbon impacts. During this

treatment process, clean overburden material was removed, exposing impacted soil. Impacted soil and groundwater were mixed using a traditional excavator and concentrated hydrogen peroxide. The soil mixing area has been divided up into four sub-treatment areas based on varying Site conditions, volume of confirmation sampling completed, existing Site infrastructure, and variations in mixing techniques. The central treatment area was labeled the "Central Treatment Area [CTA]", the eastern treatment area was labeled the "East Treatment area [ETA]", the west treatment area was labeled the "West Treatment area [WTA]", and the northwest treatment area was labeled the "Northwest Treatment Area [NWTA]". Sub-treatment areas are illustrated on Figure 4. During excavation and treatment activities, small amounts of perched groundwater infiltrated into the excavation between October 22, 2018 and January 4, 2019. Approximately 500 gallons of water were removed and taken to C6 NGL in Platteville, Colorado under signed Noble waste manifests. Between October 22, 2018 and January 4, 2019, a total of approximately 79,800 gallons of hydrogen peroxide were used to treat approximately 10,250 cy of impacted material.

3.1.1 Central Treatment Area

3.1.1.1 Overburden Sample Collection

Based on analytical results from the various sampling activities, Noble determined that approximately 3 ft. of overburden would be removed and stockpiled on Site during excavation and mixing operations. Between October 24 and November 9, 2018, a total of fifty-two, five-point composite soil samples were collected from the overburden stockpiles. All samples were submitted to Summit for laboratory analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. All samples were also analyzed for Sodium Adsorption Ratio (SAR) by USEPA Method 6020 / United States Department of Agriculture (USDA) Method 60 6(2,3A) and Specific Conductance (EC) and pH via American Public Health Association (APHA)/American Society for Testing and Materials (ASTM)/USEPA methods. Soil impacts above COGCC Table 910-1 soil standards were not present in any of the overburden samples. Overburden soil analytical data is summarized in Table 3. The complete laboratory analytical report is included as Attachment A.

3.1.1.2 Soil Mixing

Soil Mixing was initiated in the CTA between October 22 through November 9, 2018. The initial excavation area extended west to east, to a depth of approximately 10 ft. bgs. and continued toward the south. To determine the final extent of the CTA and to confirm soil conditions, a total of forty-seven soil samples (SS17 through SS49) were collected along the sidewalls of the excavation at 6 ft. bgs. and 8.5 ft. bgs. and the base at approximately 10 ft. bgs. Soil samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil analytical data is summarized in Table 5 and sample locations are illustrated in Figure 5. The complete laboratory analytical report is included as Attachment A.

Between October 22, 2018 and November 9, 2018, approximately 3,100 cy of soil was treated with approximately 25,200 gallons of hydrogen peroxide. Following treatment of the CTA, the

excavation was backfilled with treated soil and remediation efforts moved to the East Treatment Area (ETA).

3.1.2 East Treatment Area

3.1.2.1 Soil Mixing Event

Soil mixing was completed in the in the ETA between November 12 through December 7, 2018. Thirty-eight soil samples (SS50 through SS70) were collected along the sidewalls of the excavation at 6 ft. bgs. and 8.5 ft. bgs. and the base at approximately 10 to 12 ft. bgs. depending on depth of impacts observed within the excavation. Soil samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil analytical data is summarized in Table 5 and sample locations are illustrated in Figure 5. The complete laboratory analytical report is included as Attachment A.

On November 28, 2018, a test pit was completed in the northeast corner of the proposed soil mixing area, to confirm impacts did not extend beyond the northern sidewall. Based on high PID readings in the area and samples below COGCC Table 910-1 standards, a split sample was collected (SS70@8.5'-1 and SS70@8.5'-2) to determine lab validity. With directive from a COGCC Environmental Protection Specialist, a duplicate laboratory analytical run using Summit and Origins Laboratories in Denver, Colorado was completed. The soil samples were analyzed for BTEX, naphthalene, and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) using United States Environmental Protection Agency (USEPA) Method 8260B, as well as total petroleum hydrocarbons-diesel range organics (DRO) using USEPA Method 8015. No petroleum hydrocarbons were detected at concentrations above COGCC Table 910-1 soil standards in the split samples. Analytical results were consistent between Summit Scientific and Origins Laboratories. Soil analytical data is summarized in Table 5 and sample location is illustrated in Figure 5. Laboratory reports are included as Attachment A.

Between November 12 and December 7, 2018, approximately 2,750 cy of soil was treated with approximately 29,400 gallons of hydrogen peroxide. Following treatment of the ETA, the excavation was backfilled with treated material and efforts were focused on the West Treatment Area (WTA).

3.1.3 West Treatment Area

3.1.3.1 Soil Mixing Event

Soil mixing was completed in the in the WTA between December 10 through December 21, 2018. Fifty soil samples (SS71 through SS104) were collected along the sidewalls of the excavation at 6 and 8.5 ft. bgs. and the base at approximately 10 to 14 ft. bgs. depending on depth of impacts observed within the excavation. Soil samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil analytical data is summarized in Table 5 and sample

locations are illustrated in Figure 5. The complete laboratory analytical report is included as Attachment A.

Between December 10 and 21, 2018, approximately 3,000 cy of soil was treated in the WTA with approximately 16,800 gallons of hydrogen peroxide. Following treatment of the WTA, the excavation was backfilled with treated material and efforts were focused on the NWTA.

3.1.4 Northwest Treatment Area

3.1.4.1 Soil Mixing Event

Soil mixing was completed in the NWTA between December 21 through January 4, 2019. Eleven soil samples (SS105 through SS112) were collected along the sidewalls of the excavation at 6 and 8.5 ft. bgs. and the base at approximately 10 to 12 ft. bgs. depending on depth of impacts observed within the excavation. Soil samples were submitted to Summit for analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil analytical data is summarized in Table 5 and sample locations are illustrated in Figure 5. The complete laboratory analytical report is included as Attachment A.

Between December 21 and January 4, 2019, approximately 1,400 cy of soil was treated with approximately 8,400 gallons of hydrogen peroxide. Following treatment of the NWTA, the excavation was backfilled with treated material.

3.2 Excavation and Treatment Sample Results

3.2.1 Excavation Sample Results

As summarized in Table 5, several samples were collected throughout the soil mixing process to confirm the treatment process was addressing petroleum hydrocarbon impacts in soil to COGCC Table 910-1 standards. Further details associated with the sampling results in each treatment area include:

- **Central Treatment Area** - From the forty-seven samples collected during excavation activities in the CTA, soil impacts above COGCC Table 910-1 standards were found in fourteen samples. As a result, sample locations were subsequently over excavated and resampled.
- **East Treatment Area** - From the thirty-eight samples collected during excavation activities in the ETA, soil impacts above COGCC Table 910-1 standards were found in two samples. As a result, sample locations were subsequently over excavated and resampled.
- **West Treatment Area** - From the fifty samples collected during excavation activities in the WTA, soil impacts above COGCC Table 910-1 standards were found in nine samples. As a result, sample locations were subsequently over excavated and resampled.
- **Northwest Treatment Area** - From the eleven samples collected during excavation activities in the NWTA, soil impacts above COGCC Table 910-1 standards were found in

one sample. As a result, sample locations were subsequently over excavated and resampled.

3.2.2 Treatment Confirmation Sample Results

Confirmation samples were collected for every 100 cy of treated material based on the calculated excavation area. Between October 24 and January 10, 2019, a total of one hundred three, five-point composite soil samples were collected from the treated material. Thirty-three samples (CS01-CS33) were collected from the CTA, twenty-six samples (CS34-CS59) were collected from the ETA, twenty-four samples (CS60-CS83) were collected from the WTA and twenty samples (CS84-CS103) were collected from the NWTA. All samples were submitted to Summit for laboratory analysis of BTEX, naphthalene, TPH-GRO and TPH-DRO. Soil impacts above COGCC Table 910-1 soil standards were present in eighteen of the treated soil samples (CS03, CS04, CS05, CS21, CS22, CS51 through CS59, CS52R, CS53R and CS55R). All failed material was given additional time for treatment and resampled. Soil treated in each treatment area of the Site achieved COGCC Table 910-1 soil standards. Confirmation soil analytical data is summarized in Table 4. The complete laboratory analytical report is included as Attachment A.

TABLES

TABLE 1
SITE ASSESSMENT SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
SS01@10'	05/18/18	857.1	**0.15**	<0.0050	18	**230**	**3,200**	**600**	2.0
SS03@5'	05/18/18	2,209	0.022	<0.0050	<0.0050	0.85	**1,100**	**240**	0.25
SS04@4'	05/18/18	371.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS05@5'	05/18/18	469.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS06@10'	05/18/18	1,959	<0.0020	<0.0050	1.7	28	**760**	**120**	1.1
SS07@10'	05/18/18	1,106	<0.0020	<0.0050	6.1	83	**1,300**	**610**	1.4
SS08@10'	05/18/18	1,803	**0.20**	0.037	0.12	90	**1,400**	**780**	0.071
SS09@10'	05/18/18	1,400	<0.0020	<0.0050	<0.0050	18	<50	230	0.010
SS10@5'	05/18/18	334.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
TP01@5'	07/25/18	1,507	**0.21**	<0.0050	3.8	31	**1,500**	**910**	1.6
TP01@10'	07/25/18	785.6	0.16	<0.0050	6.9	15	**970**	**420**	1.5
TP02@5'	07/25/18	1,394	<0.0020	<0.0050	0.096	2.2	110	360	0.15
TP02@11'	07/25/18	871.6	**0.65**	<0.0050	6.5	110	**2,900**	**600**	7.0
TP03@11'	07/25/18	1,049	<0.0020	<0.0050	1.7	3.7	**520**	**350**	0.78
TP04@10'	07/25/18	825.2	<0.0020	<0.0050	4.8	15	**790**	**680**	1.3
TP05@10'	07/25/18	10.9	<0.0020	<0.0050	<0.0050	0.015	<50	<50	0.022
TP06@10'	07/25/18	808.7	<0.0020	<0.0050	0.22	0.15	220	180	0.19
TP07@8'	07/25/18	525.0	<0.0020	<0.0050	0.069	0.063	30	120	0.11
TP07@12'	07/25/18	1,163	0.0053	<0.0050	0.34	<0.010	23	110	0.12
TP08@5'	07/25/18	1,248	0.071	<0.0050	4.5	16	**1,600**	**600**	1.9
TP08@10'	07/25/18	158.6	0.031	<0.0050	3.4	24	**850**	**300**	0.87
TP09@5'	07/25/18	1,249	**2.1**	<0.0050	12	110	**3,100**	**370**	1.9
TP09@10'	07/25/18	848	0.0094	<0.0050	0.081	0.77	<50	50	0.044
TP10@10'	07/25/18	790.0	0.013	<0.0050	2.5	35	**870**	**180**	0.17
TP12@7'	07/25/18	689.3	<0.0020	<0.0050	0.0051	0.050	<50	93	0.012
HA SS01@5'	08/01/18	0.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS02@10'	08/01/18	0.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS03@5'	08/01/18	0.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS04@9'	08/01/18	0.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS05@5'	08/01/18	0.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS06@6'	08/01/18	0.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS07@2'	08/01/18	0.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS08@4'	08/01/18	0.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS09@5'	08/01/18	467.2	**4.5**	<0.0050	10	**200**	**5,200**	**290**	0.37
HA SS10@3'	08/01/18	687.0	0.11	<0.0050	0.032	13	150	150	0.042
HA SS11@4'	08/01/18	134.8	**2.6**	<0.0050	7.4	110	**3,000**	**180**	0.23
HA SS12@4'	08/01/18	11.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS13@3'	08/01/18	3.4	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS14@5'	08/01/18	2.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS15@4'	08/01/18	171.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA SS16@4'	08/01/18	680.7	**0.42**	<0.0050	2.9	94	**3,400**	**360**	1.1
SS17@9.5'	10/22/18	33.1	0.0047	<0.0050	<0.0050	0.017	<50	<50	<0.010
HA01@2.5'	10/23/18	1.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA02@2.5'	10/23/18	1.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA03@2.5'	10/23/18	2.4	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA04@2.5'	10/23/18	2.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA04@5'	10/23/18	3.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA05@5'	10/23/18	24.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA06@2.5'	10/23/18	1.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
HA07@2'	10/23/18	2.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010

TABLE 1
SITE ASSESSMENT SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
TP15@6'	10/25/18	838.5	<0.0020	<0.0050	0.044	0.71	**70**	**440**	0.023
TP16@7'	10/25/18	565.1	<0.0020	<0.0050	<0.0050	0.025	<50	<50	<0.010
TP17@5.5'	10/25/18	415.7	0.0094	<0.0050	0.084	1.5	<50	85	0.047
TP17@11'	10/25/18	499.8	0.014	<0.0050	0.016	0.26	<50	76	0.010
TP18@7.5'	10/25/18	803.3	0.076	<0.0050	0.34	12	<50	190	0.14
TP19@6'	10/25/18	336.4	<0.0020	<0.0050	0.21	1.6	**1,200**	**290**	0.031
TP22@12'	10/26/18	87.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
TP22@15'	10/26/18	440.1	<0.0020	<0.0050	0.055	<0.010	<50	<50	<0.010
TP23@10.5'	10/26/18	510.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
TP24@5.5'	10/26/18	56.9	0.027	<0.0050	0.0088	0.15	<50	<50	<0.010
TP24@11'	10/26/18	682.7	0.024	<0.0050	0.022	0.26	<50	<50	0.012
TP25@6.5'	10/26/18	761.1	0.029	<0.0050	0.16	9.9	<50	120	0.082
TP25@10'	10/26/18	305.0	0.039	<0.0050	0.0064	0.083	<50	<50	0.014

Notes:
COGCC = Colorado Oil and Gas Conservation Commission
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
PID = Photoionization Detector
ppm = parts per million
mg/kg = Milligrams per kilogram
< = Analytical result is less than the indicated laboratory reporting limit
Soil standards referenced from COGCC Table 910-1
Highlighted results are equal to or exceed the COGCC Table 910-1 standard

TABLE 2
SITE ASSESSMENT GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Standard		**5**	**560**	**700**	**1,400**
BH01	10/01/18	<1.0	<1.0	<1.0	<2.0
BH02	10/01/18	3.2	<1.0	480	**5,200**
BH03	10/01/18	**3,100**	<1.0	**1,100**	**20,000**
BH04	10/01/18	<1.0	<1.0	33	250
BH05	10/01/18	**400**	4.5	690	**7,700**
BH06	10/01/18	**1,900**	<1.0	630	**13,000**
BH07	10/01/18	**760**	7.9	580	**5,800**
BH08	10/01/18	**5,200**	**4,700**	**710**	**14,000**
HA01	10/23/18	<1.0	<1.0	14	220
HA02	10/23/18	<1.0	<1.0	6.4	89
HA03	10/23/18	**69**	<1.0	22	250
HA04	10/23/18	**1,200**	<1.0	120	1,300

Notes:
COGCC = Colorado Oil and Gas Conservation Commission
µg/L = Micrograms per liter
< = Analytical result is less than the indicated laboratory reporting limit
Groundwater standards referenced from COGCC Table 910-1
Highlighted results are equal to or exceed the COGCC Table 910-1 standard

TABLE 3
OVERBURDEN SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)	SAR	pH	EC (mmhos/cm)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**	**<12**	**6-9**	**4mmhos/cm**
OB01	10/24/18	11.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.467	7.37	0.706
OB02	10/24/18	6.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.464	7.58	0.527
OB03	10/24/18	1.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.211	7.88	1.87
OB04	10/24/18	3.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.188	8.01	1.23
OB05	10/24/18	2.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.262	8.11	1.31
OB06	10/24/18	3.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.180	8.05	1.48
OB07	10/24/18	4.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.216	8.00	1.23
OB08	10/24/18	2.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.314	7.98	1.31
OB09	10/24/18	2.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.215	7.96	1.01
OB10	10/24/18	1.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.139	8.20	0.656
OB11	10/24/18	1.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.248	8.08	1.93
OB12	10/24/18	2.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.158	8.09	1.34
OB13	10/24/18	1.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.344	8.20	1.63
OB14	10/24/18	1.4	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.147	8.18	1.12
OB15	10/24/18	1.4	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.184	8.09	1.40
OB16	10/24/18	2.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.218	8.17	3.04
OB17	10/24/18	4.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.356	7.98	1.84
OB18	11/07/18	1.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.364	7.81	0.867
OB19	11/07/18	0.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.228	8.13	0.710
OB20	11/07/18	1.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.233	8.03	0.748
OB21	11/07/18	0.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.407	8.09	0.846
OB22	11/07/18	0.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.543	7.93	0.963
OB23	11/07/18	0.4	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.316	7.99	0.938
OB24	11/08/18	9.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.164	8.58	0.616
OB25	11/08/18	0.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.176	8.49	0.574
OB26	11/08/18	1.4	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.178	8.50	0.539
OB27	11/08/18	2.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.121	8.52	0.506
OB28	11/08/18	0.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.177	8.52	0.569
OB29	11/08/18	0.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.207	8.45	0.956
OB30	11/08/18	1.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.161	8.46	0.522
OB31	11/08/18	5.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.200	8.38	0.709
OB32	11/08/18	3.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	<0.100	8.36	0.639
OB33	11/08/18	6.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.176	8.46	0.501

TABLE 3
OVERBURDEN SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)	SAR	pH	EC (mmhos/cm)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**	**<12**	**6-9**	**4mmhos/cm**
OB34	11/09/18	2.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.231	8.61	0.480
OB35	11/09/18	1.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.225	8.51	0.485
OB36	11/09/18	2.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.233	8.49	0.436
OB37	11/09/18	4.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.349	8.58	0.430
OB38	11/09/18	4.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.173	8.54	0.526
OB39	11/09/18	1.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.188	8.45	0.543
OB40	11/09/18	1.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.158	8.44	0.593
OB41	11/09/18	0.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.141	8.46	0.560
OB42	11/09/18	3.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.276	8.31	0.768
OB43	11/09/18	3.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.350	8.25	0.719
OB44	11/09/18	4.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.271	8.29	0.703
OB45	11/09/18	5.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.262	8.30	0.596
OB46	11/09/18	4.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.207	8.15	0.708
OB47	11/09/18	5.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.343	8.29	0.624
OB48	11/09/18	4.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.270	8.32	0.671
OB49	11/09/18	4.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.233	7.94	0.766
OB50	11/09/18	4.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.250	7.69	1.04
OB51	11/09/18	5.4	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.134	7.97	0.762
OB52	11/09/18	5.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010	0.266	8.00	0.792

Notes:
COGCC = Colorado Oil and Gas Conservation Commission
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
SAR = Sodium Absorption Ratio
EC = Electrical Conductivitiy
PID = Photoionization Detector
ppm = parts per million
mg/kg = Milligrams per kilogram
mmhos/cm = Millimhos Per Centimeter
< = Analytical result is less than the indicated laboratory reporting limit
Soil standards referenced from COGCC Table 910-1
Highlighted results are equal to or exceed the COGCC Table 910-1 standard

TABLE 4
CONFIRMATION SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
CS01	10/30/18	395.8	<0.0020	<0.0050	0.0058	0.14	<50	57	<0.010
CS02	10/30/18	551.5	0.021	0.015	0.086	15	210	120	0.033
CS03	10/30/18	177.6	0.064	0.0054	0.29	30	**860**	**150**	0.12
CS04	10/30/18	474.8	0.0084	<0.0050	0.13	14	**720**	**190**	0.13
CS05	10/30/18	397.1	**0.74**	0.50	0.52	22	**290**	**220**	0.17
CS06	10/30/18	576.8	<0.0020	<0.0050	<0.0050	0.43	<50	97	0.021
CS07	10/30/18	514.4	<0.0020	<0.0050	<0.0050	0.55	<50	65	0.012
CS08	10/30/18	400.7	<0.0020	<0.0050	0.0074	0.51	<50	<50	<0.010
CS09	10/30/18	572.1	<0.0020	<0.0050	<0.0050	0.15	<50	71	<0.010
CS10	10/30/18	548.0	<0.0020	<0.0050	<0.0050	0.17	<50	<50	<0.010
CS03R	11/02/18	382.9	<0.0020	<0.0050	0.0079	0.30	<50	100	<0.010
CS04R	11/02/18	544.4	0.048	0.028	0.22	8.3	95	100	0.069
CS05R	11/02/18	363.0	0.015	0.022	0.038	10	<50	<50	0.034
CS11	11/05/18	448.7	0.016	0.020	0.14	5.6	<50	<50	0.049
CS12	11/05/18	390.5	0.023	0.0082	0.18	8.3	<50	<50	0.059
CS13	11/05/18	249.9	0.025	0.059	0.20	8.7	<50	<50	0.063
CS14	11/05/18	399.9	0.11	0.063	0.14	10	<50	<50	0.060
CS15	11/05/18	358.9	0.010	0.018	0.12	4.1	<50	<50	0.053
CS16	11/05/18	426.5	0.029	0.021	0.22	8.9	62	<50	0.059
CS17	11/05/18	383.0	0.045	0.055	0.18	13	<50	<50	0.060
CS18	11/05/18	642.5	0.047	0.026	0.29	7.1	57	<50	0.063
CS19	11/05/18	706.8	0.0091	0.056	0.23	12	81	<50	0.066
CS20	11/05/18	665.4	0.0078	0.025	0.097	14	<50	<50	0.052
CS21	11/05/18	620.2	**0.25**	0.036	0.76	13	260	66	0.10
CS22	11/05/18	330.3	**0.23**	0.25	0.46	49	<50	<50	0.054
CS21R	11/08/18	452.8	<0.0020	<0.0050	0.036	0.74	<50	<50	0.023
CS22R	11/08/18	319.3	0.022	0.016	0.13	7.6	<50	<50	0.034
CS23	11/08/18	341.1	0.025	0.021	0.11	4.2	<50	<50	0.025
CS24	11/08/18	168.7	0.015	0.013	0.12	4.2	<50	<50	0.032
CS25	11/08/18	217.8	0.021	0.016	0.13	3.7	<50	<50	0.041
CS26	11/08/18	250.7	0.036	0.017	0.25	10	<50	<50	0.053
CS27	11/12/18	276.7	0.039	0.074	0.24	9.1	<50	<50	0.036
CS28	11/12/18	291.5	0.016	0.019	0.077	1.1	<50	<50	0.019
CS29	11/12/18	250.4	0.012	<0.0050	0.074	0.67	<50	<50	0.021
CS30	11/12/18	155.8	0.044	0.048	0.22	4.3	<50	<50	0.035
CS31	11/12/18	259.9	0.011	0.011	0.086	1.1	<50	<50	0.025
CS32	11/13/18	226.8	0.029	0.013	0.12	3.7	<50	<50	0.025
CS33	11/13/18	167.4	0.028	0.0088	0.13	2.4	<50	<50	0.022
CS34	11/14/18	263.5	0.0052	<0.0050	0.062	0.83	<50	<50	0.015
CS35	11/14/18	139.4	0.0098	<0.0050	0.083	0.97	<50	<50	0.022
CS36	11/14/18	196.9	0.0056	<0.0050	0.046	0.65	<50	<50	0.016
CS37	11/14/18	170.1	0.0041	<0.0050	0.063	0.83	<50	<50	0.014
CS38	11/15/18	173.7	0.0032	<0.0050	0.053	0.77	<50	<50	0.013
CS39	11/15/18	530.1	0.024	<0.0050	0.25	17	<50	<50	0.035
CS40	11/15/18	299.8	0.0054	<0.0050	0.088	4.3	<50	<50	0.018
CS41	11/15/18	309.6	<0.0020	<0.0050	0.055	0.78	<50	<50	0.014
CS42	11/15/18	251.3	0.018	<0.0050	0.14	4.4	<50	<50	0.019
CS43	11/20/18	575.3	<0.0020	<0.0050	0.025	0.079	<50	<50	0.010
CS44	11/20/18	818.7	<0.0020	<0.0050	0.051	0.17	<50	<50	0.020

TABLE 4
CONFIRMATION SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
CS45	11/20/18	495.1	<0.0020	<0.0050	0.025	0.19	<50	<50	0.021
CS46	11/20/18	433.4	<0.0020	<0.0050	0.021	0.045	<50	<50	0.011
CS47	11/20/18	319.4	<0.0020	<0.0050	0.0073	0.14	<50	<50	<0.010
CS48	11/20/18	395.2	0.0030	<0.0050	0.0068	0.094	<50	<50	<0.010
CS49	11/20/18	443.0	0.0037	<0.0050	0.022	0.16	<50	<50	<0.010
CS50	11/20/18	1,125	0.0035	<0.0050	0.012	0.18	<50	<50	<0.010
CS51	11/28/18	2,370	**0.37**	7.4	0.63	30	320	110	0.092
CS52	11/28/18	2,251	**0.30**	2.6	2.4	36	370	88	0.14
CS53	11/28/18	2,035	**0.44**	2.7	2.3	34	370	71	0.16
CS54	11/28/18	2,412	**0.48**	5.9	0.53	63	**700**	**84**	0.13
CS55	11/28/18	2,081	**0.19**	0.74	0.46	36	**410**	**93**	0.089
CS56	11/28/18	1,765	**0.49**	2.5	2.1	31	300	150	0.18
CS57	11/28/18	2,033	**0.50**	2.3	3.1	44	**410**	**160**	0.24
CS58	11/28/18	2,170	0.14	0.47	0.53	43	**470**	**60**	0.099
CS59	11/28/18	2,065	**0.45**	5.0	10	45	**430**	**96**	0.17
CS52R	12/03/18	1,894	**0.23**	2.4	0.38	29	83	210	0.073
CS51R2	12/06/18	955.4	0.015	0.22	0.29	24	64	200	0.10
CS52R2	12/06/18	430.7	0.052	0.50	0.32	38	50	54	0.057
CS53R2	12/06/18	552.1	0.10	0.58	0.40	19	**550**	**73**	0.095
CS54R2	12/06/18	605.9	0.060	0.59	0.58	32	320	<50	0.098
CS55R2	12/06/18	546.8	0.073	1.6	1.6	31	**580**	**55**	0.092
CS56R2	12/06/18	315.5	0.014	0.10	0.15	4.4	<50	50	0.043
CS57R2	12/06/18	1,114	0.050	0.47	1.3	24	75	100	0.19
CS58R2	12/06/18	957.2	0.077	0.37	0.30	4.2	63	110	0.096
CS59R2	12/06/18	700.9	0.017	0.16	0.35	26	65	90	0.11
CS60	12/11/18	440.1	0.028	<0.0050	0.21	7.3	<50	<50	0.043
CS61	12/11/18	284.4	0.039	<0.0050	0.11	1.7	<50	<50	0.025
CS62	12/11/18	663.3	0.044	<0.0050	0.23	15	<50	<50	0.052
CS63	12/11/18	648.9	0.056	<0.0050	0.29	16	<50	54	0.060
CS64	12/11/18	573.9	0.013	<0.0050	0.098	1.3	<50	<50	0.024
CS65	12/12/18	341.1	0.020	<0.0050	0.11	3.8	<50	<50	0.049
CS66	12/12/18	604.4	0.012	0.010	0.073	1.5	<50	<50	0.066
CS67	12/12/18	620.7	0.025	0.015	0.20	12	<50	<50	0.073
CS68	12/12/18	666.5	0.022	0.0062	0.23	13	85	110	0.089
CS69	12/12/18	286.0	0.0073	<0.0050	0.066	0.78	<50	<50	0.042
CS70	12/12/18	299.9	0.012	<0.0050	0.031	0.39	<50	<50	0.022
CS71	12/12/18	127.6	0.0083	<0.0050	0.070	1.2	<50	<50	0.029
CS53R3	12/12/18	456.7	**0.17**	1.6	1.0	24	<50	65	0.42
CS55R3	12/12/18	266.2	0.056	0.10	0.15	2.5	<50	<50	0.23
CS53R3	12/13/18	-	0.110	0.68	0.24	24	310	65	0.078
CS72	12/14/18	396.4	0.0034	<0.0050	0.10	1.0	<50	<50	0.034
CS73	12/14/18	373.8	<0.0020	<0.0050	0.066	0.41	<50	51	0.036
CS74	12/14/18	277.5	<0.0020	<0.0050	0.032	0.46	<50	<50	0.026
CS75	12/14/18	299.8	<0.0020	<0.0050	0.071	0.76	<50	<50	0.031
CS76	01/02/19	556.2	0.021	0.034	0.28	2.0	<50	<50	0.049
CS77	01/02/19	1,215	<0.0020	<0.0050	0.025	0.73	<50	<50	0.038
CS78	01/02/19	770.6	0.036	0.084	0.16	1.8	<50	<50	0.042
CS79	01/02/19	360.0	0.0068	0.020	0.055	0.93	<50	<50	0.023

TABLE 4
CONFIRMATION SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
CS80	01/02/19	895.4	0.012	0.026	0.10	1.1	<50	<50	0.026
CS81	01/02/19	627.1	<0.0020	<0.0050	0.0072	1.1	57	<50	0.037
CS82	01/02/19	451.6	<0.0020	<0.0050	0.027	0.54	<50	<50	0.019
CS83	01/02/19	1,650	0.028	0.086	0.19	1.6	60	<50	0.043
CS84	01/02/19	340.4	<0.0020	<0.0050	<0.0050	0.015	<50	<50	<0.010
CS85	01/02/19	400.7	0.011	0.043	0.088	1.2	<50	50	0.028
CS86	01/02/19	185.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
CS87	01/02/19	268.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
CS88	01/02/19	356.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
CS89	01/02/19	324.3	<0.0020	<0.0050	<0.0050	<0.010	<50	52	<0.010
CS90	01/10/19	2,522	0.0046	<0.0050	0.62	20	<50	190	0.21
CS91	01/10/19	850.8	<0.0020	<0.0050	0.14	1.4	<50	50	0.052
CS92	01/10/19	612.2	0.0057	<0.0050	0.22	1.9	<50	74	0.078
CS93	01/10/19	1,123	<0.0020	<0.0050	0.065	1.2	<50	65	0.058
CS94	01/10/19	1,131	<0.0020	<0.0050	0.024	0.64	<50	<50	0.034
CS95	01/10/19	1,266	<0.0020	<0.0050	0.071	0.94	<50	60	0.026
CS96	01/10/19	927.3	<0.0020	<0.0050	0.012	0.14	<50	<50	0.023
CS97	01/10/19	1,414	<0.0020	<0.0050	0.21	7.4	<50	130	0.091
CS98	01/10/19	1,623	<0.0020	<0.0050	0.055	1.1	<50	62	0.036
CS99	01/10/19	1,604	<0.0020	<0.0050	0.058	1.1	<50	100	0.046
CS100	01/10/19	1,498	<0.0020	<0.0050	0.11	1.3	<50	70	0.060
CS101	01/10/19	2,459	<0.0020	<0.0050	0.026	0.21	<50	74	0.037
CS102	01/10/19	1,913	0.0035	<0.0050	0.044	0.60	<50	110	0.099
CS103	01/10/19	1,550	0.019	<0.0050	0.42	20	<50	140	0.11

Notes:
COGCC = Colorado Oil and Gas Conservation Commission
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
PID = Photoionization Detector
ppm = parts per million
mg/kg = Milligrams per kilogram
< = Analytical result is less than the indicated laboratory reporting limit

Soil standards referenced from COGCC Table 910-1
Highlighted results are equal to or exceed the COGCC Table 910-1 standard

TABLE 5
EXCAVATION AND SOIL MIXING ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
SS18@6'	10/31/18	113.0	0.054	<0.0050	0.028	0.14	<50	<50	<0.010
SS18@8.5'	10/31/18	514.6	**0.38**	<0.0050	0.67	18	220	130	0.17
SS19@6'	10/31/18	355.4	**0.70**	<0.0050	3.3	34	**1,300**	**290**	0.34
SS19@8.5'	10/31/18	400.0	**0.52**	<0.0050	2.8	29	**410**	**270**	0.22
SS20@6'	10/31/18	569.5	0.052	<0.0050	0.13	8.6	66	240	0.027
SS20@8.5'	10/31/18	464.5	0.089	<0.0050	0.34	15	76	130	0.077
SS21@6'	10/31/18	548.4	0.075	<0.0050	0.29	13	80	240	0.10
SS21@8.5'	10/31/18	385.8	**0.18**	<0.0050	0.095	1.4	<50	<50	0.025
SS22@6'	10/31/18	633.3	0.068	<0.0050	0.41	14	80	140	0.086
SS22@8.5'	10/31/18	339.9	**0.31**	<0.0050	0.79	55	**850**	**220**	0.14
SS23@9'	10/31/18	578.1	0.13	<0.0050	0.13	1.4	<50	52	0.039
SS24@9'	10/31/18	398.2	**0.23**	<0.0050	0.69	15	83	200	0.13
SS25@9'	10/31/18	380.5	0.064	<0.0050	0.059	1.0	<50	<50	0.024
SS26@9'	10/31/18	443.4	**0.47**	<0.0050	1.2	19	150	240	0.18
SS27@9'	10/31/18	284.4	0.063	<0.0050	0.0098	0.14	<50	<50	0.020
SS28@6'	11/01/18	369.5	**0.26**	<0.0050	0.098	3.1	<50	62	0.012
SS28@8.5'	11/01/18	709.2	0.14	<0.0050	0.29	2.0	<50	120	0.075
SS29@6'	11/01/18	575.4	0.051	<0.0050	0.15	5.7	83	260	0.042
SS29@8.5'	11/01/18	631.5	0.12	0.0078	0.58	15	**420**	**260**	0.15
SS30@6'	11/01/18	585.5	<0.0020	<0.0050	<0.0050	0.012	<50	<50	<0.010
SS30@8.5'	11/01/18	253.3	**0.57**	0.0060	0.72	5.1	230	160	0.13
SS31@6'	11/01/18	522.1	<0.0020	<0.0050	0.0076	0.32	<50	150	0.034
SS31@8.5'	11/01/18	583.1	**0.32**	0.0050	0.66	41	**800**	**190**	0.11
SS32@6'	11/01/18	675.3	0.0073	<0.0050	0.13	7.3	**360**	**300**	0.12
SS32@8.5'	11/01/18	569.5	0.020	<0.0050	0.076	1.3	53	170	0.073
SS33@10'	11/01/18	360.5	0.13	<0.0050	0.24	3.3	84	160	0.046
SS34@10'	11/01/18	357.3	0.022	<0.0050	0.022	0.30	<50	<50	0.014
SS35@10'	11/01/18	385.5	0.043	<0.0050	0.0085	0.13	<50	200	<0.010
SS36@10'	11/01/18	349.1	**0.21**	<0.0050	0.34	7.9	83	<50	0.089
SS37@10'	11/01/18	374.4	0.058	<0.0050	0.068	1.0	<50	90	0.047
SS38@10'	11/02/18	290.2	0.026	<0.0050	0.011	0.16	<50	<50	<0.010
SS39@10'	11/02/18	412.5	0.056	<0.0050	0.068	0.70	<50	<50	0.023
SS40@10'	11/02/18	335.6	0.047	<0.0050	0.0066	0.085	<50	<50	<0.010
SS41@10'	11/02/18	325.6	0.10	0.012	0.089	2.7	<50	<50	0.016
SS42@10'	11/02/18	382.7	**0.19**	0.30	0.31	7.7	50	310	0.097
SS43@10'	11/02/18	417.7	0.041	<0.0050	0.065	1.2	<50	110	0.043
SS44@10'	11/05/18	527.1	0.086	<0.0050	0.011	0.16	<50	<50	0.011
SS45@6'	11/05/18	724.5	**0.80**	<0.0050	2.3	58	**440**	**780**	0.51
SS45@8.5'	11/05/18	186.6	**0.37**	<0.0050	0.60	18	78	140	0.13
SS46@6'	11/05/18	761.6	0.13	<0.0050	0.80	79	160	160	0.24
SS46@8.5'	11/05/18	681.5	0.16	<0.0050	0.68	14	90	190	0.13
SS47@6'	11/05/18	502.5	0.042	<0.0050	0.036	0.50	<50	110	0.019
SS47@8.5'	11/05/18	389.3	0.12	<0.0050	0.030	0.38	<50	<50	<0.010
SS48@6'	11/05/18	656.7	0.0061	<0.0050	0.15	9.3	<50	200	0.060
SS48@8.5'	11/05/18	404.3	0.069	<0.0050	0.012	0.16	<50	<50	0.015
SS49@6'	11/05/18	614.8	0.072	<0.0050	0.50	0.20	80	360	0.11
SS49@8.5'	11/05/18	207.9	0.13	<0.0050	0.013	0.19	<50	<50	0.016
SS50@6'	11/13/18	28.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS50@8.5'	11/13/18	574.1	0.018	<0.0050	0.036	0.51	<50	<50	<0.010
SS51@10'	11/13/18	69.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS52@6'	11/14/18	881.5	<0.0020	<0.0050	0.0085	0.15	<50	<50	<0.010
SS52@8.5'	11/14/18	1,261	0.0032	<0.0050	0.052	0.72	<50	<50	0.014
SS53@6'	11/14/18	1,373	0.037	<0.0050	1.1	13	86	66	0.15
SS53@8.5'	11/14/18	964.8	<0.0020	<0.0050	<0.0050	0.077	<50	200	<0.010

TABLE 5
EXCAVATION AND SOIL MIXING ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

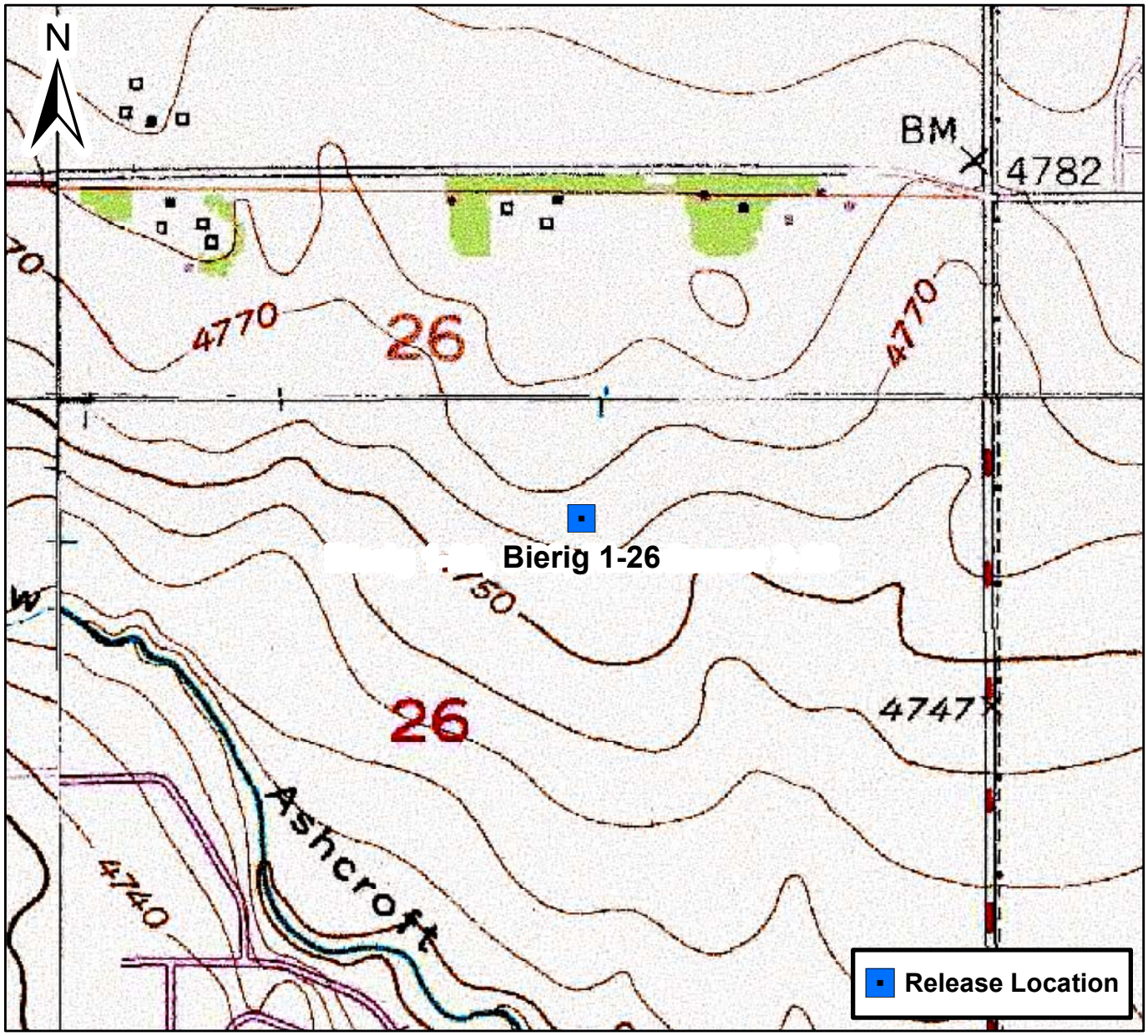
Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
SS54@6'	11/15/18	43.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS54@8.5'	11/15/18	4,035	<0.0020	<0.0050	0.17	4.9	53	140	0.060
SS55@6'	11/15/18	36.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS55@8.5'	11/15/18	3,613	<0.0020	<0.0050	0.0075	0.087	<50	67	<0.010
SS56@6'	11/15/18	15.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS56@8.5'	11/15/18	4,195	<0.0020	<0.0050	0.029	0.38	<50	<50	0.011
SS57@10'	11/15/18	20.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS58@12'	11/15/18	6.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS59@10'	11/15/18	19.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS60@10'	11/15/18	7.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS61@10'	11/15/18	69.7	0.0052	<0.0050	<0.0050	0.012	<50	<50	<0.010
SS62@6'	11/26/18	822.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS62@8.5'	11/26/18	2,474	0.0071	<0.0050	0.10	1.2	<50	57	0.026
SS63@10'	11/26/18	4.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS64@10'	11/26/18	273.2	**0.31**	<0.0050	0.052	0.48	<50	<50	<0.010
SS65@10'	11/26/18	956.5	0.060	<0.0050	0.026	0.24	<50	<50	<0.010
SS66@12'	11/27/18	129.1	0.030	<0.0050	<0.0050	0.035	<50	<50	0.014
SS67@6'	11/28/18	3,813	0.040	0.017	0.54	10	110	180	0.28
SS67@8.5'	11/28/18	2,849	0.028	<0.0050	0.27	8.7	<50	79	0.085
SS68@10'	11/28/18	391.4	0.13	<0.0050	0.022	0.29	<50	<50	0.011
SS69@10'	11/28/18	435.1	0.011	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS70@6'	11/28/18	806.7	<0.0020	<0.0050	0.012	0.10	<50	54	<0.010
SS70@8.5' -1	11/28/18	4,090	0.0051	<0.0050	0.0077	0.099	<50	<50	<0.010
SS70@8.5' - 2	11/28/18	4,090	<0.050	<0.050	<0.050	<0.050	<5.00	<50	<0.200
SS70@10'	11/28/18	3,119	0.0070	<0.0050	0.0092	0.12	<50	<50	<0.010
SS71@6'	12/03/18	504.8	0.010	<0.0050	0.046	0.75	**440**	**190**	<0.010
SS71@8.5'	12/03/18	1,919	0.022	<0.0050	0.020	0.21	<50	<50	0.014
SS72@6'	12/03/18	5.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS72@8.5'	12/03/18	3,079	0.053	<0.0050	0.32	4.4	<50	100	0.11
SS73@6'	12/04/18	471.6	<0.0020	<0.0050	0.017	0.29	51	78	<0.010
SS73@8.5'	12/04/18	267.5	0.012	<0.0050	<0.0050	0.019	<50	<50	<0.010
SS74@10'	12/04/18	193.3	0.0220	<0.0050	<0.0050	0.028	<50	<50	<0.010
SS75@6'	12/11/18	0.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS75@8.5'	12/11/18	114.6	<0.0020	<0.0050	<0.0050	0.025	<50	<50	<0.010
SS76@6'	12/11/18	3.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS76@8.5'	12/11/18	881.3	**1.9**	0.011	5.8	81	**1,800**	**160**	1.2
SS77@12.5'	12/11/18	140.5	0.011	<0.0050	<0.0050	0.024	<50	<50	<0.010
SS78@12.5'	12/11/18	10.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS79@12.5'	12/11/18	45.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS80@12.5'	12/11/18	13.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS81@6'	12/11/18	11	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS81@8.5'	12/11/18	170.4	0.0032	<0.0050	0.069	0.97	<50	<50	0.014
SS82@6'	12/11/18	7.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS82@8.5'	12/11/18	1,410	<0.0020	<0.0050	0.56	13	3.5	<50	0.088
SS83@6'	12/12/18	618.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS83@8.5'	12/12/18	5.5	**5.6**	0.63	17	**220**	<50	**1,200**	2.7
SS84@6'	12/13/18	0.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS84@8.5'	12/13/18	873.0	0.11	<0.0050	0.39	21	**820**	**110**	0.10
SS85@6'	12/13/18	9.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS85@8.5'	12/13/18	203.5	<0.0020	<0.0050	0.033	0.057	**410**	**150**	<0.010
SS86@6'	12/13/18	6.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS86@8.5'	12/13/18	1,258	0.097	<0.0050	0.17	0.98	<50	77	0.028
SS87@12.5'	12/13/18	54.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010

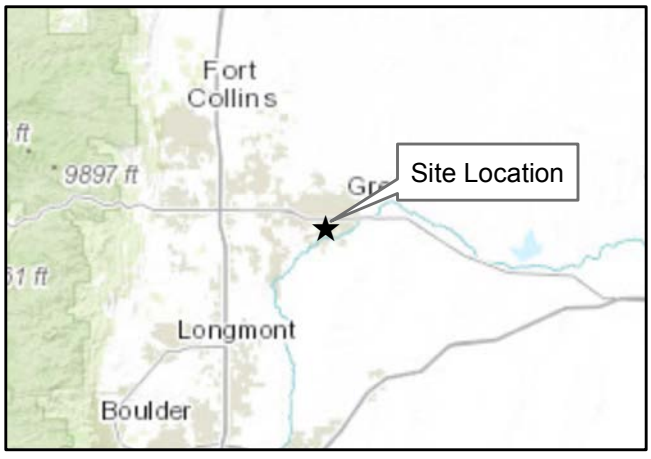
TABLE 5
EXCAVATION AND SOIL MIXING ANALYTICAL DATA
NOBLE ENERGY, INC. - BIERIG 1-26

Soil Sample ID	Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Naphthalene (mg/kg)
COGCC Soil Standard (mg/kg)			**0.17**	**85**	**100**	**175**	**500**		**23**
SS88@6'	12/14/18	6.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS88@8.5'	12/14/18	2,675	<0.0020	<0.0050	0.090	0.63	58	<50	<0.010
SS89@6'	12/14/18	7.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS89@8.5'	12/14/18	3,374	**2.3**	<0.0050	8.9	120	**1,500**	**87**	1.5
SS90@6'	12/17/18	22.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS90@8.5'	12/17/18	1,084	<0.0020	<0.0050	1.6	22	**800**	**75**	0.29
SS91@12'	12/17/18	21.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS92@6'	12/17/18	3.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS92@8.5'	12/17/18	1,354	**1.3**	<0.0050	4.4	41	**1,300**	**180**	0.45
SS93@6'	12/17/18	7.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS93@8.5'	12/17/18	807.4	**0.34**	<0.0050	0.79	11	**500**	**300**	0.077
SS94@6'	12/17/18	7.9	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS94@8.5'	12/17/18	2,345	<0.0020	<0.0050	0.66	19	**630**	**120**	0.24
SS95@6'	12/18/18	3.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS95@8.5'	12/18/18	2,487	<0.0020	<0.0050	<0.0050	<0.010	<50	99	<0.010
SS96@6'	12/18/18	7.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS96@8.5'	12/18/18	51.2	0.0059	<0.0050	0.0066	0.069	<50	<50	<0.010
SS97@6'	12/18/18	5.6	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS97@8.5'	12/18/18	198.5	0.16	<0.0050	0.055	0.22	<50	<50	<0.010
SS98@6'	12/18/18	1.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS98@8.5'	12/18/18	42.0	0.083	<0.0050	0.023	0.066	<50	<50	<0.010
SS99@12'	12/18/18	397.5	<0.0020	<0.0050	0.32	1.4	140	<50	0.10
SS100@14'	12/18/18	587.5	<0.0020	<0.0050	<0.0050	0.036	<50	<50	<0.010
SS101@6'	12/18/18	11.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS101@8.5'	12/18/18	229.7	0.015	<0.0050	0.0096	0.10	<50	<50	<0.010
SS102@6'	12/20/18	7.8	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS102@8.5'	12/20/18	1,237	0.016	0.0069	<0.0050	0.022	<50	230	<0.010
SS103@10'	12/20/18	75.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS104@10'	12/20/18	2.2	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS105@6'	01/02/19	2.7	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS105@8.5'	01/02/19	1,750	0.0036	<0.0050	13	98	**4,800**	**1,300**	1.9
SS106@10'	01/02/19	21.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS107@11'	01/02/19	79.2	0.0037	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS108@12'	01/02/19	7.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS109@10'	01/03/19	4.3	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS110@10'	01/03/19	5.0	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS111@6'	01/03/19	18.5	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS111@8.5'	01/03/19	3,005	<0.0020	<0.0050	0.0062	0.077	<50	51	<0.010
SS112@6'	01/03/19	9.1	<0.0020	<0.0050	<0.0050	<0.010	<50	<50	<0.010
SS112@8.5'	01/03/19	1,913	<0.0020	<0.0050	0.069	1.0	<50	65	0.027

Notes:
COGCC = Colorado Oil and Gas Conservation Commission
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
PID = Photoionization Detector
ppm = parts per million
mg/kg = Milligrams per kilogram
< = Analytical result is less than the indicated laboratory reporting limit
Soil standards referenced from COGCC Table 910-1
Highlighted results are equal to or exceed the COGCC Table 910-1 standard

FIGURES





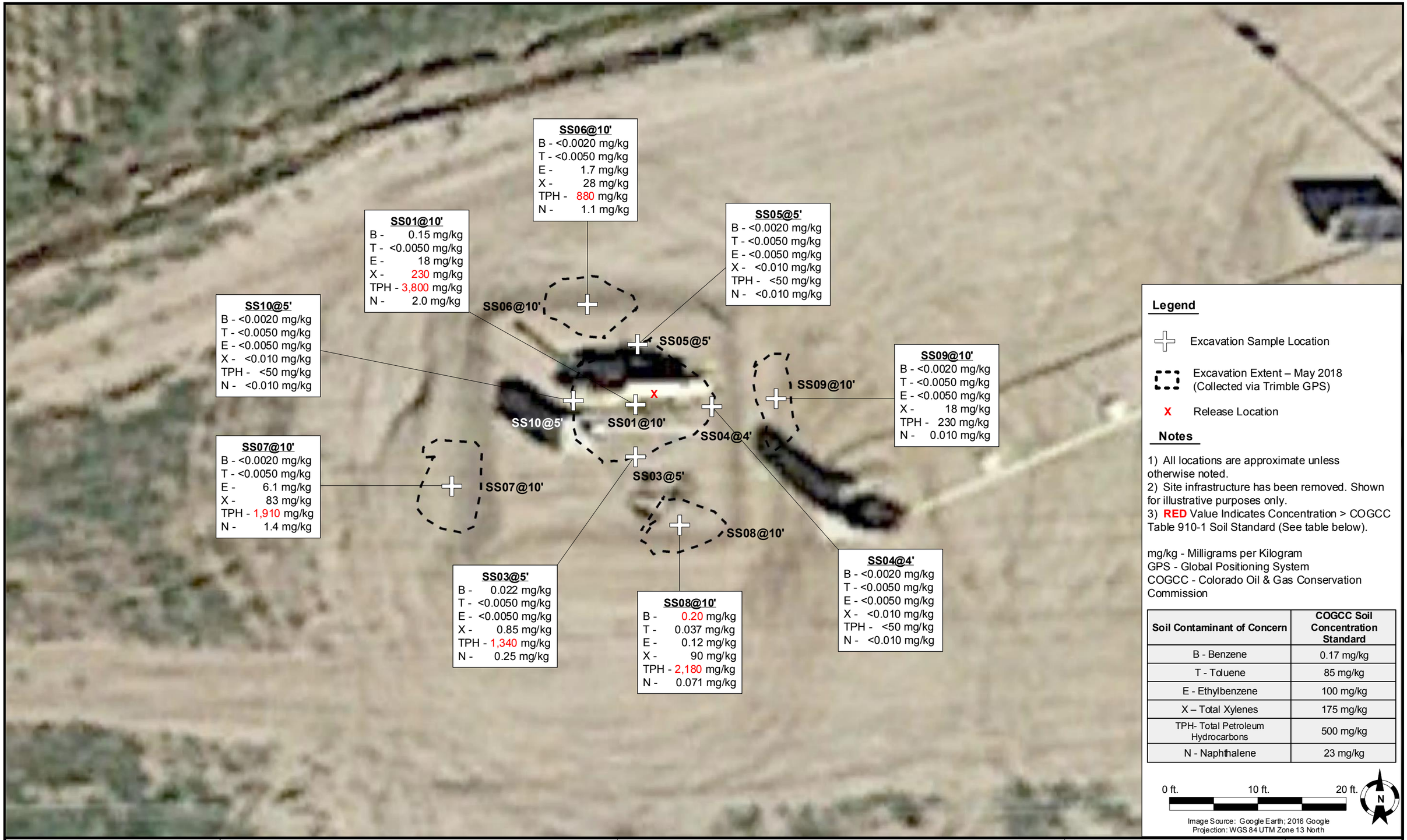
0 750 1,500 Feet

Figure 1

Site Location Map
Bierig 1-26
NENE S26 T5N R66W Weld
County, Colorado

TASMAN GEOSCIENCES

Drawn By: DC
Date: 2/16/2017



Legend

- Excavation Sample Location
- Excavation Extent – May 2018 (Collected via Trimble GPS)
- X Release Location

Notes

1) All locations are approximate unless otherwise noted.
2) Site infrastructure has been removed. Shown for illustrative purposes only.
3) **RED** Value Indicates Concentration > COGCC Table 910-1 Soil Standard (See table below).

mg/kg - Milligrams per Kilogram
GPS - Global Positioning System
COGCC - Colorado Oil & Gas Conservation Commission

Soil Contaminant of Concern	COGCC Soil Concentration Standard
B - Benzene	0.17 mg/kg
T - Toluene	85 mg/kg
E - Ethylbenzene	100 mg/kg
X – Total Xylenes	175 mg/kg
TPH- Total Petroleum Hydrocarbons	500 mg/kg
N - Naphthalene	23 mg/kg

0 ft. 10 ft. 20 ft. N

Image Source: Google Earth; 2016 Google
Projection: WGS 84 UTM Zone 13 North

DATE:	7/18/2018
DESIGNED BY:	DA
DRAWN BY:	GB

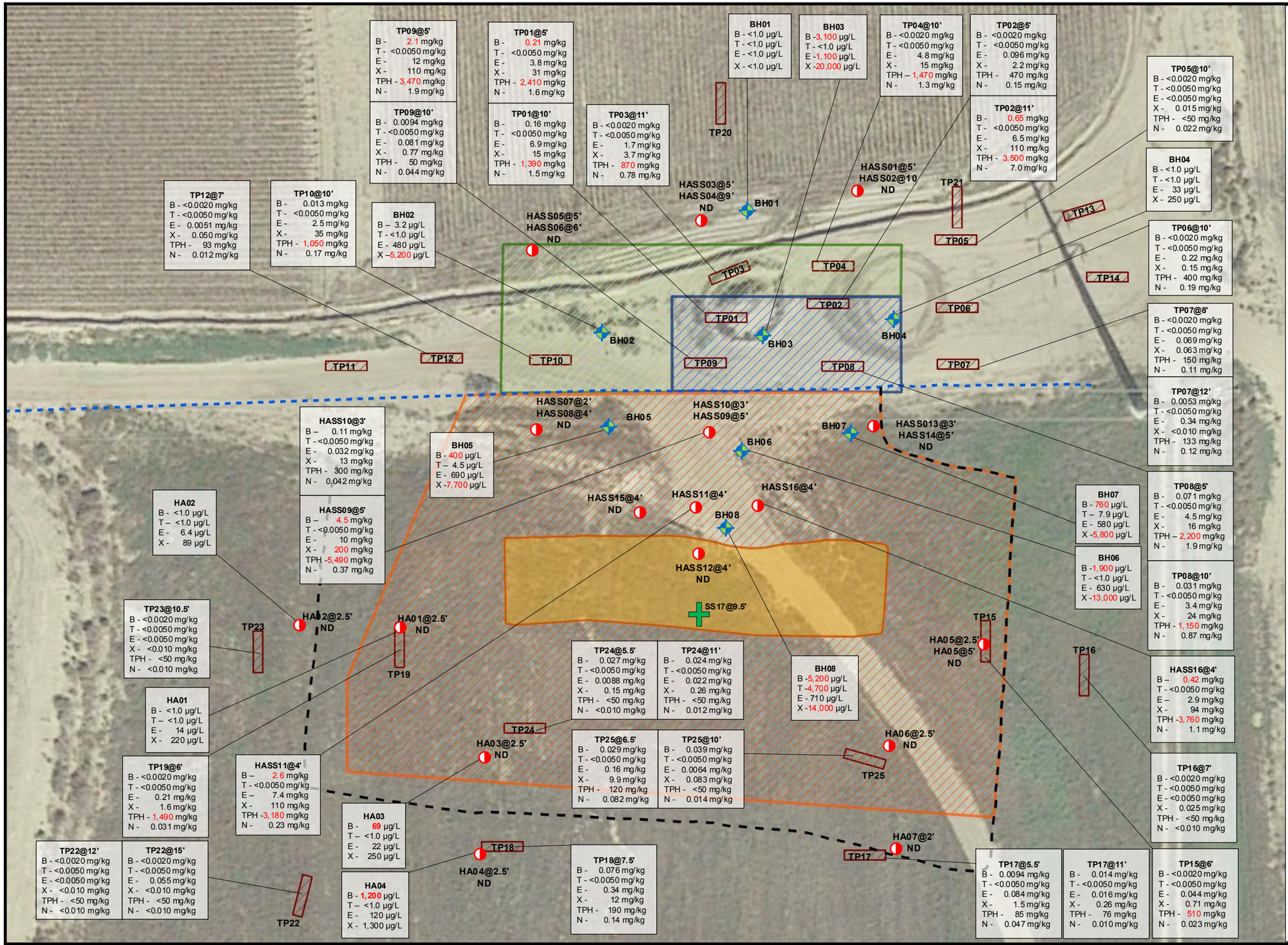
TASMAN GEOSCIENCES

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

Noble Energy – DJ Basin
Bierig 1-26
NENE, Section 26, Township 5 North, Range 66 West
Weld County, Colorado

Original Excavation Soil Analytical Results Map (05/18/18)

FIGURE 2



Legend

- Proposed Soil Mixing Area (3-12' bgs)
- Proposed Soil Mixing Area (10-15' bgs)
- Proposed Soil Mixing Area (3-9' bgs)
- Treated Soil Area (Collected vis Trimble GPS)
- Area of Stripped Overburden (Collected via Trimble GPS)
- Irrigation Line (Collected via Trimble GPS)
- Excavation – May 2018 (Collected via Trimble GPS)
- Test Pit Location (Collected via Trimble GPS)
- Soil Boring Location (Collected via Trimble GPS)
- Temporary Monitoring Well Location
- Excavation Sample Location – Below COCGG Standards (Collected via Trimble GPS)

Notes

1) All locations are approximate unless otherwise noted.
2) For Clarity Purposes Non-Detect Analytical Results Are Not Shown
3) **RED** Value Indicates Concentration > COGCC Table 910-1 Standard (See table below).
mg/kg - Milligrams per Kilogram
GPS - Global Positioning System
ug/L – Micrograms Per Liter
ND – Non- Detect
COGCC – Colorado Oil and Gas Conservation Commission

Groundwater Contaminant of Concern	COGCC Concentration Standard
B - Benzene	5 ug/L
T - Toluene	560 ug/L
E - Ethylbenzene	700 ug/L
X – Total Xylenes	1,400 ug/L

Contaminant of Concern	COGCC Soil Concentration Standard
B - Benzene	0.17 mg/kg
T - Toluene	85 mg/kg
E - Ethylbenzene	100 mg/kg
X – Total Xylenes	175 mg/kg
TPH- Total Petroleum Hydrocarbons	500 mg/kg
N - Naphthalene	23 mg/kg

0 ft. 40 ft. 80 ft. N

Image Source: Google Earth; 2016 Google
Projection: WGS 84 UTM Zone 13 North

DATE: 02/06/19
DESIGNED BY: ML
DRAWN BY: TL

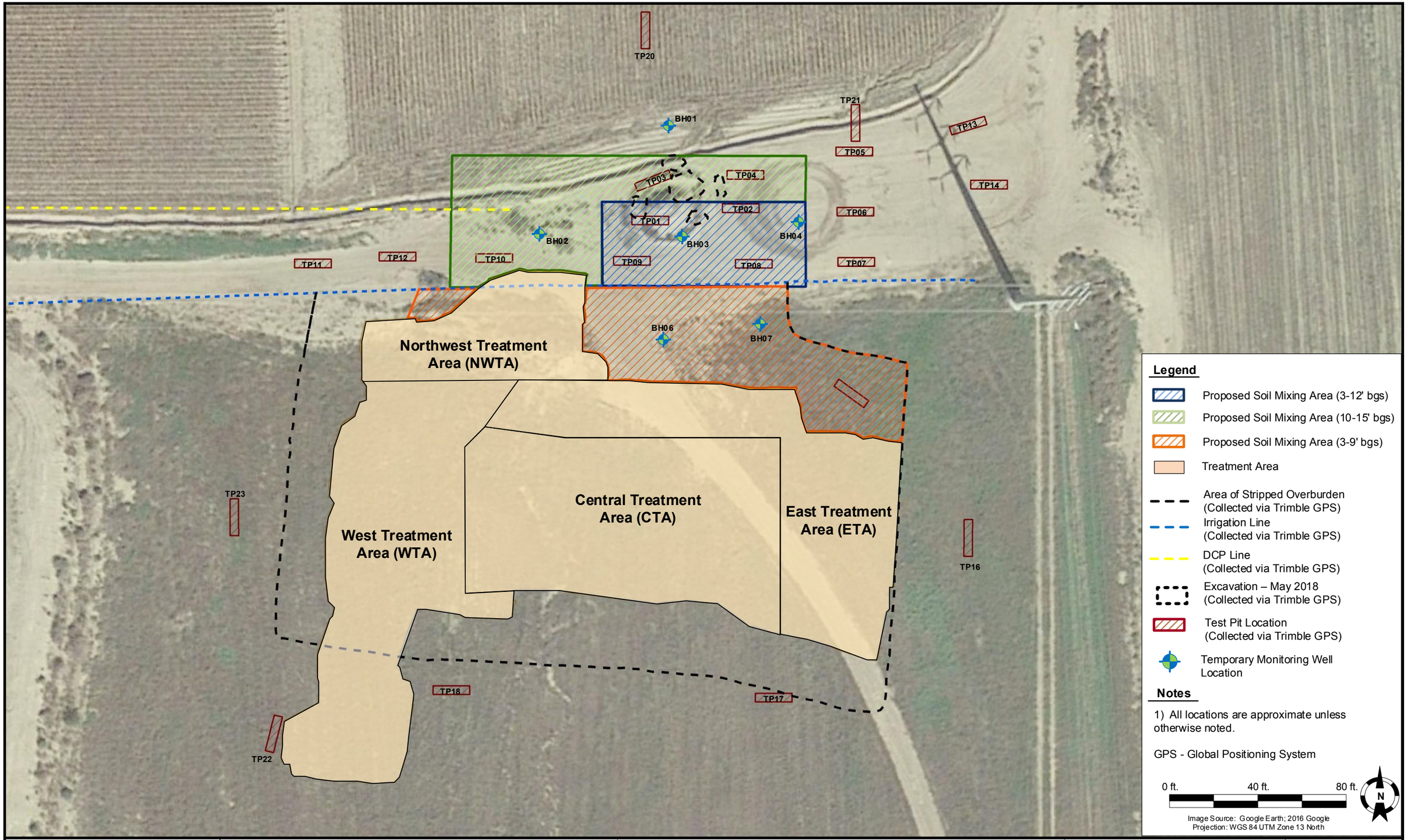
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Denver, CO 80221

Noble Energy – DJ Basin
Bierig 1-26
NENE, Section 26, Township 5 North, Range 66 West
Weld County, Colorado

Site Assessment Soil and Groundwater Analytical Results Map

FIGURE 3



DATE:	02/07/2019
DESIGNED BY:	ML
DRAWN BY:	JW

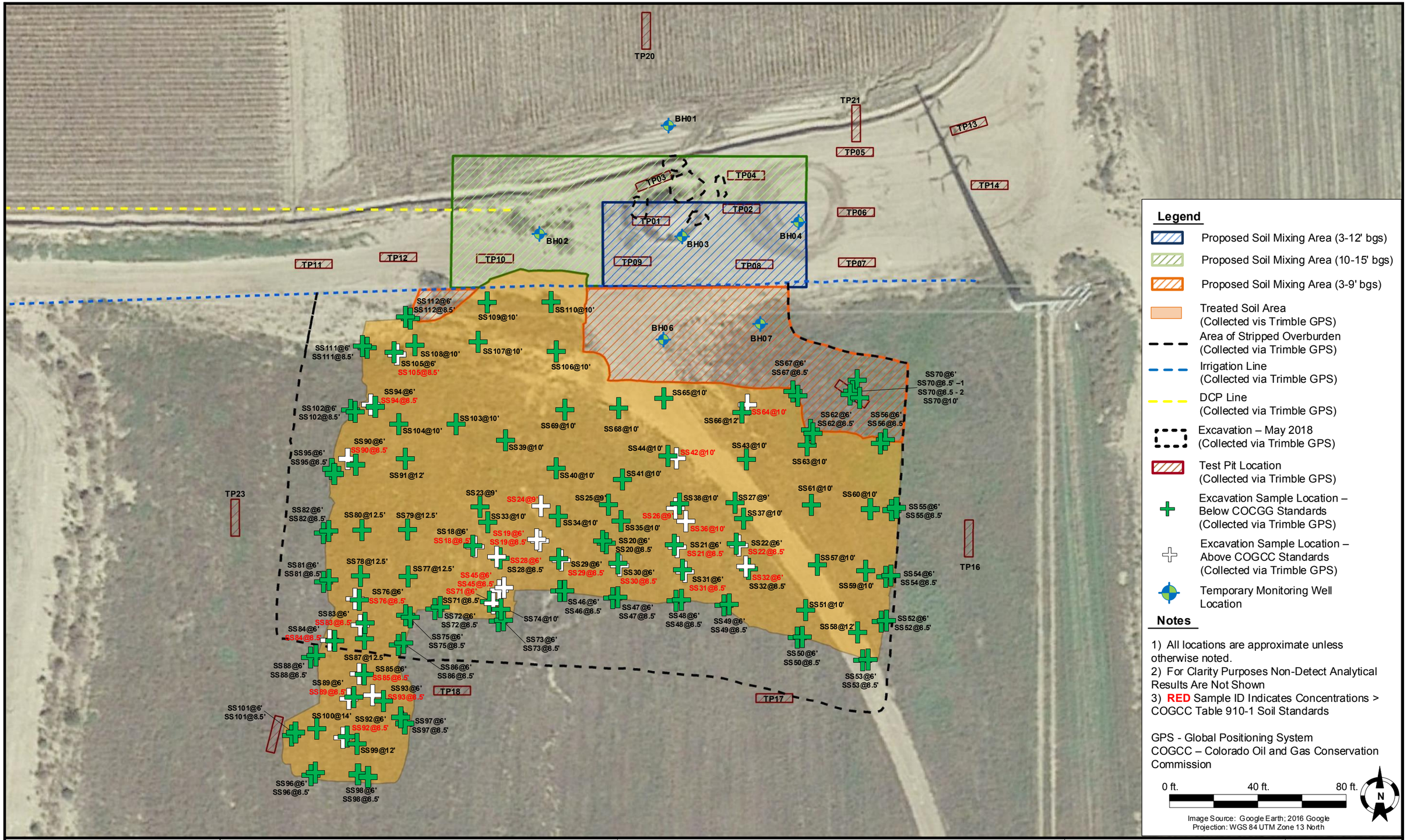
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Denver, CO 80221

Noble Energy – DJ Basin
Bierig 1-26
NENE, Section 26, Township 5 North, Range 66 West
Weld County, Colorado

Treatment Areas Map

FIGURE
4



Legend

- Proposed Soil Mixing Area (3-12' bgs)
- Proposed Soil Mixing Area (10-15' bgs)
- Proposed Soil Mixing Area (3-9' bgs)
- Treated Soil Area (Collected vis Trimble GPS)
- Area of Stripped Overburden (Collected via Trimble GPS)
- Irrigation Line (Collected via Trimble GPS)
- DCP Line (Collected via Trimble GPS)
- Excavation – May 2018 (Collected via Trimble GPS)
- Test Pit Location (Collected via Trimble GPS)
- Excavation Sample Location – Below COCGG Standards (Collected via Trimble GPS)
- Excavation Sample Location – Above COGCC Standards (Collected via Trimble GPS)
- Temporary Monitoring Well Location

Notes

1) All locations are approximate unless otherwise noted.
2) For Clarity Purposes Non-Detect Analytical Results Are Not Shown
3) **RED** Sample ID Indicates Concentrations > COGCC Table 910-1 Soil Standards

GPS - Global Positioning System
COGCC – Colorado Oil and Gas Conservation Commission

0 ft. 40 ft. 80 ft.

N

Image Source: Google Earth; 2016 Google
Projection: WGS 84 UTM Zone 13 North

DATE:	02/07/2019
DESIGNED BY:	ML
DRAWN BY:	TL

TASMAN GEOSCIENCES

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

Noble Energy – DJ Basin
Bierig 1-26
NENE, Section 26, Township 5 North, Range 66 West
Weld County, Colorado

Excavation and Soil Mixing Analytical Results Map (10/22/18 - 01/04/19)

FIGURE 5

ATTACHMENT A

LABORATORY ANALYTICAL DATA REPORTS

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 07, 2019

Brandon Bruns
Tasman Geosciences
6899 Pecos St, Unit C
Denver, CO 80221

RE: Noble - Bierig 1-26

Enclosed are the results of analyses for samples received by Summit Scientific on 01/02/19 18:11-12/20/18 16:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
Laboratory Manager

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@10'	1805248-01	Soil	05/18/18 12:18	05/18/18 17:46
SS03@5'	1805248-02	Soil	05/18/18 12:25	05/18/18 17:46
SS04@4'	1805248-03	Soil	05/18/18 12:31	05/18/18 17:46
SS05@5'	1805248-04	Soil	05/18/18 12:42	05/18/18 17:46
SS06@10'	1805248-05	Soil	05/18/18 12:45	05/18/18 17:46
SS07@10'	1805248-06	Soil	05/18/18 13:51	05/18/18 17:46
SS08@10'	1805248-07	Soil	05/18/18 13:41	05/18/18 17:46
SS09@10'	1805248-08	Soil	05/18/18 13:45	05/18/18 17:46
SS10@5'	1805248-09	Soil	05/18/18 13:30	05/18/18 17:46
TP01@5'	1807314-01	Soil	07/25/18 08:50	07/25/18 18:17
TP01@10'	1807314-02	Soil	07/25/18 08:55	07/25/18 18:17
TP02@5'	1807314-03	Soil	07/25/18 09:20	07/25/18 18:17
TP02@11'	1807314-04	Soil	07/25/18 09:25	07/25/18 18:17
TP03@11'	1807314-05	Soil	07/25/18 09:40	07/25/18 18:17
TP04@10'	1807314-06	Soil	07/25/18 09:55	07/25/18 18:17
TP05@10'	1807314-07	Soil	07/25/18 10:15	07/25/18 18:17
TP06@10'	1807314-08	Soil	07/25/18 11:12	07/25/18 18:17
TP07@8'	1807314-09	Soil	07/25/18 11:38	07/25/18 18:17
TP07@12'	1807314-10	Soil	07/25/18 11:45	07/25/18 18:17
TP08@5'	1807314-11	Soil	07/25/18 14:10	07/25/18 18:17
TP08@10'	1807314-12	Soil	07/25/18 14:15	07/25/18 18:17
TP09@5'	1807314-13	Soil	07/25/18 14:20	07/25/18 18:17
TP09@10'	1807314-14	Soil	07/25/18 14:25	07/25/18 18:17
TP10@10'	1807314-15	Soil	07/25/18 14:35	07/25/18 18:17
TP12@7'	1807314-16	Soil	07/25/18 14:55	07/25/18 18:17
HA SS01@5'	1808011-01	Soil	08/01/18 11:20	08/01/18 18:30
HA SS02@10'	1808011-02	Soil	08/01/18 11:35	08/01/18 18:30

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
6899 Pecos St, Unit C
Denver CO, 80221

Project: Noble - Bierig 1-26
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA SS03@5'	1808011-03	Soil	08/01/18 11:58	08/01/18 18:30
HA SS04@9'	1808011-04	Soil	08/01/18 12:19	08/01/18 18:30
HA SS05@5'	1808011-05	Soil	08/01/18 12:47	08/01/18 18:30
HA SS06@6'	1808011-06	Soil	08/01/18 12:55	08/01/18 18:30
HA SS07@2'	1808011-07	Soil	08/01/18 13:22	08/01/18 18:30
HA SS08@4'	1808011-08	Soil	08/01/18 13:25	08/01/18 18:30
HA SS09@5'	1808011-09	Soil	08/01/18 13:30	08/01/18 18:30
HA SS10@3'	1808011-10	Soil	08/01/18 13:37	08/01/18 18:30
HA SS11@4'	1808011-11	Soil	08/01/18 14:00	08/01/18 18:30
HA SS12@4'	1808011-12	Soil	08/01/18 14:09	08/01/18 18:30
HA SS013@3'	1808011-13	Soil	08/01/18 14:20	08/01/18 18:30
HA SS14@5'	1808011-14	Soil	08/01/18 14:25	08/01/18 18:30
HA SS15@4'	1808011-15	Soil	08/01/18 14:31	08/01/18 18:30
HA SS16@4'	1808011-16	Soil	08/01/18 14:38	08/01/18 18:30
BH01	1810009-01	Water	10/01/18 12:45	10/01/18 18:15
BH02	1810009-02	Water	10/01/18 12:50	10/01/18 18:15
BH03	1810009-03	Water	10/01/18 12:55	10/01/18 18:15
BH04	1810009-04	Water	10/01/18 13:00	10/01/18 18:15
BH05	1810009-05	Water	10/01/18 13:10	10/01/18 18:15
BH06	1810009-06	Water	10/01/18 13:05	10/01/18 18:15
BH07	1810009-07	Water	10/01/18 13:15	10/01/18 18:15
BH08	1810009-08	Water	10/01/18 13:20	10/01/18 18:15
SS17@9.5'	1810269-01	Soil	10/22/18 10:30	10/22/18 18:29
HA01@2.5'	1810281-01	Soil	10/23/18 15:00	10/23/18 18:50
HA02@2.5'	1810281-02	Soil	10/23/18 14:55	10/23/18 18:50
HA03@2.5'	1810281-03	Soil	10/23/18 14:50	10/23/18 18:50
HA04@2.5'	1810281-04	Soil	10/23/18 15:05	10/23/18 18:50

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA05@2.5'	1810281-05	Soil	10/23/18 15:15	10/23/18 18:50
HA05@5'	1810281-06	Soil	10/23/18 15:20	10/23/18 18:50
HA06@2.5'	1810281-07	Soil	10/23/18 15:10	10/23/18 18:50
HA07@2'	1810281-08	Soil	10/23/18 14:45	10/23/18 18:50
HA01	1810281-09	Water	10/23/18 14:00	10/23/18 18:50
HA02	1810281-10	Water	10/23/18 14:10	10/23/18 18:50
HA03	1810281-11	Water	10/23/18 14:20	10/23/18 18:50
HA04	1810281-12	Water	10/23/18 14:30	10/23/18 18:50
0B01	1810302-01	Soil	10/24/18 15:30	10/24/18 16:50
0B02	1810302-02	Soil	10/24/18 15:35	10/24/18 16:50
0B03	1810302-03	Soil	10/24/18 15:40	10/24/18 16:50
0B04	1810302-04	Soil	10/24/18 15:45	10/24/18 16:50
0B05	1810302-05	Soil	10/24/18 15:50	10/24/18 16:50
0B06	1810302-06	Soil	10/24/18 15:55	10/24/18 16:50
0B07	1810302-07	Soil	10/24/18 16:00	10/24/18 16:50
0B08	1810302-08	Soil	10/24/18 16:05	10/24/18 16:50
0B09	1810302-09	Soil	10/24/18 16:10	10/24/18 16:50
0B10	1810302-10	Soil	10/24/18 16:15	10/24/18 16:50
0B11	1810302-11	Soil	10/24/18 16:20	10/24/18 16:50
0B12	1810302-12	Soil	10/24/18 15:00	10/24/18 16:50
0B13	1810302-13	Soil	10/24/18 15:05	10/24/18 16:50
0B14	1810302-14	Soil	10/24/18 15:10	10/24/18 16:50
0B15	1810302-15	Soil	10/24/18 15:15	10/24/18 16:50
0B16	1810302-16	Soil	10/24/18 15:20	10/24/18 16:50
0B17	1810302-17	Soil	10/24/18 15:25	10/24/18 16:50
TP15@6'	1810323-01	Soil	10/25/18 11:00	10/25/18 18:04
TP16@7'	1810323-02	Soil	10/25/18 11:25	10/25/18 18:04

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP17@5.5'	1810323-03	Soil	10/25/18 11:50	10/25/18 18:04
TP17@11'	1810323-04	Soil	10/25/18 12:00	10/25/18 18:04
TP18@7.5'	1810323-05	Soil	10/25/18 12:30	10/25/18 18:04
TP19@6'	1810323-06	Soil	10/25/18 13:00	10/25/18 18:04
TP22@12'	1810336-01	Soil	10/26/18 09:45	10/26/18 18:33
TP22@15'	1810336-02	Soil	10/26/18 09:55	10/26/18 18:33
TP23@10.5'	1810336-03	Soil	10/26/18 10:05	10/26/18 18:33
TP24@5.5'	1810336-04	Soil	10/26/18 10:20	10/26/18 18:33
TP24@11'	1810336-05	Soil	10/26/18 10:30	10/26/18 18:33
TP25@6.5'	1810336-06	Soil	10/26/18 10:50	10/26/18 18:33
TP25@10'	1810336-07	Soil	10/26/18 11:00	10/26/18 18:33
CS01	1810388-01	Soil	10/30/18 10:30	10/30/18 17:45
CS02	1810388-02	Soil	10/30/18 10:35	10/30/18 17:45
CS03	1810388-03	Soil	10/30/18 10:40	10/30/18 17:45
CSO4	1810388-04	Soil	10/30/18 10:45	10/30/18 17:45
CSO5	1810388-05	Soil	10/30/18 10:50	10/30/18 17:45
CSO6	1810388-06	Soil	10/30/18 10:55	10/30/18 17:45
CSO7	1810388-07	Soil	10/30/18 11:00	10/30/18 17:45
CSO8	1810388-08	Soil	10/30/18 11:05	10/30/18 17:45
CSO9	1810388-09	Soil	10/30/18 11:10	10/30/18 17:45
CS10	1810388-10	Soil	10/30/18 11:52	10/30/18 17:45
SS18@6'	1810406-01	Soil	10/31/18 15:30	10/31/18 18:29
SS18@8.5'	1810406-02	Soil	10/31/18 15:35	10/31/18 18:29
SS19@6'	1810406-03	Soil	10/31/18 15:40	10/31/18 18:29
SS19@8.5'	1810406-04	Soil	10/31/18 15:45	10/31/18 18:29
SS20@6'	1810406-05	Soil	10/31/18 15:50	10/31/18 18:29
SS20@8.5'	1810406-06	Soil	10/31/18 15:55	10/31/18 18:29

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS21@6'	1810406-07	Soil	10/31/18 16:00	10/31/18 18:29
SS21@8.5'	1810406-08	Soil	10/31/18 16:05	10/31/18 18:29
SS22@6'	1810406-09	Soil	10/31/18 16:10	10/31/18 18:29
SS22@8.5'	1810406-10	Soil	10/31/18 16:15	10/31/18 18:29
SS23@9'	1810406-11	Soil	10/31/18 16:20	10/31/18 18:29
SS24@9'	1810406-12	Soil	10/31/18 16:25	10/31/18 18:29
SS25@9'	1810406-13	Soil	10/31/18 16:30	10/31/18 18:29
SS26@9'	1810406-14	Soil	10/31/18 16:35	10/31/18 18:29
SS27@9'	1810406-15	Soil	10/31/18 16:40	10/31/18 18:29
SS28@6'	1811005-01	Soil	11/01/18 10:00	11/01/18 17:45
SS28@8.5'	1811005-02	Soil	11/01/18 10:05	11/01/18 17:45
SS29@6'	1811005-03	Soil	11/01/18 10:10	11/01/18 17:45
SS29@8.5'	1811005-04	Soil	11/01/18 10:15	11/01/18 17:45
SS30@6'	1811005-05	Soil	11/01/18 10:20	11/01/18 17:45
SS30@8.5'	1811005-06	Soil	11/01/18 10:25	11/01/18 17:45
SS31@6'	1811005-07	Soil	11/01/18 10:30	11/01/18 17:45
SS31@8.5'	1811005-08	Soil	11/01/18 10:35	11/01/18 17:45
SS32@6'	1811005-09	Soil	11/01/18 10:40	11/01/18 17:45
SS32@8.5'	1811005-10	Soil	11/01/18 10:45	11/01/18 17:45
SS33@10'	1811005-11	Soil	11/01/18 13:00	11/01/18 17:45
SS34@10'	1811005-12	Soil	11/01/18 13:05	11/01/18 17:45
SS35@10'	1811005-13	Soil	11/01/18 13:10	11/01/18 17:45
SS36@10'	1811005-14	Soil	11/01/18 13:15	11/01/18 17:45
SS37@10'	1811005-15	Soil	11/01/18 13:20	11/01/18 17:45
CS03R	1811032-01	Soil	11/02/18 14:20	11/02/18 18:40
CS04R	1811032-02	Soil	11/02/18 14:25	11/02/18 18:40
CS05R	1811032-03	Soil	11/02/18 14:30	11/02/18 18:40

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS38@10'	1811032-04	Soil	11/02/18 14:45	11/02/18 18:40
SS39@10'	1811032-05	Soil	11/02/18 14:50	11/02/18 18:40
SS40@10'	1811032-06	Soil	11/02/18 14:55	11/02/18 18:40
SS41@10'	1811032-07	Soil	11/02/18 15:00	11/02/18 18:40
SS42@10'	1811032-08	Soil	11/02/18 15:05	11/02/18 18:40
SS43@10'	1811032-09	Soil	11/02/18 15:10	11/02/18 18:40
CS11	1811046-01	Soil	11/05/18 12:30	11/05/18 16:21
CS12	1811046-02	Soil	11/05/18 12:35	11/05/18 16:21
CS13	1811046-03	Soil	11/05/18 12:40	11/05/18 16:21
CS14	1811046-04	Soil	11/05/18 12:45	11/05/18 16:21
CS15	1811046-05	Soil	11/05/18 12:50	11/05/18 16:21
CS16	1811046-06	Soil	11/05/18 12:55	11/05/18 16:21
CS17	1811046-07	Soil	11/05/18 13:00	11/05/18 16:21
CS18	1811046-08	Soil	11/05/18 13:15	11/05/18 16:21
CS19	1811046-09	Soil	11/05/18 13:20	11/05/18 16:21
CS20	1811046-10	Soil	11/05/18 13:25	11/05/18 16:21
CS21	1811046-11	Soil	11/05/18 13:30	11/05/18 16:21
CS22	1811046-12	Soil	11/05/18 13:35	11/05/18 16:21
SS44@10'	1811046-13	Soil	11/05/18 13:45	11/05/18 16:21
SS45@6'	1811046-14	Soil	11/05/18 13:50	11/05/18 16:21
SS45@8.5'	1811046-15	Soil	11/05/18 13:55	11/05/18 16:21
SS46@6'	1811046-16	Soil	11/05/18 14:00	11/05/18 16:21
SS46@8.5'	1811046-17	Soil	11/05/18 14:05	11/05/18 16:21
SS47@6'	1811046-18	Soil	11/05/18 14:45	11/05/18 16:21
SS47@8.5'	1811046-19	Soil	11/05/18 14:50	11/05/18 16:21
SS48@6'	1811046-20	Soil	11/05/18 14:55	11/05/18 16:21
SS48@8.5'	1811046-21	Soil	11/05/18 14:55	11/05/18 16:21

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS49@6'	1811046-22	Soil	11/05/18 15:00	11/05/18 16:21
SS49@8.5'	1811046-23	Soil	11/05/18 15:05	11/05/18 16:21
OB18	1811082-01	Soil	11/07/18 14:15	11/07/18 16:40
OB19	1811082-02	Soil	11/07/18 14:20	11/07/18 16:40
OB20	1811082-03	Soil	11/07/18 14:25	11/07/18 16:40
OB21	1811082-04	Soil	11/07/18 14:30	11/07/18 16:40
OB22	1811082-05	Soil	11/07/18 14:35	11/07/18 16:40
OB23	1811082-06	Soil	11/07/18 14:40	11/07/18 16:40
CS21R	1811092-01	Soil	11/08/18 14:10	11/08/18 18:00
CS22R	1811092-02	Soil	11/08/18 14:15	11/08/18 18:00
CS23	1811092-03	Soil	11/08/18 14:35	11/08/18 18:00
CS24	1811092-04	Soil	11/08/18 14:40	11/08/18 18:00
CS25	1811092-05	Soil	11/08/18 14:45	11/08/18 18:00
CS26	1811092-06	Soil	11/08/18 14:50	11/08/18 18:00
OB24	1811096-01	Soil	11/08/18 12:30	11/08/18 18:20
OB25	1811096-02	Soil	11/08/18 12:35	11/08/18 18:20
OB26	1811096-03	Soil	11/08/18 12:40	11/08/18 18:20
OB27	1811096-04	Soil	11/08/18 12:45	11/08/18 18:20
OB28	1811096-05	Soil	11/08/18 12:50	11/08/18 18:20
OB29	1811096-06	Soil	11/08/18 12:55	11/08/18 18:20
OB30	1811096-07	Soil	11/08/18 13:00	11/08/18 18:20
OB31	1811096-08	Soil	11/08/18 13:05	11/08/18 18:20
OB32	1811096-09	Soil	11/08/18 13:10	11/08/18 18:20
OB33	1811096-10	Soil	11/08/18 13:15	11/08/18 18:20
OB34	1811111-01	Soil	11/09/18 10:20	11/09/18 16:00
OB35	1811111-02	Soil	11/09/18 10:25	11/09/18 16:00
OB36	1811111-03	Soil	11/09/18 10:30	11/09/18 16:00

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OB37	1811111-04	Soil	11/09/18 10:35	11/09/18 16:00
OB38	1811111-05	Soil	11/09/18 10:40	11/09/18 16:00
OB39	1811111-06	Soil	11/09/18 10:45	11/09/18 16:00
OB40	1811111-07	Soil	11/09/18 10:50	11/09/18 16:00
OB41	1811111-08	Soil	11/09/18 10:55	11/09/18 16:00
OB42	1811111-09	Soil	11/09/18 12:50	11/09/18 16:00
OB43	1811111-10	Soil	11/09/18 12:55	11/09/18 16:00
OB44	1811111-11	Soil	11/09/18 13:00	11/09/18 16:00
OB45	1811111-12	Soil	11/09/18 13:05	11/09/18 16:00
OB46	1811111-13	Soil	11/09/18 13:10	11/09/18 16:00
OB47	1811111-14	Soil	11/09/18 13:15	11/09/18 16:00
OB48	1811111-15	Soil	11/09/18 13:20	11/09/18 16:00
OB49	1811111-16	Soil	11/09/18 13:25	11/09/18 16:00
OB50	1811111-17	Soil	11/09/18 13:30	11/09/18 16:00
OB51	1811111-18	Soil	11/09/18 13:35	11/09/18 16:00
OB52	1811111-19	Soil	11/09/18 13:40	11/09/18 16:00
CS27	1811123-01	Soil	11/12/18 13:15	11/12/18 16:00
CS28	1811123-02	Soil	11/12/18 13:20	11/12/18 16:00
CS29	1811123-03	Soil	11/12/18 13:25	11/12/18 16:00
CS30	1811123-04	Soil	11/12/18 13:30	11/12/18 16:00
CS31	1811123-05	Soil	11/12/18 13:35	11/12/18 16:00
SS50@6'	1811146-01	Soil	11/13/18 12:35	11/13/18 18:00
SS50@8.5'	1811146-02	Soil	11/13/18 12:40	11/13/18 18:00
SS51@10'	1811146-03	Soil	11/13/18 13:10	11/13/18 18:00
CS32	1811146-04	Soil	11/13/18 15:20	11/13/18 18:00
CS33	1811146-05	Soil	11/13/18 15:25	11/13/18 18:00
SS52@6'	1811158-01	Soil	11/14/18 10:45	11/14/18 16:41

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS52@8.5'	1811158-02	Soil	11/14/18 10:50	11/14/18 16:41
SS53@6'	1811158-03	Soil	11/14/18 11:00	11/14/18 16:41
SS53@8.5'	1811158-04	Soil	11/14/18 11:05	11/14/18 16:41
CS34	1811158-05	Soil	11/14/18 14:30	11/14/18 16:41
CS35	1811158-06	Soil	11/14/18 14:35	11/14/18 16:41
CS36	1811158-07	Soil	11/14/18 14:40	11/14/18 16:41
CS37	1811158-08	Soil	11/14/18 14:45	11/14/18 16:41
SS54@6'	1811177-01	Soil	11/15/18 10:00	11/15/18 16:10
SS54@8.5'	1811177-02	Soil	11/15/18 10:05	11/15/18 16:10
SS55@6'	1811177-03	Soil	11/15/18 10:10	11/15/18 16:10
SS55@8.5	1811177-04	Soil	11/15/18 10:15	11/15/18 16:10
SS56@6'	1811177-05	Soil	11/15/18 11:40	11/15/18 16:10
SS56@8.5'	1811177-06	Soil	11/15/18 11:45	11/15/18 16:10
SS57@10'	1811177-07	Soil	11/15/18 11:50	11/15/18 16:10
SS58@12'	1811177-08	Soil	11/15/18 13:30	11/15/18 16:10
SS59@10'	1811177-09	Soil	11/15/18 13:35	11/15/18 16:10
SS60@10'	1811177-10	Soil	11/15/18 13:50	11/15/18 16:10
SS61@10'	1811177-11	Soil	11/15/18 15:00	11/15/18 16:10
CS38	1811177-12	Soil	11/15/18 14:10	11/15/18 16:10
CS39	1811177-13	Soil	11/15/18 14:15	11/15/18 16:10
CS40	1811177-14	Soil	11/15/18 14:20	11/15/18 16:10
CS41	1811177-15	Soil	11/15/18 14:25	11/15/18 16:10
CS42	1811177-16	Soil	11/15/18 14:30	11/15/18 16:10
CS43	1811238-01	Soil	11/20/18 11:00	11/20/18 18:30
CS44	1811238-02	Soil	11/20/18 11:05	11/20/18 18:30
CS45	1811238-03	Soil	11/20/18 11:10	11/20/18 18:30
CS46	1811238-04	Soil	11/20/18 11:15	11/20/18 18:30

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS47	1811238-05	Soil	11/20/18 11:20	11/20/18 18:30
CS48	1811238-06	Soil	11/20/18 11:25	11/20/18 18:30
CS49	1811238-07	Soil	11/20/18 11:30	11/20/18 18:30
CS50	1811238-08	Soil	11/20/18 11:35	11/20/18 18:30
SS62@6'	1811285-01	Soil	11/26/18 11:00	11/26/18 17:45
SS62@8.5'	1811285-02	Soil	11/26/18 11:05	11/26/18 17:45
SS63@10'	1811285-03	Soil	11/26/18 11:50	11/26/18 17:45
SS64@10'	1811285-04	Soil	11/26/18 14:45	11/26/18 17:45
SS65@10'	1811285-05	Soil	11/26/18 15:30	11/26/18 17:45
SS66@12'	1811300-01	Soil	11/27/18 08:40	11/27/18 15:38
SS67@6'	1811326-01	Soil	11/28/18 08:10	11/28/18 18:20
SS67@8.5'	1811326-02	Soil	11/28/18 08:15	11/28/18 18:20
SS68@10'	1811326-03	Soil	11/28/18 10:50	11/28/18 18:20
SS69@10'	1811326-04	Soil	11/28/18 11:00	11/28/18 18:20
SS70@6'	1811326-05	Soil	11/28/18 11:40	11/28/18 18:20
SS70@8.5'-1	1811326-06	Soil	11/28/18 11:45	11/28/18 18:20
SS70@10'	1811326-07	Soil	11/28/18 11:50	11/28/18 18:20
CS51	1811326-08	Soil	11/28/18 12:30	11/28/18 18:20
CS52	1811326-09	Soil	11/28/18 12:35	11/28/18 18:20
CS53	1811326-10	Soil	11/28/18 12:40	11/28/18 18:20
CS54	1811326-11	Soil	11/28/18 12:45	11/28/18 18:20
CS55	1811326-12	Soil	11/28/18 12:50	11/28/18 18:20
CS56	1811326-13	Soil	11/28/18 12:55	11/28/18 18:20
CS57	1811326-14	Soil	11/28/18 13:00	11/28/18 18:20
CS58	1811326-15	Soil	11/28/18 13:05	11/28/18 18:20
CS59	1811326-16	Soil	11/28/18 13:10	11/28/18 18:20
SS71@6'	1812007-01	Soil	12/03/18 09:35	12/03/18 19:22

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS71@8.5'	1812007-02	Soil	12/03/18 09:40	12/03/18 19:22
SS72@6'	1812007-03	Soil	12/03/18 09:45	12/03/18 19:22
SS72@8.5'	1812007-04	Soil	12/03/18 09:50	12/03/18 19:22
CS52R	1812007-06	Soil	12/03/18 14:45	12/03/18 19:22
SS73@6'	1812023-01	Soil	12/04/18 10:00	12/04/18 14:46
SS73@8.5'	1812023-02	Soil	12/04/18 10:05	12/04/18 14:46
SS74@10'	1812023-03	Soil	12/04/18 09:40	12/04/18 14:46
CS51R2	1812066-01	Soil	12/06/18 10:10	12/06/18 18:00
CS52R2	1812066-02	Soil	12/06/18 10:15	12/06/18 18:00
CS53R2	1812066-03	Soil	12/06/18 10:20	12/06/18 18:00
CS54R2	1812066-04	Soil	12/06/18 10:25	12/06/18 18:00
CS55R2	1812066-05	Soil	12/06/18 10:30	12/06/18 18:00
CS56R2	1812066-06	Soil	12/06/18 10:35	12/06/18 18:00
CS57R2	1812066-07	Soil	12/06/18 10:40	12/06/18 18:00
CS58R2	1812066-08	Soil	12/06/18 10:45	12/06/18 18:00
CS59R2	1812066-09	Soil	12/06/18 10:50	12/06/18 18:00
CS60	1812115-01	Soil	12/11/18 13:20	12/11/18 16:42
CS61	1812115-02	Soil	12/11/18 13:25	12/11/18 16:42
CS62	1812115-03	Soil	12/11/18 13:30	12/11/18 16:42
CS63	1812115-04	Soil	12/11/18 13:35	12/11/18 16:42
CS64	1812115-05	Soil	12/11/18 13:40	12/11/18 16:42
SS75@6'	1812115-06	Soil	12/11/18 08:30	12/11/18 16:42
SS75@8.5'	1812115-07	Soil	12/11/18 08:35	12/11/18 16:42
SS76@6'	1812115-08	Soil	12/11/18 14:30	12/11/18 16:42
SS76@8.5'	1812115-09	Soil	12/11/18 14:35	12/11/18 16:42
SS77@12.5'	1812115-10	Soil	12/11/18 14:50	12/11/18 16:42
SS78@12.5'	1812115-11	Soil	12/11/18 14:40	12/11/18 16:42

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS79@12.5'	1812115-12	Soil	12/11/18 14:55	12/11/18 16:42
SS80@12.5'	1812115-13	Soil	12/11/18 14:45	12/11/18 16:42
SS81@6'	1812115-14	Soil	12/11/18 15:00	12/11/18 16:42
SS81@8.5'	1812115-15	Soil	12/11/18 15:10	12/11/18 16:42
SS82@6'	1812115-16	Soil	12/11/18 15:20	12/11/18 16:42
SS82@8.5'	1812115-17	Soil	12/11/18 15:30	12/11/18 16:42
CS65	1812141-01	Soil	12/12/18 13:00	12/12/18 15:02
CS66	1812141-02	Soil	12/12/18 13:05	12/12/18 15:02
CS67	1812141-03	Soil	12/12/18 13:10	12/12/18 15:02
CS68	1812141-04	Soil	12/12/18 13:15	12/12/18 15:02
CS69	1812141-05	Soil	12/12/18 13:20	12/12/18 15:02
CS70	1812141-06	Soil	12/12/18 13:25	12/12/18 15:02
CS71	1812141-07	Soil	12/12/18 13:30	12/12/18 15:02
CS53R3	1812141-08	Soil	12/12/18 13:55	12/12/18 15:02
CS55R3	1812141-09	Soil	12/12/18 13:50	12/12/18 15:02
SS83@6'	1812141-10	Soil	12/12/18 08:15	12/12/18 15:02
SS83@8.5'	1812141-11	Soil	12/12/18 08:20	12/12/18 15:02
SS84@6'	1812162-01	Soil	12/13/18 13:20	12/13/18 15:05
SS84@8.5'	1812162-02	Soil	12/13/18 13:25	12/13/18 15:05
SS85@6'	1812162-03	Soil	12/13/18 13:30	12/13/18 15:05
SS85@8.5'	1812162-04	Soil	12/13/18 13:35	12/13/18 15:05
SS86@6'	1812162-05	Soil	12/13/18 13:40	12/13/18 15:05
SS86@8.5'	1812162-06	Soil	12/13/18 13:45	12/13/18 15:05
SS87@12.5'	1812162-07	Soil	12/13/18 13:50	12/13/18 15:05
SS88@6'	1812185-01	Soil	12/14/18 09:10	12/14/18 18:30
SS88@8.5'	1812185-02	Soil	12/14/18 09:15	12/14/18 18:30
SS89@6'	1812185-03	Soil	12/14/18 08:40	12/14/18 18:30

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



Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS89@8.5'	1812185-04	Soil	12/14/18 08:45	12/14/18 18:30
SS90@6'	1812201-01	Soil	12/17/18 08:25	12/17/18 15:23
SS90@8.5'	1812201-02	Soil	12/17/18 08:30	12/17/18 15:23
SS91@12'	1812201-03	Soil	12/17/18 09:00	12/17/18 15:23
SS92@6'	1812201-04	Soil	12/17/18 09:20	12/17/18 15:23
SS92@8.5'	1812201-05	Soil	12/17/18 09:25	12/17/18 15:23
SS93@6'	1812201-06	Soil	12/17/18 09:35	12/17/18 15:23
SS93@8.5'	1812201-07	Soil	12/17/18 09:40	12/17/18 15:23
SS94@6'	1812201-08	Soil	12/17/18 10:05	12/17/18 15:23
SS94@8.5'	1812201-09	Soil	12/17/18 10:10	12/17/18 15:23
CS72	1812201-10	Soil	12/17/18 12:00	12/17/18 15:23
CS73	1812201-11	Soil	12/17/18 12:05	12/17/18 15:23
CS74	1812201-12	Soil	12/17/18 12:10	12/17/18 15:23
CS75	1812201-13	Soil	12/17/18 12:15	12/17/18 15:23
SS95@6'	1812221-01	Soil	12/18/18 11:45	12/18/18 18:00
SS95@8.5'	1812221-02	Soil	12/18/18 10:30	12/18/18 18:00
SS96@6'	1812221-03	Soil	12/18/18 12:00	12/18/18 18:00
SS96@8.5'	1812221-04	Soil	12/18/18 12:05	12/18/18 18:00
SS97@6'	1812221-05	Soil	12/18/18 13:10	12/18/18 18:00
SS97@8.5'	1812221-06	Soil	12/18/18 13:15	12/18/18 18:00
SS98@6'	1812221-07	Soil	12/18/18 14:30	12/18/18 18:00
SS98@8.5'	1812221-08	Soil	12/18/18 14:35	12/18/18 18:00
SS99@12'	1812221-09	Soil	12/18/18 14:40	12/18/18 18:00
SS100@14'	1812221-10	Soil	12/18/18 14:50	12/18/18 18:00
SS101@6'	1812221-11	Soil	12/18/18 15:00	12/18/18 18:00
SS101@8.5'	1812221-12	Soil	12/18/18 15:05	12/18/18 18:00
SS102@6'	1812261-01	Soil	12/20/18 08:30	12/20/18 16:43

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



Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS102@8.5'	1812261-02	Soil	12/20/18 08:45	12/20/18 16:43
SS103@10'	1812261-03	Soil	12/20/18 10:00	12/20/18 16:43
SS14@10'	1812261-04	Soil	12/20/18 10:15	12/20/18 16:43
SS105@6'	1901004-01	Soil	01/02/19 11:20	01/02/19 18:11
SS105@8.5'	1901004-02	Soil	01/02/19 11:25	01/02/19 18:11
SS106@10'	1901004-03	Soil	01/02/19 11:40	01/02/19 18:11
SS107@11'	1901004-04	Soil	01/02/19 11:45	01/02/19 18:11
SS108@12'	1901004-05	Soil	01/02/19 11:50	01/02/19 18:11
CS76	1901004-06	Soil	01/02/19 13:00	01/02/19 18:11
CS77	1901004-07	Soil	01/02/19 13:05	01/02/19 18:11
CS78	1901004-08	Soil	01/02/19 13:10	01/02/19 18:11
CS79	1901004-09	Soil	01/02/19 13:15	01/02/19 18:11
CS80	1901004-10	Soil	01/02/19 13:20	01/02/19 18:11
CS81	1901004-11	Soil	01/02/19 13:25	01/02/19 18:11
CS82	1901004-12	Soil	01/02/19 13:30	01/02/19 18:11
CS83	1901004-13	Soil	01/02/19 13:35	01/02/19 18:11
CS84	1901004-14	Soil	01/02/19 13:40	01/02/19 18:11
CS85	1901004-15	Soil	01/02/19 13:45	01/02/19 18:11
CS86	1901004-16	Soil	01/02/19 13:50	01/02/19 18:11
CS87	1901004-17	Soil	01/02/19 13:55	01/02/19 18:11
CS88	1901004-18	Soil	01/02/19 14:00	01/02/19 18:11
CS89	1901004-19	Soil	01/02/19 14:05	01/02/19 18:11
SS109@10'	1901014-01	Soil	01/03/19 09:35	01/03/19 17:00
SS110@10'	1901014-02	Soil	01/03/19 09:40	01/03/19 17:00
SS111@6'	1901014-03	Soil	01/03/19 12:30	01/03/19 17:00
SS111@8.5'	1901014-04	Soil	01/03/19 12:35	01/03/19 17:00
SS112@6'	1901014-05	Soil	01/03/19 12:40	01/03/19 17:00

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



Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS112@8.5'	1901014-06	Soil	01/03/19 12:45	01/03/19 17:00
CS90	1901137-01	Soil	01/10/19 11:00	01/10/19 17:50
CS91	1901137-02	Soil	01/10/19 11:05	01/10/19 17:50
CS92	1901137-03	Soil	01/10/19 11:10	01/10/19 17:50
CS93	1901137-04	Soil	01/10/19 11:15	01/10/19 17:50
CS94	1901137-05	Soil	01/10/19 11:20	01/10/19 17:50
CS95	1901137-06	Soil	01/10/19 11:25	01/10/19 17:50
CS96	1901137-07	Soil	01/10/19 11:30	01/10/19 17:50
CS97	1901137-08	Soil	01/10/19 11:35	01/10/19 17:50
CS98	1901137-09	Soil	01/10/19 11:40	01/10/19 17:50
CS99	1901137-10	Soil	01/10/19 11:45	01/10/19 17:50
CS100	1901137-11	Soil	01/10/19 11:50	01/10/19 17:50
CS101	1901137-12	Soil	01/10/19 11:55	01/10/19 17:50
CS102	1901137-13	Soil	01/10/19 12:00	01/10/19 17:50
CS103	1901137-14	Soil	01/10/19 12:05	01/10/19 17:50

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CASE NARRATIVE

The batch QC 1811284 failed it's initial run, however a report was sent prior to a rerun of the QC samples. The surrogate recoveries in the field samples and the continuing calibration verification passed, therefore rerun of the field samples was determined unnecessary. This report is a revised report containing the re-run QC samples.

CASE NARRATIVE

The original report had an incorrect sample ID, this revised report has the corrected ID.

1805248

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: TASMAN / NOBLE
Address:
City/State/Zip:
Phone: 970.210.6571 Fax:
Sampler Name: T. UCHTENBERG

Project Manager: BRANDON BRUNS : INVOICE JACOB EVANS
E-Mail: BBRUNS@TASMAN-GEO.COM
Project Name: BIERIG 1-26
Project Number: —

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 - GRO/BTEX	8015 - DRO	+ Naphthalene + EDB						Special Instructions
SS01@10'	5/18/18	1216	1			X			X			X	X	+						* per client
SS03@5'		1225																		
SS04@4'		1231																		
SS05@5'		1242																		
SS06@10'		1245																		
SS07@10'		1351																		
SS08@10'		1341																		
SS09@10'		1345																		
SS10@5'		1330																		

Relinquished by:	Date/Time: 5/18/18 1746	Received by:	Date/Time: 5/18/18 1746	**Turn Around Time (Check)** Same Day ☐ 72 Hours ☐ 24 Hours ☐ Standard ☒ 48 Hours ☐
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:**
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Temperature Upon Receipt: 7.2 Intact: Yes ☒ No ☐

Notes:
on ice

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

807314.1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Berg 1-26
Phone:	979-255-4235 Fax: -	Project Number:	N/A
Sampler Name:	Max Garza		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
TP01@5'	7/25/18	0850	1			X			X				X	X						
TP01@10'	↓	0855	↓			↓			↓				↓	↓						
TP02@5'		0920																		
TP02@11'		0925																		
TP03@11'		0940																		
TP04@10'		0955																		
TP05@10'		1015																		
TP06@10'		1112																		
TP07@8'		1138																		
TP07@12'	↓	1145	↓			↓			↓				↓	↓						

Relinquished by:	Date/Time: 7.25.18 1820	Received by:	Date/Time: 7.25.18 1820	Turn Around Time (Check): Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 9.4
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes No

Notes:

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303-277-9310 ♦ 303-374-5933 Fax

1807314.2

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Berry 1-26
Phone:	979-255-4235 Fax: -	Project Number:	N/A
Sampler Name:	Max Garza		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
TP08@5'	7/25/18	1410	1			X			X				X	X						
TP08@10'	↓	1415	↓			↓			↓				↓	↓						
TP09@5'		1420																		
TP09@10'		1425																		
TP10@10'		1435																		
TP12@7'	↓	1455	↓			↓			↓				↓	↓						

Relinquished by:	Date/Time: 7.25.18 1820	Received by:	Date/Time: 7.25.18 1820	**Turn Around Time (Check)** Same Day [X] 24 Hours [ ] 48 Hours [ ] 72 Hours [ ] Standard [ ]
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 9.4
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes [ ] No [ ]

Notes:

Summit Scientific

1808011.1

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Bierig 1-26
Phone:	979-255-4235 Fax: -	Project Number:	N/A
Sampler Name:	Max Garza		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS01@5'	8/1/18	1120	1			X			X				X	X						Hold: SS01@5', SS03@5', SS05@5', SS07@2', SS13@3'
SS02@10'		1135																		
SS03@5'		1158																		
SS04@9'		1219																		
SS05@5'		1247																		
SS06@6'		1255																		
SS07@2'		1322																		
SS08@4'		1325																		
SS09@5'		1330																		
SS10@3'		1337																		

Relinquished by: MK	Date/Time: 8/1/18 1030	Received by:	Date/Time: 8.1.18 1850	**Turn Around Time (Check)** Same Day ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Standard ☒
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 9.3
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes ☒ No ☐

Notes:

Summit Scientific

1808011.2

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Rivers 1-26
Phone:	979-255-4235 Fax: -	Project Number:	N/A
Sampler Name:	Max Garza		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Special Instructions
SS 11@4'	8/1/18	1400	1			X			X				X	X		Hold:
SS12@4'		1409														SS01@5'
SS 13@3'		1420														SS03@5'
SS14@5'		1425														SS05@5'
SS 15@4'		1431														SS07@2'
SS 16@4'		1438														SS13@3'

Relinquished by: Mx G	Date/Time: 8/1/18	Received by:	Date/Time:	Turn Around Time (Check): Same Day ☐, 24 Hours ☐, 48 Hours ☐, 72 Hours ☐, Standard ☒
Relinquished by:	Date/Time:	Received by:	Date/Time:	Notes:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: ____ Intact: Yes ☐ No ☐

1810009

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Berg 1-26
Phone: 979-255-4235	Fax: -	Project Number:	N/A
Sampler Name:	Max Garza		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
BH01	10/1/18	12 45	3			X		X				X								
BH02		12 50																		
BH03		12 55																		
BH04		13 00																		
BH05		13 10																		
BH06		13 05																		
BH07		13 15																		
BH08	↓	13 20	↓			↓		↓				↓								

Relinquished by: Max G	Date/Time: 10/1/18 1815	Received by:	Date/Time: 10.1.18 1815	**Turn Around Time (Check)** Same Day ☐ 72 Hours ☒ 24 Hours ☐ Standard ☐ 48 Hours ☐
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 3.7 Intact: Yes ☑ No ☐

Notes:

1810269

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303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Noble/ Tasman
Address:
City/State/Zip:
Phone: 720-616-8383 Fax:
Sampler Name: J Whritenour

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Bierig 1-26
Project Number:

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 6BTEX+	8015 DRO							Special Instructions
SS17 @ 9.5'	10/22/18	1030	1			X			X			X	X							

Relinquished by:	Date/Time: 10/22/18 1840	Received by:	Date/Time: 10.22.18 1840
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 10.0
Intact: Yes X No

Notes:

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303-277-9310 ♦ 303-374-5933 Fax

1810251

Page 1 of 2

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Bierig 1-26
Phone: 979-255-4235	Fax: -	Project Number:	N/A
Sampler Name:	Max Garza		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Special Instructions
HA01 @ 2.5'	10/23/18	1500	1			X			X				X	X		
HA02 @ 2.5'		1455	1										X	X		
HA03 @ 2.5'		1450	1										X	X		
HA04 @ 2.5'		1505	1										X	X		
HA05 @ 2.5'		1515	1										X	X		
HA05 @ 5'		1520	1										X	X		
HA06 @ 2.5		1510	1										X	X		
HA 07 @ 2'		1445	1										X	X		
HA01		1400	3			X		X				X				
HA02		1410	3			X		X				X				

Relinquished by:	Date/Time: 10/23/18 1850	Received by:	Date/Time: 10.23.18 1850
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 5.6
Intact: Yes ✓ No

Notes:

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

1810281.2

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Bering 1-76
Phone:	979-255-4235 Fax: -	Project Number:	N/A
Sampler Name:	Max Garza		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
HA03	10/23/18	1420	3			X		X				X								
HA04	"	1430	3			X		X				X								

Relinquished by:	Date/Time: 10/23/18 1650	Received by:	Date/Time: 10.25.18 1850	**Turn Around Time (Check)**: Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 5.6; Intact: Yes ✓ No
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Notes:

1810302.1

Summit Scientific

S_2

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

Client: Tasman/Noble
Address: 6899 Pecos St. Unit C
City/State/Zip: Denver, CO 80221
Phone: 720 616 8783
Sampler Name: Jacob Whittemore

Project Manager: Brandon Bruns, Invoice Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Bicrig I-76
Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative: HCl	Preservative: HNO3	Preservative: None	Preservative: Other	Matrix: Water	Matrix: Soil	Matrix: Air-Canister #	Matrix: Other	Analysis Requested: 8260 GBTEX	Analysis Requested: 8015 DRO	Analysis Requested: PH, EC, SAR	Special Instructions
1	OB01	10/24/18	1530	1			X			X			X	X	X	
2	OB02		1535	1												
3	OB03		1540	1												
4	OB04		1546	1												
5	OB05		1550	1												
6	OB06		1555	1												
7	OB07		1600	1												
8	OB08		1605	1												
9	OB09		1610	1												
10	OB10		1615	1												

Relinquished by:	Date/Time:	Received by:	Date/Time:
	10/24/18 1650		10.24.18 1650
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours —
48 hours —
72 hours —
Standard —

Sample Integrity:
Temperature Upon Receipt: 11.6
Samples Intact: Yes No

Notes:

1810302-2

Summit Scientific

S_2

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

Client: Noble / Tasman
Project Manager: Brandon Burns, Enviro Jacob Evans
Address:
E-Mail: bburns@tasman-geo.com
City/State/Zip:
Phone: 720-616-8383
Project Name: Brerig 26
Sampler Name: J.W.
Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative: HCl	Preservative: HNO3	Preservative: None	Preservative: Other	Matrix: Water	Matrix: Soil	Matrix: Air-Canister #	Matrix: Other	Analysis Requested: 8260 GBTEX N	Analysis Requested: 6015 DRO	Analysis Requested: 14 EGSAR	Special Instructions
1	OB11	10/24/18	1620	1			X			X			X	X	X	
2	OB12		1500	1												
3	OB13		1505	1												
4	OB14		1510	1												
5	OB15		1515	1												
6	OB16		1520	1												
7	OB17		1525	1												
8																
9																
10																

Relinquished by:	Date/Time:	Received by:	Date/Time:
	10/24/18 1650		10.24.18 1650
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours ___
48 hours ___
72 hours ___
Standard ___

Sample Integrity:
Temperature Upon Receipt: 11.6
Samples Intact: (Yes) No

Notes:

Summit Scientific

S_2

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

1810323

Page 1 of 1

Client: Noble/Tasman
Address: 6869 Pecos St, Unit C
City/State/Zip: Denver Co 80221
Phone: 720 616 6383
Sampler Name: Jake Whitehouse

Project Manager: Brandon Bruns, Invoice Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Bierig 1-26
Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative: HCl	Preservative: HNO3	Preservative: None	Preservative: Other	Matrix: Water	Matrix: Soil	Matrix: Air-Canister #	Matrix: Other	Analysis Requested: 8260 6BTEX	Analysis Requested: 8015 DRO	Special Instructions
1	TP15 @ 6'	10-25-18	1100	1						X			X	X	
2	TP16 @ 7'		1125	1											
3	TP17 @ 5.5'		1150	1											
4	TP17 @ 11'		1200	1											
5	TP18 @ 7.5'		1230	1											
6	TP19 @ 6'		1300	1											
7															
8															
9															
10															

Relinquished by:	Date/Time:	Received by:	Date/Time:
	10/25/18		
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours ___
48 hours ___
72 hours ___
Standard ___

Sample Integrity:
Temperature Upon Receipt: 7.2
Samples Intact: Yes No

Notes:

1810336

Summit Scientific

S_2

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

Page 1 of 1

Client: Noble/Tasman
Address: 6899 Pecos St, Unit C
City/State/Zip: Denver CO 80221
Phone: 720 616 4383
Sampler Name: Jake Whitenaur

Project Manager: Brandon Burns, Trevor Trudy Evans
E-Mail: bburns@tasman-geo.com
Project Name: Biering 1-26
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 GBTEX	8015 DRO							
1	TP22 @ 12'	10/22/18	0945	1			X			X			X	X							
2	TP22 @ 15'		0955	1																	
3	TP23 @ 10.5'		1005	1																	
4	TP24 @ 5.5'		1020	1																	
5	TP24 @ 11'		1030	1																	
6	TP25 @ 6.5'		1050	1																	
7	TP25 @ 10'	✓	1100	1			✓			✓			✓	✓							
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
	10/26/18 1820		10-26-18 1820
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours ___
48 hours ___
72 hours ___
Standard ___

Sample Integrity:
Temperature Upon Receipt: 6.9
Samples Intact: (Yes) No

Notes:

1810388

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Noble/ Tasman
Address:
City/State/Zip:
Phone: 720-616-8383 Fax:
Sampler Name: J Whritenour

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Bierig 1-26
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 GBTEX	Analyze For: 8015 DRO	Special Instructions
CS01	10/30/18	1030	1			X			X			X	X	
CS02		1035	1											
CS03		1040	1											
CS04		1045	1											
CS05		1050	1											
CS06		1055	1											
CS07		1100	1											
CS08		1105	1											
CS09		1110	1											
CS10		1152	1											

Relinquished by: Date/Time: 10/30/18 1810
Received by: Date/Time: 10.30.18 1810
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:

Turn Around Time (Check)
Same Day [X] 72 Hours [ ]
24 Hours [ ] Standard [ ]
48 Hours [ ]

Sample Integrity:
Temperature Upon Receipt: 5.1
Intact: Yes [ ] No [ ]

Notes:

1810406.1

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client: Noble/ Tasman
Address:
City/State/Zip:
Phone: 720-616-8383 Fax:
Sampler Name: J Whritenour

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Berry 1-26
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 GBTEXN	Analyze For: 8015 DRO	Special Instructions
SS18@6'	10-31-18	1530	1			X			X			X	X	
SS18@8.5'		1535	1											
SS19@6'		1540	1											
SS19@8.5'		1545	1											
SS20@6'		1550	1											
SS20@8.5'		1555	1											
SS21@6'		1600	1											
SS21@8.5'		1605	1											
SS22@6'		1610	1											
SS22@8.5'		1615	1											

Relinquished by: Date/Time: 10/31/18 1815
Received by: Date/Time: 10.31.18 1815
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:

Turn Around Time (Check)
Same Day X
24 Hours
48 Hours
72 Hours
Standard

Sample Integrity:
Temperature Upon Receipt: 8.5
Intact: Yes Y No

Notes:

1810406.2

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 2 of 2

Client: Noble/ Tasman
Address:
City/State/Zip:
Phone: 720-616-8383 Fax:
Sampler Name: J Whritenour

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Berry 1-26
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 GBTEX	Analyze For: 8015 DRO	Special Instructions
SS23@9'	10/31/18	1620	1			X			X			X	X	
SS24@9'		1625	1											
SS25@9'		1630	1											
SS26@9'		1635	1											
SS27@9'	↓	1640	1			↓			↓			↓	↓	

Relinquished by: Date/Time: 10/31/18 1815
Received by: Date/Time: 10.31.18 1815
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:

Turn Around Time (Check)
Same Day [X] 72 Hours [ ]
24 Hours [ ] Standard [ ]
48 Hours [ ]

Sample Integrity:
Temperature Upon Receipt: 0.5
Intact: Yes [X] No [ ]

Notes:

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

1811005.1

Client: Noble/ Tasman
Address:
City/State/Zip:
Phone: 720-616-8383 Fax:
Sampler Name: J Whritenour

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Berry 1-26
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 GBTEX+N	Analyze For: 8015 DRO	Special Instructions
SS26@6'	11/1/18	1000	1			X			X			X	X	
SS28@8.5'		1005	1											
SS29@6'		1010	1											
SS29@8.5'		1015	1											
SS30@6'		1020	1											
SS30@8.5'		1025	1											
SS31@6'		1030	1											
SS31@8.5'		1035	1											
SS32@6'		1040	1											
SS32@8.5'		1045	1											

Relinquished by: Date/Time: 11/1/18 1745
Received by: Date/Time: 11.1.18 1745
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:

Turn Around Time (Check)
Same Day [X] 72 Hours [ ]
24 Hours [ ] Standard [ ]
48 Hours [ ]

Sample Integrity:
Temperature Upon Receipt: 7.7
Intact: Yes [X] No [ ]

Notes:

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

1811005.2

Page 1 of 2

Client: Noble/ Tasman
Address:
City/State/Zip:
Phone: 720-616-8383 Fax:
Sampler Name: J Whritenour

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Bierig 1-26
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: $8260 BTEX N	Analyze For: 8015 DRO	Special Instructions
SS33@10'	11/1/18	1300	1			X			X			X	X	
SS34@10'		1305	1											
SS35@10'		1310	1											
SS36@10'		1315	1											
SS37@10'		1320	1											

Relinquished by: Date/Time: 11/1/18 1745
Received by: Date/Time: 11.1.18 1745
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:

Turn Around Time (Check)
Same Day X
24 Hours
48 Hours
72 Hours
Standard

Sample Integrity:
Temperature Upon Receipt: 7.7
Intact: Yes ✓ No

Notes:

1811032

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone:	970.210.6571 Fax: -	Project Number:	—
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
CS03R	11/2/18	1420	1			X			X				X	X						
CS04R		1425																		
CS05R		1430																		
SS38010'		1445																		
SS39010'		1450																		
SS40010'		1455																		
SS41010'		1500																		
SS42010'		1505																		
SS43010'		1510																		

Relinquished by:	Date/Time: 11.2.18 1840	Received by:	Date/Time: 11.2.18 1840	**Turn Around Time (Check)** Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 9.7
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes ✓ No

Notes:

1811046.1

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	T. Lichtenberg		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Special Instructions
CS11	11/5/18	1230	1			X			X				X	X		
CS12	"	1235	"			"			"				"	"		
CS13		1240														
CS14		1245														
CS15		1250														
CS16		1255														
CS17		1300														
CS18		1315														
CS19		1320														
CS20		1325														

Relinquished by:	Date/Time: 11.5.18 1626	Received by:	Date/Time: 11.5.18 1626
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 6.2
Intact: Yes X No

Notes:

1811046-2

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Berg 1-26
Phone: 970.210.6571	Fax: -	Project Number:	—
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
CS21	11/5/18	1330	1			X			X				X	X						
CS22		1335																		
SS44010'		1345																		
SS45006'		1350																		
SS45085'		1355																		
SS46006'		1400																		
SS46085'		1405																		
SS47006'		1445																		
SS47085'		1450																		
SS48006'		1455																		

Relinquished by:	Date/Time: 11.5.18 1626	Received by:	Date/Time: 11.5.18 1626	**Turn Around Time (Check)**
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day [X] 72 Hours [ ]
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	24 Hours [ ] Standard [ ]
				48 Hours [ ]
				Sample Integrity:
				Temperature Upon Receipt: 6.2
				Intact: Yes [X] No [ ]

Notes:

1811046-3

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	B1621G T-26
Phone: 970.210.6571	Fax: -	Project Number:	—
Sampler Name:	T. Lichtenberg		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Special Instructions
SS48085'	11/5/18	1455	1			X			X				X	X		
SS4906'	1	1500	1			1			1				1	1		
SS49085'	1	1505	1			1			1				1	1		

Relinquished by:	Date/Time: 11.5.18 1626	Received by:	Date/Time: 11-5-18 1626	**Turn Around Time (Check)**
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day [X] 72 Hours [ ] 24 Hours [ ] Standard [ ] 48 Hours [ ]
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 6.2 Intact: Yes [✓] No [ ]

Notes:

Summit Scientific

1811082

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	—
Sampler Name:	T. Lichtenberg		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Analyze For:	Analyze For:	Analyze For:	Analyze For:	Special Instructions
OB18	11/7/18	1415	1			X			X				X	X	X					
OB19	"	1420	1			"			"				X	X	X					
OB20	"	1425	1			"			"				X	X	X					
OB21	"	1430	1			"			"				X	X	X					
OB22	"	1435	1			"			"				X	X	X					
OB23	"	1440	1			"			"				X	X	X					

Relinquished by:	Date/Time: 11.7.18 1640	Received by:	Date/Time: 11.7.18 1640	**Turn Around Time (Check)**
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day ☐ 72 Hours ☐ 24 Hours ☐ Standard ☑ 48 Hours ☐
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 7.5 Intact: Yes ☑ No ☐

Notes:

Summit Scientific

1811092

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIEG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
CS21R	11/8/18	1410	1			X			X				X	X						
CS22R		1415																		
CS23		1435																		
CS24		1440																		
CS25		1445																		
CS26		1450																		

Relinquished by:	Date/Time: 11.8.18 1815	Received by:	Date/Time: 11.8.18 1815	Turn Around Time (Check): Same Day [X], 24 Hours [ ], 48 Hours [ ], 72 Hours [ ], Standard [ ]
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Temperature Upon Receipt: 10.6 Intact: Yes [✓] No [ ]

Notes:

Summit Scientific

1811096

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Bisbee 1-20
Phone:	970.210.6571 Fax: -	Project Number:	
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
OB24	11/8/18	1230	1			X			X				X	X	X					
OB25		1235																		
OB26		1240																		
OB27		1245																		
OB28		1250																		
OB29		1255																		
OB30		1300																		
OB31		1305																		
OB32		1310																		
OB33		1315																		

Relinquished by:	Date/Time: 11.8.18 1820	Received by:	Date/Time: 11.8.18 1820	**Turn Around Time (Check)** Same Day ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Standard ☒
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 10.6 Intact: Yes ☑ No ☐

Notes:

Summit Scientific

1811111.1

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
OB34	11/9/18	1020	1			X			X				X	X	X					
OB35		1025																		
OB36		1030																		
OB37		1035																		
OB38		1040																		
OB39		1045																		
OB40		1050																		
OB41		1055																		
OB42		1250																		
OB43		1255																		

Relinquished by:	Date/Time: 11.9.18 1600	Received by:	Date/Time: 11.9.18 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day		72 Hours	
24 Hours		Standard	X
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 6.5
Intact: Yes X No

Notes:

Summit Scientific

1811111.2

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
OB44	11/9/18	1300	1			X			X				X	X	X					
OB45		1305																		
OB46		1310																		
OB47		1315																		
OB48		1320																		
OB49		1325																		
OB50		1330																		
OB51		1335																		
OB52		1340																		

Relinquished by:	Date/Time: 11-9-18 1600	Received by:	Date/Time: 11.9.18 1600	**Turn Around Time (Check)**
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day ☐ 72 Hours ☐ 24 Hours ☐ Standard ☑ 48 Hours ☐
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 6.5 Intact: Yes ☑ No ☐

Notes:

Summit Scientific

1811123

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone:	970.210.6571 Fax: -	Project Number:	—
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
CS27	11/12/18	1315	1			X			X				X	X						
CS28	"	1320	"			"			"				"	"						
CS29	"	1325	"			"			"				"	"						
CS30	"	1330	"			"			"				"	"						
CS31	"	1335	"			"			"				"	"						

Relinquished by:	Date/Time: 11.12.18 1820	Received by:	Date/Time: 11.12.18 1810
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day		72 Hours	
24 Hours	X	Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 2.5
Intact: Yes ✓ No

Notes:

1811146

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS5006'	11/13/18	1235	1			X			X				X	X						
SS5008.5'	"	1240	1			"			"				"	"						
SS5010'	"	1310	1			"			"				"	"						
CS32	"	1520	1			"			"				"	"						
CS33	"	1525	1			"			"				"	"						

Relinquished by:	Date/Time: 11.13.18 1830	Received by:	Date/Time: 11.13.18 1830
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 7.8
Intact: Yes ✓ No

Notes:

1811158

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	Biffco 1-26
Phone:	970.210.6571 Fax: -	Project Number:	
Sampler Name:	T. Lichtenberg		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Special Instructions
SS52060'	11/14/18	1045	1			X			X				X	X		
SS52085'		1050														
SS53060'		1100														
SS53085'		1105														
CS34		1430														
CS35		1435														
CS36		1440														
CS37		1445														

Relinquished by:	Date/Time: 11.14.18 1641	Received by:	Date/Time: 11.14.18 1641	**Turn Around Time (Check)** Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 7.9
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes ✓ No

Notes:

Summit Scientific

1811177

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS54@6'	11/15/18	1000	1			X			X				X	X						
SS54@8.5'		1005																		
SS55@6'		1010																		
SS55@8.5'		1015																		
SS56@6'		1140																		
SS56@8.5'		1145																		
SS57@10'		1150																		
SS58@12'		1330																		
SS59@10'		1335																		
SS60@10'		1350																		

Relinquished by:	Date/Time: 11.15.18 1610	Received by:	Date/Time: 11.15.18 1610	**Turn Around Time (Check)**
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day [X] 72 Hours [ ] 24 Hours [ ] Standard [ ] 48 Hours [ ]
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 4.7 Intact: Yes [✓] No [ ]

Notes:

Summit Scientific

1811177.2

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS6/010'	11/15/18	1500	1			X			X				X	X						
CS38	"	1410	"			"			"				"	"						
CS39	"	1415	"			"			"				"	"						
CS40	"	1420	"			"			"				"	"						
CS41	"	1425	"			"			"				"	"						
CS42	"	1430	"			"			"				"	"						

Relinquished by:	Date/Time: 11.15.18 1610	Received by:	Date/Time: 11.15.18 1610	**Turn Around Time (Check)** Same Day ✓ / 24 Hours / 48 Hours / 72 Hours / Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 4.7
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes ✓ No

Notes:

1811238

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR		Analyze For: HOLD			Special Instructions
CS43	11/20/18	1100	1			X			X				X	X			X			PLEASE HOLD CS43 - CS49
CS44	"	1105	"			"			"				X	X			X			
CS45	"	1110	"			"			"				X	X			X			
CS46	"	1115	"			"			"				X	X			X			
CS47	"	1120	"			"			"				X	X			X			
CS48	"	1125	"			"			"				X	X			X			
CS49	"	1130	"			"			"				X	X			X			
CS50	"	1135	"			"			"				X	X						

Relinquished by:	Date/Time: 11-20-18 1845	Received by:	Date/Time: 11-20-18 1845
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 4.5
Intact: Yes X No

Notes:

Summit Scientific

1811285

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone:	970.210.6571 Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS102016'	11/26/18	1100	1			X			X				X	X						
SS102085'	"	1105	"			"			"				"	"						
SS103010'	"	1150	"			"			"				"	"						
SS104010'	"	1445	"			"			"				"	"						
SS105010'	"	1530	"			"			"				"	"						

Relinquished by:	Date/Time: 11.26.18 1820	Received by:	Date/Time: 11.26.18 1820	Turn Around Time (Check): Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 9.3
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes X No

Notes:

1811300

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BERG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	—
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS606@12'	11/27/18	840	1			X			X				X	X						

Relinquished by:	Date/Time: 11.27.18 1538	Received by:	Date/Time: 11.27.18 1538	**Turn Around Time (Check)** Same Day [X] 24 Hours [ ] 48 Hours [ ] 72 Hours [ ] Standard [ ]
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 12.6
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes [✓] No [ ]

Notes:

1811326.1

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR	ORO				Special Instructions
SS6706'	11/28/18	810	1			X			X				X	X						Please Report ORO separately
SS6708.5'		815	1										X	X						
SS68010'		1050	1										X	X						
SS69010'		1100											X	X						
SS70010'		1140											X	X						
SS7008.5'-1		1145											X	X		X				
SS70010'		1150											X	X						
CS51		1230											X	X						
CS52		1235											X	X						
CS53		1240											X	X						

Relinquished by:	Date/Time: 11-28-18 1830	Received by:	Date/Time: 11-28-18 1830	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 2.9
Intact: Yes ✓ No

1811326.2

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BERG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
CS54	11/28/18	1245	1			X			X				X	X						
CS55	"	1250	"			"			"				"	"						
CS56	"	1255	"			"			"				"	"						
CS57	"	1300	"			"			"				"	"						
CS58	"	1305	"			"			"				"	"						
CS59	"	1310	"			"			"				"	"						

Relinquished by:	Date/Time: 11.28.18 1830	Received by:	Date/Time: 11.28.18 1830
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:
Temperature Upon Receipt: 2.9
Intact: Yes ✓ No

Notes:

Summit Scientific

1812007.1

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 2

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	—
Sampler Name:	Ty Lichtenberg		

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Analyze For: TPH	Special Instructions
SS7106'	12/3/18	935	1			X			X				X	X			PLEASE HOLD CS51R, CS53R-CS59R
SS7108.5'		940															
SS7206'		945															
SS7208.5'		950															
CS51R		1440														X	
CS52R		1445															
CS53R		1450														X	
CS54R		1455														X	
CS55R		1500														X	
CS56R		1505														X	

Relinquished by:	Date/Time:	Received by:	Date/Time:
			12-3-18 17:22
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:

Temperature Upon Receipt: 4.3

Intact: Yes X No

Notes:

Summit Scientific

1812007-2

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR	HOLD				Special Instructions
CS57R	12/3/18	1510	1			X			X				X	X		X				
CS58R	1	1515	1			X			X				X	X		X				
CS59R	1	1520	1			X			X				X	X		X				

Relinquished by:	Date/Time:	Received by:	Date/Time:	**Turn Around Time (Check)**
		AP	12-3-18 17:22	Same Day [X] 72 Hours [ ]
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 Hours [ ] Standard [ ]
				48 Hours [ ]
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	**Sample Integrity:**
				Temperature Upon Receipt: 4.0
				Intact: Yes [X] No [ ]

Notes:

1812023

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	——
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS7306'	12/4/18	1000	1			X			X				X	X						
SS7308.5'		1005	1			X			X				X	X						
SS7410'		940	1			X			X				X	X						

Relinquished by:	Date/Time: 12.4.18 1446	Received by:	Date/Time: 12.4.18 1446	**Turn Around Time (Check)**: Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 4.3
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes X No

Notes:

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

1/12/2006

Client: Noble/Tasman
Address: -
City/State/Zip: -
Phone: 970.210.6571 Fax: -
Sampler Name: T. Lichtenberg

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: Bbruns@tasman-geo.com
Project Name: BERG 1-26
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Soil	Matrix: Air - Canister Serial #	Matrix: Other (Specify)	Analyze For: 8260 BTEX	Analyze For: 8260B GBTEXN	Analyze For: 8015 DRO	Analyze For: pH, EC, SAR	Special Instructions
CS51R2	12/10/18	1010	1			X			X				X	X		
CS52R2		1015														
CS53R2		1020														
CS54R2		1025														
CS55R2		1030														
CS56R2		1035														
CS57R2		1040														
CS58R2		1045														
CS59R2		1050														

Relinquished by: Date/Time: 12.6.18 1800
Received by: Date/Time: 12.6.18 1800
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:

Turn Around Time (Check)
Same Day X
24 Hours
48 Hours
72 Hours
Standard

Sample Integrity:
Temperature Upon Receipt: 20.°
Intact: Yes / No

Notes:

1812115

Summit Scientific

S2

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

Page 1 of 1

Client: Tasman/Noble
Address:
City/State/Zip:
Phone: 720-616-8383
Sampler Name: J. Whitehour

Project Manager: Brandon Bruns, Invoice Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Bicrig 1-76
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 6BTEXN	8015 DRO							
1	CS60	12/11	1320	1			X			X			X	X							
2	CS61	12/11	1325	1																	
3	CS62		1330	1																	
4	CS63		1335	1																	
5	CS64		1340	1																	
6	SS75C 6'		0830	1																	
7	SS75C 8.5'		0835	1																	
8	SS76C 6'		1430	1																	
9	SS76C 8.5'		1435	1																	
10	SS77C 12.5'	—	1450	1																	

Relinquished by:	Date/Time:	Received by:	Date/Time:
	12/11/18 1647		12.11.18 1647
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours —
48 hours —
72 hours —
Standard —

Sample Integrity:
Temperature Upon Receipt: 12.1
Samples Intact: (Yes) No

Notes:

1812115

Summit Scientific

S_2

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Tasman Geo
Address:
City/State/Zip:
Phone: 720 616 8383
Sampler Name: J. Whitehouse

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: bbruns@tasman-geo.com
Project Name: Bierig 1-26
Project Number:

					Preservative				Matrix				Analysis Requested										Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	8260 GBTEX	8015 DRO									
1	5578@12.5'	12/11	1440	1			X			X			X	X									
2	5579@12.5'	12/11	1455	1																			
3	5580@12.5'		1445	1																			
4	5581@6'		1500	1																			
5	5581@8.5'		1510	1																			
6	5582@6'		1520	1																			
7	5582@8.5'		1530	1																			
8																							
9																							
10																							

Relinquished by:	Date/Time:	Received by:	Date/Time:
	12/11/18 1642		12.11.18 1642
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours ___
48 hours ___
72 hours ___
Standard ___

Sample Integrity:
Temperature Upon Receipt: 12.1
Samples Intact: (Yes) No

Notes:

1812141.1

Summit Scientific

S_2

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

Client: Tasman Noble
Address:
City/State/Zip:
Phone: 720 616 8383
Sampler Name: J. Whitenour

Project Manager: Brandon Burns, Invoice: Jacob Evans
E-Mail: bburns@tasman-geo.com
Project Name: Bierig 1-26
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 GBTEXU	8015 DRO							
1	CS65	12/12/18	1300	1			X			X			X	X							
2	CS66		1305	1																	
3	CS67		1310	1																	
4	CS68		1315	1																	
5	CS69		1320	1																	
6	CS70		1325	1																	
7	CS71		1330	1																	
8	CS53R3		1355	1																	
9	CS55R3		1350	1																	
10	SS83@ 6'	↓	0815	1			↓			↓			↓	↓							

Relinquished by:	Date/Time: 12/12/18 1502	Received by:	Date/Time: 12.12.18 1502	**Turn Around Time** (Check): Same Day X; 24 hours ___; 48 hours ___; 72 hours ___; Standard ___
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 4.5; Samples Intact: (Yes) No
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Notes:

1812141.2

Summit Scientific

S_2

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

Client: Tasman / Noble
Project Manager: Brandon Burns, Enwork: Jacob Evans
Address:
E-Mail: bburns@tasman-geo.com
City/State/Zip:
Phone: 720 - 616 - 8383
Project Name: Bierly 1-26
Sampler Name: J. Whitehouse
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 60TEX	8015 OA0							
1	5583C 8.5'	12/12/18	0820	1			X			X			X	X							
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time: 12/12/18 1502	Received by:	Date/Time: 12.12.18 1502
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours ___
48 hours ___
72 hours ___
Standard ___

Sample Integrity:
Temperature Upon Receipt: 4.5
Samples Intact: (Yes) No

Notes:

Summit Scientific

S2

1812162

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

Page 1 of 1

Client: Tasman/Noble
Address:
City/State/Zip:
Phone: 720-616-8383
Sampler Name: J. Whitemore

Project Manager: Brandon Burns, Invoice: Jacob Evans
E-Mail: bburns@tasman-geo.com
Project Name: Bierig 1-76
Project Number:

					Preservative				Matrix				Analysis Requested									Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 C-BTEXN	8015 DRO								
1	SS84@6'	12-13-18	1320	1			X			X			X	X								
2	SS84 @ 8.5'		1325	1																		
3	SS85 @ 6'		1330	1																		
4	SS85 @ 8.5'		1335	1																		
5	SS86 @ 6'		1340	1																		
6	SS86 @ 8.5'		1345	1																		
7	SS87 @ 12.5'	↓	1350	1			↓			↓			↓	↓								
8																						
9																						
10																						

Relinquished by:	Date/Time:	Received by:	Date/Time:
	12/13/18 1505		12.13.18 1505
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)
Same Day X
24 hours ___
48 hours ___
72 hours ___
Standard ___

Sample Integrity:
Temperature Upon Receipt: 4.0
Samples Intact: (Yes) No

Notes:

1812185

Summit Scientific

S_2

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

Page 1 of 1

Client:	Noble / Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	6899 Pecos Street	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO/ 80221		
Phone:	303-487-1228	Project Name:	Biering 1-26
Sampler Name:	J. Whitenour	Project Number:	

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					
1	5588@6'	12-14-18	0910	1			X			X				X	X						
2	5588@8.5'		0915	1																	
3	5589@6'		0840	1																	
4	5589@8.5'		0845	1																	
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time: 12-14-18 1545	Received by: Tasman's Lock Box	Date/Time: 12-14-18 1545	**Turn Around Time**	(Check)
Relinquished by: Tasman's Lock Box	Date/Time: 12.14.18 1830	Received by:	Date/Time: 12.14.18 1830	Same Day X	72 hours ___
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours ___	Standard ___
				48 hours ___	
				Sample Integrity:	
				Temperature Upon Receipt: 7.1	
				Samples Intact: (Yes) No	

Notes:

Summit Scientific

1812201.1

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	—
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS90@6'	12/17/18	825	1			X			X				X	X						
SS90@8.5'	"	830	"			"			"				"	"						
SS91@12'	"	900	"			"			"				"	"						
SS92@6'	"	920	"			"			"				"	"						
SS92@8.5'	"	925	"			"			"				"	"						
SS93@6'	"	935	"			"			"				"	"						
SS93@8.5'	"	940	"			"			"				"	"						
SS94@6'	"	1005	"			"			"				"	"						
SS94@8.5'	"	1010	"			"			"				"	"						
QC72	"	1200	"			"			"				"	"						

Relinquished by:	Date/Time: 12/17/18 1523	Received by:	Date/Time: 12.17.18 15:23	Turn Around Time (Check): Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	Notes:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 7.0; Intact: Yes X No

Summit Scientific

1812201.2

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone: 970.210.6571	Fax: -	Project Number:	—
Sampler Name:	T. Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
CS73	12/17/18	1205	1			X			X				X	X						
CS74	1	1210	1			1			1				1	1						
CS75	1	1215	1			1			1				1	1						

Relinquished by: 12/17/18	Date/Time: 1528	Received by:	Date/Time: 12.17.18 1528	**Turn Around Time (Check)**: Same Day [X], 24 Hours [ ], 48 Hours [ ], 72 Hours [ ], Standard [ ]
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 7.0
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes [✓] No [ ]

Notes:

Summit Scientific

1812221

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone:	970.210.6571 Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS95@6'	12/18/18	1145	1			X			X				X	X						
SS95@8.5'		1030																		
SS96@6'		1200																		
SS96@8.5'		1205																		
SS97@6'		1310																		
SS97@8.5'		1315																		
SS98@6'		1430																		
SS98@8.5'		1435																		
SS99@12'		1440																		
SS100@14'		1450																		

Relinquished by:	Date/Time: 12.18.18 1825	Received by:	Date/Time: 12.18.18 1825	**Turn Around Time (Check)** Same Day [X] 24 Hours [ ] 48 Hours [ ] 72 Hours [ ] Standard [ ]
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 5.9
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes [✓] No [ ]

Notes:

Summit Scientific

1812221

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BIERIG 1-26
Phone:	970.210.6571 Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS101@6'	12/18/18	1500	1			X			X				X	X						
SS101@8.5'	1	1505	1			X			X				X	X						

Relinquished by:	Date/Time: 12.18.18 1825	Received by:	Date/Time: 12.18.18 1825	**Turn Around Time (Check)** Same Day X; 24 Hours; 48 Hours; 72 Hours; Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 5.9
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Intact: Yes ✓ No

Notes:

Summit Scientific

1812261

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client:	Noble/Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	-	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	-	Project Name:	BERG 1-26
Phone:	970.210.6571 Fax: -	Project Number:	
Sampler Name:	Ty Lichtenberg		

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					Special Instructions
SS102@6'	12/20/18	830	1			X			X				X	X						
SS102@8.5'	1	835	1			1			1				1	1						
SS103@10'	1	1000	1			1			1				1	1						
SS14@10'	1	1015	1			1			1				1	1						

Relinquished by:	Date/Time: 12/20/18 1643	Received by:	Date/Time: 12.20.18 1643
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 Hours	
24 Hours		Standard	
48 Hours			

Sample Integrity:

Temperature Upon Receipt: 8.2

Intact: Yes / No

Notes:

Summit Scientific

S_2

1901004.1

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

Client:	Noble / Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	6899 Pecos Street	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO/ 80221		
Phone:	970.210.6571	Project Name:	BIERIG 1-26
Sampler Name:	T. Lichtenberg	Project Number:	—

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					
1	SS105@6'	1/2/209	1120	1			X			X				X	X						
2	SS105@8S'		1125																		
3	SS1060 10'		1140																		
4	SS107@11'		1145																		
5	SS108@12'		1150																		
6	CS76		1300																		
7	CS77		1305																		
8	CS78		1310																		
9	CS79		1315																		
10	CS80		1320																		

Relinquished by:	Date/Time: 1.2.19 1630	Received by: Tasman's Lock Box	Date/Time: 1.2.19 1630	**Turn Around Time**	(Check)
Relinquished by: Tasman's Lock Box 1/2/19	Date/Time: 1811	Received by:	Date/Time: 1.2.19 1811	Same Day X	72 hours —
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours —	Standard —
				48 hours —	
				Sample Integrity:	
				Temperature Upon Receipt: 6.5	
				Samples Intact: (Yes) No	

Notes:

Summit Scientific

1901004.2

S_2

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

Client:	Noble / Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	6899 Pecos Street	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO/ 80221		
Phone:	970.210.6571	Project Name:	BIERIG 1-26
Sampler Name:	T. Lichtenberg	Project Number:	—

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					
1	CS81	1/2/2019	1325	1			X			X				X	X						
2	CS82		1330																		
3	CS83		1335																		
4	CS84		1340																		
5	CS85		1345																		
6	CS86		1350																		
7	CS87		1355																		
8	CS88		1400																		
9	CS89		1405																		
10																					

				Turn Around Time	(Check)	Notes:
Relinquished by:	Date/Time: 1.2.19 1630	Received by: Tasman's Lock Box	Date/Time: 1.2.19 1630	Same Day X	72 hours —	
Relinquished by: Tasman's Lock Box	Date/Time: 1.2.19 1811	Received by:	Date/Time: 1.2.19 1811	24 hours —	Standard —	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours —		
				Sample Integrity:		
				Temperature Upon Receipt: 6.5		
				Samples Intact: (Yes) No		

1901014

Summit Scientific

S_2

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

Client:	Noble / Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	6899 Pecos Street	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO/ 80221		
Phone:	970.210.6571	Project Name:	BIERIG 1-26
Sampler Name:	T. Lichtenberg	Project Number:	—

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					
1	SS109@10'	1/3/19	935				X			X				X	X						
2	SS110@10'		940																		
3	SS111@6'		1230																		
4	SS111@8.5'		1235																		
5	SS112@6'		1240																		
6	SS112@8.5'		1245																		
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time: 1/3/19 1550 1700	Received by: ~~Tasman's Lock Box~~	Date/Time: 1.3.19 1700	**Turn Around Time** (Check): Same Day X; 24 hours —; 48 hours —; 72 hours —; Standard —
Relinquished by: **Tasman's Lock Box**	Date/Time:	Received by:	Date/Time:	**Sample Integrity:** Temperature Upon Receipt: 3.1
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: (Yes) No

Notes:

1901137.1

Summit Scientific

S_2

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

Client:	Noble / Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	6899 Pecos Street	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO/ 80221		
Phone:	970.210.6571	Project Name:	BIEBER 1-26
Sampler Name:	T. Lichtenberg	Project Number:	

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					
1	CS90	1/10/19	1100	1			X			X				X	X						
2	CS91		1105																		
3	CS92		1110																		
4	CS93		1115																		
5	CS94		1120																		
6	CS95		1125																		
7	CS96		1130																		
8	CS97		1135																		
9	CS98		1140																		
10	CS99		1145																		

Relinquished by:	Date/Time: 1/10/19 -1600	Received by: Tasman's Lock Box	Date/Time: 1/10/19 -1600
Relinquished by: Tasman's Lock Box	Date/Time: 1.10.19 1758	Received by:	Date/Time: 1.10.19 1758
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 hours	___
24 hours	___	Standard	___
48 hours	___		

Sample Integrity:

Temperature Upon Receipt: 4.2

Samples Intact: (Yes) No

Notes:

1901372

Summit Scientific

S_2

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

Client:	Noble / Tasman	Project Manager:	Brandon Bruns, Invoice: Jacob Evans
Address:	6899 Pecos Street	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO/ 80221		
Phone:	970.210.6571	Project Name:	BIERIG 1-26
Sampler Name:	T. Lichtenberg	Project Number:	

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR					
1	CS100	1/10/19	1150	1			X			X				X	X						
2	CS101	"	1155	"			"			"				"	"						
3	CS102	"	1200	"			"			"				"	"						
4	CS103	"	1205	"			"			"				"	"						
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time: 1/10/19 - 1600	Received by: Tasman's Lock Box	Date/Time: 1/10/19 - 1600
Relinquished by: Tasman's Lock Box	Date/Time: 1.10.19 1758	Received by:	Date/Time: 1.10.19 1758
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)

Same Day	X	72 hours	___
24 hours	___	Standard	___
48 hours	___		

Sample Integrity:

Temperature Upon Receipt: 4.2

Samples Intact: (Yes) No

Notes:

Sample Receipt Checklist

S2 Work Order: 1805248

Client: Tasman/Noble Client Project ID: Berus 1-26

Shipped Via: Pickup Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other: _____
(Describe)

Temp (°C)	7.2

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [(1)]?	✓			
Was adequate sample volume provided [(1)]?	✓			
If custody seals are present, are they intact [(1)]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

LD
Custodian Printed Name or Initials

Signature or Initials of Custodian

5/18/18 1830
Date/Time

Sample Receipt Checklist

S2 Work Order 807314

Client: Noble/Isaman Client Project ID: Berig 1-26

Shipped Via: Pickup Airbill #:
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____
(Describe)

Temp (°C)	9.4

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [(1)]?	✓			
Was adequate sample volume provided [(1)]?	✓			
If custody seals are present, are they intact [(1)]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

CP
Custodian Printed Name or Initials

Signature of Custodian

7.25.18 1820
Date/Time

Sample Receipt Checklist

S2 Work Order 1808011

Client: Noble/Tasman Client Project ID: Biesig 1-26

Shipped Via: Pickup Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other:_____
(Describe)

Temp (°C)	9.3

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [(1)]?	✓			
Was adequate sample volume provided [(1)]?	✓			
If custody seals are present, are they intact [(1)]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials	Signature of Custodian	Date/Time
		8.1.18 1835

Sample Receipt Checklist

S2 Work Order: 1810009

Client: Noble/Tasman Client Project ID: Bierig 1-26

Shipped Via: Pickup (UPS, FedEx, Hand Delivered, Pick-up, etc.) Airbill #: _____

Matrix (check all that apply): ____Air ____Soil/Solid ✓ Water ____Other: _____ (Describe)

Temp (°C)	3.7

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials	Signature or Initials of Custodian	Date/Time
LP		10.1.18 1815

Sample Receipt Checklist

S2 Work Order 1810269

Client: Noble/Tasman Client Project ID: Biesiq 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	10.0

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials **Signature of Custodian** 10-27-18 1840 **Date/Time**

Sample Receipt Checklist

S2 Work Order 1810261

Client: Noble / Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ___Air ✓Soil/Solid ✓Water ___Other:_____ (Describe)

Temp (°C)	5.6

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

WP
Custodian Printed Name or Initials

Signature of Custodian

10.25.18 1850
Date/Time

Sample Receipt Checklist

S2 Work Order 1810302

Client: Tasman/Noble Client Project ID: Bragg 1-26

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

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	11.6

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

UP
Custodian Printed Name or Initials

Signature of Custodian

10.24.18 1653
Date/Time

Sample Receipt Checklist

S2 Work Order 1810323

Client: Noble/Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	7.2

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

LP
Custodian Printed Name or Initials

Signature of Custodian

10.25.18 1805
Date/Time

Sample Receipt Checklist

S2 Work Order 1810336

Client: Noble / Tasman Client Project ID: Biesig 1-26

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other P.U. 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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

CA
Custodian Printed Name or Initials

Signature of Custodian

10.26.18 1825
Date/Time

Sample Receipt Checklist

S2 Work Order 1810388

Client: Noble / Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	5-1

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

UP — **Custodian Printed Name or Initials**

Signature of Custodian

10.30.18 1810 — **Date/Time**

Sample Receipt Checklist

S2 Work Order 1810406

Client: Noble / Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	8.5

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

LR
Custodian Printed Name or Initials

Signature of Custodian

10.31.18 1815
Date/Time

Sample Receipt Checklist

S2 Work Order 1811005

Client: Noble/Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	7.7

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

LP
Custodian Printed Name or Initials

Signature of Custodian

11-1-18 1745
Date/Time

Sample Receipt Checklist

S2 Work Order 1811032

Client: Noble/Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	9.7

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

LP
Custodian Printed Name or Initials

Signature of Custodian

11.2.18 1845
Date/Time

Sample Receipt Checklist

S2 Work Order 1811046

Client: Noble / Tasman Client Project ID: Bieng 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other: _____ (Describe)

Temp (°C)	6.2

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

WP
Custodian Printed Name or Initials

Signature of Custodian

11.5.18 1825
Date/Time

Sample Receipt Checklist

S2 Work Order 1811082

Client: Noble / Teeman Client Project ID: Bierig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	7.8

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials	Signature of Custodian	Date/Time
LP		11.7.18 1830

Sample Receipt Checklist

S2 Work Order 1811092

Client: Noble / Tasman Client Project ID: Bierig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	10.6

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials **Signature of Custodian** 11.8.18 1815 **Date/Time**

Sample Receipt Checklist

S2 Work Order 1811111

Client: Noble/Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	6.5

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

CP
Custodian Printed Name or Initials

Signature of Custodian

11.9.18 1825
Date/Time

Sample Receipt Checklist

S2 Work Order 1811123

Client: Noble / Tasman Client Project ID: Biesiq 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	2.5

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

LP
Custodian Printed Name or Initials

Signature of Custodian

11.12.18 1810
Date/Time

Sample Receipt Checklist

S2 Work Order 1811146

Client: Noble / Tasman Client Project ID: Biesiq 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	7.8

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

CP
Custodian Printed Name or Initials

Signature of Custodian

11-13-18 1830
Date/Time

Sample Receipt Checklist

S2 Work Order 1811158

Client: Noble/Tasman Client Project ID: Bierig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	7.9

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

LP
Custodian Printed Name or Initials

Signature of Custodian

11.14.18 1830
Date/Time

Sample Receipt Checklist

S2 Work Order 1811177

Client: Noble/Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	4.7

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials **Signature of Custodian** 11.15.18 1805 **Date/Time**

Sample Receipt Checklist

S2 Work Order 1811238

Client: Noble/Tasman Client Project ID: Berg 1-26

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

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	4.5

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

CP
Custodian Printed Name or Initials

Signature of Custodian

11.20.18 1845
Date/Time

Sample Receipt Checklist

S2 Work Order 1811285

Client: Noble/Tasman Client Project ID: Berg 1-26

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

Matrix (check all that apply): ____Air __✓__Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	9.3

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials	Signature of Custodian	Date/Time
		11.26.18 1825

Sample Receipt Checklist

S2 Work Order 1811300

Client: Noble/Tasman Client Project ID: Bierig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	12.6

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

LP
Custodian Printed Name or Initials

Signature of Custodian

11.27.18 1549
Date/Time

Sample Receipt Checklist

S2 Work Order: 1811326

Client: Noble / Tasman Client Project ID: Biesig 1-26

Shipped Via: Pickup (UPS, FedEx, Hand Delivered, Pick-up, etc.) Airbill #: _____

Matrix (check all that apply): ____Air ___✓__Soil/Solid ____Water ____Other: _____ (Describe)

Temp (°C)	2.9

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

LP
Custodian Printed Name or Initials

Signature or Initials of Custodian

11.28.18 1930
Date/Time

Sample Receipt Checklist

S2 Work Order 1812007

Client: Tasman / Noble Client Project ID: Bierig 1-26

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

Matrix (check all that apply): ____Air ~~+~~ Soil/Solid ____Water ____Other:_____ (Describe)

Temp (°C)	4.0

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 provided that there is evidence that cooling has begun.	+			
Were all samples received intact [1]?	+			
Was adequate sample volume provided [1]?	+			
If custody seals are present, are they intact [1]?			+	
Are samples with holding times due within 48 hours sample due within 48 hours present?			+	
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]?		+		no time
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]?		+		missing time
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, H2SO4, NaOH, HNO3, ect			+	
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.

Mueri
Custodian Printed Name or Initials

[signature] 12-3-18
Signature of Custodian

17:22
Date/Time

Sample Receipt Checklist

S2 Work Order 1812023

Client: Noble / Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	4.3

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials	Signature of Custodian	Date/Time
CF		12.4.18 1620

Sample Receipt Checklist

S2 Work Order 1812026

Client: Noble/Tasman Client Project ID: Berry 1-26

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

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	2.0

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**				

LP
Custodian Printed Name or Initials

Signature of Custodian

12.6.18 1830
Date/Time

Sample Receipt Checklist

S2 Work Order: 1812115

Client: Tasman / Noble Client Project ID: Biesiq 1-26

Shipped Via: H.D. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other: _____
(Describe)

Temp (°C)	12.1

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials **Signature or Initials of Custodian** 12.11.18 1644 **Date/Time**

Sample Receipt Checklist

S2 Work Order: 1812141

Client: Tasman / Noble Client Project ID: Bering 1-26

Shipped Via: H.D. (UPS, FedEx, Hand Delivered, Pick-up, etc.) Airbill #: _____

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other: _____ (Describe)

Temp (°C)	4.5

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [1]?	✓			
Was adequate sample volume provided [1]?	✓			
If custody seals are present, are they intact [1]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**				

LP
Custodian Printed Name or Initials

Signature or Initials of Custodian

12.12.18 1630
Date/Time

Sample Receipt Checklist

S2 Work Order: 1812162

Client: Tasman / Noble Client Project ID: Biesig 1-26

Shipped Via: H.D. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other: _____
(Describe)

Temp (°C)	4.0

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [(1)]?	✓			
Was adequate sample volume provided [(1)]?	✓			
If custody seals are present, are they intact [(1)]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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 or Initials	Signature or Initials of Custodian	Date/Time
		7.13.18 1630

Sample Receipt Checklist

S2 Work Order: 1812185

Client: Noble / Tasman Client Project ID: Bierig 1-26

Shipped Via: P.U. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other: _____
(Describe)

Temp (°C)	7-1

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [(1)]?	✓			
Was adequate sample volume provided [(1)]?	✓			
If custody seals are present, are they intact [(1)]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

CP
Custodian Printed Name or Initials

Signature or Initials of Custodian

12.14.18 1830
Date/Time

Sample Receipt Checklist

S2 Work Order 1812201

Client: Noble/Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	7.0

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

LP
Custodian Printed Name or Initials

Signature of Custodian

12.17.18 1636
Date/Time

Sample Receipt Checklist

S2 Work Order: 1812221

Client: Noble / Tasman Client Project ID: Biesig 1-26

Shipped Via: P.U. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other: _____
(Describe)

Temp (°C)	5.9

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [(1)]?	✓			
Was adequate sample volume provided [(1)]?	✓			
If custody seals are present, are they intact [(1)]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**				

LP
Custodian Printed Name or Initials

Signature or Initials of Custodian

12.18.18 1825
Date/Time

Sample Receipt Checklist

S2 Work Order 1812261

Client: Noble/Tasman Client Project ID: Bleay 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	8.2

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.

CP — **Custodian Printed Name or Initials**

Signature of Custodian

12-20-18 1700 — **Date/Time**

Sample Receipt Checklist

S2 Work Order: 1901004

Client: Noble / Tasman Client Project ID: Biesig 1-26

Shipped Via: Pickup (UPS, FedEx, Hand Delivered, Pick-up, etc.) Airbill #: _____

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other: _____ (Describe)

Temp (°C)	6.5

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact [(1)]?	✓			
Was adequate sample volume provided [(1)]?	✓			
If custody seals are present, are they intact [(1)]?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

CP — **Custodian Printed Name or Initials**

Signature or Initials of Custodian

1.2.19 1535 — **Date/Time**

Sample Receipt Checklist

S2 Work Order 1901019

Client: Noble/Tasman Client Project ID: Bierig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	3.1

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

CP
Custodian Printed Name or Initials

Signature of Custodian

1.8.19 1701
Date/Time

Sample Receipt Checklist

S2 Work Order 1901137

Client: Noble/Tasman Client Project ID: Biesig 1-26

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

Matrix (check all that apply): ____Air ✓ Soil/Solid ____Water ____Other:____ (Describe)

Temp (°C)	4.2

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 provided that there is evidence that cooling has begun.	✓			
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
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, H2SO4, NaOH, HNO3, ect			✓	
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.**

LP
Custodian Printed Name or Initials

Signature of Custodian

1.10.19 1830
Date/Time

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS01@10'
1805248-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.15**	0.0020	mg/kg	1	1805238	05/21/18	05/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**18**	0.50	"	100	"	"	"	"	
Xylenes (total)	**230**	1.0	"	"	"	"	"	"	
Naphthalene	**2.0**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**3200**	500	"	10	"	"	"	"	

Date Sampled: **05/18/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*166 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**600**	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*61.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS03@5'
1805248-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.022**	0.0020	mg/kg	1	1805238	05/21/18	05/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.85**	0.10	"	10	"	"	"	"	
Naphthalene	**0.25**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**1100**	50	"	100	"	"	"	"	

Date Sampled: **05/18/18 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*129 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**240**	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*68.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS04@4'
1805248-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1805238	05/21/18	05/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/18 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS05@5'
1805248-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1805238	05/21/18	05/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/18 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS06@10'
1805248-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1805238	05/21/18	05/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**1.7**	0.50	"	100	"	"	"	"	
Xylenes (total)	**28**	1.0	"	"	"	"	"	"	
Naphthalene	**1.1**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**760**	500	"	10	"	"	"	"	

Date Sampled: **05/18/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**120**	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS07@10'
1805248-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 13:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1805238	05/21/18	05/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**6.1**	0.50	"	100	"	"	"	"	
Xylenes (total)	**83**	1.0	"	"	"	"	"	"	
Naphthalene	**1.4**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**1300**	500	"	10	"	"	"	"	

Date Sampled: **05/18/18 13:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*137 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 13:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**610**	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 13:51**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS08@10'
1805248-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.20**	0.0020	mg/kg	1	1805238	05/21/18	05/23/18	EPA 8260B	
Toluene	**0.037**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.12**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**90**	1.0	"	100	"	"	"	"	
Naphthalene	**0.071**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**1400**	500	"	10	"	"	"	"	

Date Sampled: **05/18/18 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*142 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**780**	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*84.9 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS09@10'
1805248-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1805238	05/21/18	05/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**18**	1.0	"	100	"	"	"	"	
Naphthalene	**0.010**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**230**	50	mg/kg	1	1805239	05/21/18	05/22/18	EPA 8015M	

Date Sampled: **05/18/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*57.5 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS10@5'
1805248-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1805238	05/21/18	05/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1805239	05/21/18	05/23/18	EPA 8015M	

Date Sampled: **05/18/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*51.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP01@5'
1807314-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.21**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**3.8**	0.050	"	10	"	"	"	"	
Xylenes (total)	**31**	1.0	"	100	"	"	08/03/18	"	
Naphthalene	**1.6**	0.10	"	10	"	"	07/26/18	"	
Gasoline Range Hydrocarbons	**1500**	50	"	100	"	"	08/03/18	"	

Date Sampled: **07/25/18 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*171 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**910**	50	mg/kg	1	1807310	07/25/18	07/25/18	EPA 8015M	

Date Sampled: **07/25/18 08:50**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP01@10'
1807314-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.16**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**6.9**	0.050	"	10	"	"	"	"	
Xylenes (total)	**15**	1.0	"	100	"	"	08/03/18	"	
Naphthalene	**1.5**	0.10	"	10	"	"	07/26/18	"	
Gasoline Range Hydrocarbons	**970**	50	"	100	"	"	08/03/18	"	

Date Sampled: **07/25/18 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*149 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**420**	50	mg/kg	1	1807310	07/25/18	07/25/18	EPA 8015M	

Date Sampled: **07/25/18 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP02@5'
1807314-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807309	07/25/18	07/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.096**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**2.2**	0.010	"	"	"	"	"	"	
Naphthalene	**0.15**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**110**	50	"	"	"	"	"	"	

Date Sampled: **07/25/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*166 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**360**	50	mg/kg	1	1807310	07/25/18	07/25/18	EPA 8015M	

Date Sampled: **07/25/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP02@11'
1807314-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.65**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**6.5**	0.50	"	100	"	"	08/03/18	"	
Xylenes (total)	**110**	1.0	"	"	"	"	"	"	
Naphthalene	**7.0**	0.10	"	10	"	"	07/26/18	"	
Gasoline Range Hydrocarbons	**2900**	50	"	100	"	"	08/03/18	"	

Date Sampled: **07/25/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*164 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**600**	50	mg/kg	1	1807310	07/25/18	07/25/18	EPA 8015M	

Date Sampled: **07/25/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*116 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP03@11'
1807314-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**1.7**	0.050	"	10	"	"	"	"	
Xylenes (total)	**3.7**	1.0	"	100	"	"	08/03/18	"	
Naphthalene	**0.78**	0.10	"	10	"	"	07/26/18	"	
Gasoline Range Hydrocarbons	**520**	50	"	100	"	"	08/03/18	"	

Date Sampled: **07/25/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*118 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*143 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**350**	50	mg/kg	1	1807310	07/25/18	07/25/18	EPA 8015M	

Date Sampled: **07/25/18 09:40**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP04@10'
1807314-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**4.8**	0.050	"	10	"	"	"	"	
Xylenes (total)	**15**	1.0	"	100	"	"	08/03/18	"	
Naphthalene	**1.3**	0.10	"	10	"	"	07/26/18	"	
Gasoline Range Hydrocarbons	**790**	50	"	100	"	"	08/03/18	"	

Date Sampled: **07/25/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*141 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**680**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP05@10'
1807314-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807309	07/25/18	07/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.015**	0.010	"	"	"	"	"	"	
Naphthalene	**0.022**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **07/25/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP06@10'
1807314-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.22**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.15**	0.010	"	"	"	"	"	"	
Naphthalene	**0.19**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**220**	50	"	10	"	"	"	"	

Date Sampled: **07/25/18 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*144 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**180**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*108 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP07@8'
1807314-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.069**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.063**	0.010	"	"	"	"	"	"	
Naphthalene	**0.11**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**30**	5.0	"	"	"	"	"	"	

Date Sampled: **07/25/18 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**120**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 11:38**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP07@12'
1807314-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0053**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.34**	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	**0.12**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**23**	5.0	"	10	"	"	"	"	

Date Sampled: **07/25/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*135 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*153 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP08@5'
1807314-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.071**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**4.5**	0.050	"	10	"	"	"	"	
Xylenes (total)	**16**	1.0	"	100	"	"	08/03/18	"	
Naphthalene	**1.9**	0.10	"	10	"	"	07/26/18	"	
Gasoline Range Hydrocarbons	**1600**	50	"	100	"	"	08/03/18	"	

Date Sampled: **07/25/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*160 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**600**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP08@10'
1807314-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.031**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**3.4**	0.050	"	10	"	"	"	"	
Xylenes (total)	**24**	1.0	"	100	"	"	08/03/18	"	
Naphthalene	**0.87**	0.10	"	10	"	"	07/26/18	"	
Gasoline Range Hydrocarbons	**850**	50	"	100	"	"	08/03/18	"	

Date Sampled: **07/25/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*134 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**300**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP09@5'
1807314-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**2.1**	0.20	mg/kg	100	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	**12**	0.50	"	100	"	"	"	"	
Xylenes (total)	**110**	1.0	"	"	"	"	"	"	
Naphthalene	**1.9**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**3100**	50	"	"	"	"	"	"	

Date Sampled: **07/25/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*210 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**370**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP09@10'
1807314-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0094**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.081**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.77**	0.010	"	"	"	"	"	"	
Naphthalene	**0.044**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **07/25/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*134 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**50**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 14:25**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP10@10'
1807314-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.013**	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**2.5**	0.50	"	100	"	"	"	"	
Xylenes (total)	**35**	1.0	"	"	"	"	"	"	
Naphthalene	**0.17**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**870**	50	"	100	"	"	"	"	

Date Sampled: **07/25/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*167 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*123 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**180**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP12@7'
1807314-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1807309	07/25/18	07/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0051**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.050**	0.010	"	"	"	"	"	"	
Naphthalene	**0.012**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **07/25/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**93**	50	mg/kg	1	1807310	07/25/18	07/26/18	EPA 8015M	

Date Sampled: **07/25/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS01@5'
1808011-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.4 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS02@10'
1808011-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.6 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS03@5'
1808011-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS04@9'
1808011-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS05@5'
1808011-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 12:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 12:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 12:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 12:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS06@6'
1808011-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS07@2'
1808011-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS08@4'
1808011-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS09@5'
1808011-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**4.5**	0.20	mg/kg	100	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	**10**	0.50	"	100	"	"	"	"	
Xylenes (total)	**200**	10	"	1000	"	"	"	"	
Naphthalene	**0.37**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**5200**	5000	"	100	"	"	"	"	

Date Sampled: **08/01/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*212 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**290**	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 13:30**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS10@3'
1808011-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.11**	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.032**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**13**	1.0	"	100	"	"	"	"	
Naphthalene	**0.042**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**150**	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*128 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*372 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**150**	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS11@4'
1808011-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**2.6**	0.20	mg/kg	100	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	**7.4**	0.50	"	100	"	"	"	"	
Xylenes (total)	**110**	1.0	"	"	"	"	"	"	
Naphthalene	**0.23**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**3000**	500	"	10	"	"	"	"	

Date Sampled: **08/01/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*166 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**180**	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS12@4'
1808011-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 14:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.3 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS013@3'
1808011-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 14:20**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS14@5'
1808011-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS15@4'
1808011-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 14:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/18 14:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*127 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 14:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 14:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA SS16@4'
1808011-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/18 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.42**	0.0020	mg/kg	1	1808028	08/02/18	08/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**2.9**	0.50	"	100	"	"	"	"	
Xylenes (total)	**94**	1.0	"	"	"	"	"	"	
Naphthalene	**1.1**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**3400**	500	"	10	"	"	"	"	

Date Sampled: **08/01/18 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*182 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/18 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**360**	50	mg/kg	1	1808026	08/02/18	08/03/18	EPA 8015M	

Date Sampled: **08/01/18 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH01

1810009-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/01/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH02

1810009-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**3.2**	1.0	ug/l	1	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**480**	100	"	100	"	"	"	"	
Xylenes (total)	**5200**	200	"	"	"	"	"	"	

Date Sampled: **10/01/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.9 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH03
1810009-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**3100**	100	ug/l	100	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	"	"	
Ethylbenzene	**1100**	100	"	100	"	"	"	"	
Xylenes (total)	**20000**	200	"	"	"	"	"	"	

Date Sampled: **10/01/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.0 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH04

1810009-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**33**	1.0	"	"	"	"	"	"	
Xylenes (total)	**250**	2.0	"	"	"	"	"	"	

Date Sampled: **10/01/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH05
1810009-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**400**	100	ug/l	100	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	**4.5**	1.0	"	1	"	"	"	"	
Ethylbenzene	**690**	100	"	100	"	"	"	"	
Xylenes (total)	**7700**	200	"	"	"	"	"	"	

Date Sampled: **10/01/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*95.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*	*21-167*		"	"	"	"	

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



Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH06
1810009-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1900**	100	ug/l	100	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	"	"	
Ethylbenzene	**630**	100	"	100	"	"	"	"	
Xylenes (total)	**13000**	200	"	"	"	"	"	"	

Date Sampled: **10/01/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.0 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH07

1810009-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**760**	100	ug/l	100	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	**7.9**	1.0	"	1	"	"	"	"	
Ethylbenzene	**580**	100	"	100	"	"	"	"	
Xylenes (total)	**5800**	200	"	"	"	"	"	"	

Date Sampled: **10/01/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

BH08
1810009-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**5200**	100	ug/l	100	1810033	10/02/18	10/04/18	EPA 8260B	
Toluene	**4700**	100	"	"	"	"	"	"	
Ethylbenzene	**710**	100	"	"	"	"	"	"	
Xylenes (total)	**14000**	200	"	"	"	"	"	"	

Date Sampled: **10/01/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS17@9.5'
1810269-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/22/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0047**	0.0020	mg/kg	1	1810304	10/22/18	10/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.017**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/22/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/22/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810305	10/22/18	10/22/18	EPA 8015M	

Date Sampled: **10/22/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA01@2.5'
1810281-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/23/18	EPA 8015M	

Date Sampled: **10/23/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA02@2.5'
1810281-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/23/18	EPA 8015M	

Date Sampled: **10/23/18 14:55**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA03@2.5'
1810281-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/23/18	EPA 8015M	

Date Sampled: **10/23/18 14:50**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA04@2.5'
1810281-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.7 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/24/18	EPA 8015M	

Date Sampled: **10/23/18 15:05**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA05@2.5'
1810281-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/24/18	EPA 8015M	

Date Sampled: **10/23/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA05@5'
1810281-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/24/18	EPA 8015M	

Date Sampled: **10/23/18 15:20**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA06@2.5'
1810281-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/24/18	EPA 8015M	

Date Sampled: **10/23/18 15:10**

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

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA07@2'
1810281-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810324	10/23/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810326	10/23/18	10/24/18	EPA 8015M	

Date Sampled: **10/23/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.2 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA01
1810281-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1810294	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**14**	1.0	"	"	"	"	"	"	
Xylenes (total)	**220**	2.0	"	"	"	"	"	"	

Date Sampled: **10/23/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*80.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA02
1810281-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1810294	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**6.4**	1.0	"	"	"	"	"	"	
Xylenes (total)	**89**	2.0	"	"	"	"	"	"	

Date Sampled: **10/23/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*77.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.8 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA03
1810281-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**69**	1.0	ug/l	1	1810294	10/23/18	10/23/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**22**	1.0	"	"	"	"	"	"	
Xylenes (total)	**250**	2.0	"	"	"	"	"	"	

Date Sampled: **10/23/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*79.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.8 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

HA04
1810281-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1200**	100	ug/l	100	1810294	10/23/18	10/24/18	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	"	"	
Ethylbenzene	**120**	1.0	"	"	"	"	"	"	
Xylenes (total)	**1300**	200	"	100	"	"	"	"	

Date Sampled: **10/23/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*80.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*21-167*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B01
1810302-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.0 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1340**	10.8	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**504**	5.40	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B01
1810302-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**79.1**	5.40	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.467**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.6**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**7.37**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.706**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B02
1810302-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 15:35**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1440**	11.0	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**569**	5.48	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B02
1810302-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**82.2**	5.48	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.464**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.3**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**7.58**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.527**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B03
1810302-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.8 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2620**	11.1	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**466**	5.57	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B03
1810302-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**44.6**	5.57	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.211**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.8**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**7.88**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.87**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B04
1810302-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.1 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3000**	10.8	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**440**	5.40	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B04
1810302-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**41.6**	5.40	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.188**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.6**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.01**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.23**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B05

1810302-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*95.2 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2510**	10.6	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**414**	5.31	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B05

1810302-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**53.7**	5.31	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.262**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**94.1**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.11**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.31**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B06

1810302-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.9 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3180**	10.6	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**428**	5.30	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B06

1810302-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**40.7**	5.30	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.180**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**94.4**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.05**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.48**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B07
1810302-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.3 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2450**	10.9	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**380**	5.45	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B07

1810302-07 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**43.5**	5.45	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.216**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.7**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.00**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.23**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B08

1810302-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.5 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2670**	11.1	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**395**	5.54	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B08

1810302-08 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**65.7**	5.54	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.314**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.3**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**7.98**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.31**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B09
1810302-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.3 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2730**	10.9	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**356**	5.47	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B09
1810302-09 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**44.9**	5.47	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.215**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.4**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**7.96**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.01**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B10
1810302-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*124 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/24/18	EPA 8015M	

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.0 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2830**	11.2	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**354**	5.58	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B10
1810302-10 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**29.5**	5.58	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.139**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.6**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.20**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.656**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B11
1810302-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/25/18	EPA 8015M	

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.8 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3020**	11.0	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**354**	5.49	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B11
1810302-11 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**54.1**	5.49	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.248**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.1**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.08**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.93**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B12
1810302-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/25/18	EPA 8015M	

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2430**	10.7	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	
Magnesium	**328**	5.34	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B12
1810302-12 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**31.3**	5.34	mg/kg dry	1	1810351	10/24/18	10/24/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.158**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.6**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.09**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.34**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B13
1810302-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/25/18	EPA 8015M	

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.7 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**800**	10.4	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	
Magnesium	**206**	5.22	"	"	"	"	"	"	

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.

0B13
1810302-13 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**42.2**	5.22	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.344**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**95.7**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.20**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.63**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B14
1810302-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/25/18	EPA 8015M	

Date Sampled: **10/24/18 15:10**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2730**	10.8	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	
Magnesium	**313**	5.40	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B14
1810302-14 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**30.4**	5.40	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.147**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.6**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.18**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.12**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B15

1810302-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/25/18	EPA 8015M	

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.1 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2290**	10.9	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	
Magnesium	**301**	5.46	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B15

1810302-15 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**35.2**	5.46	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.184**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.6**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.09**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.40**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B16

1810302-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/25/18	EPA 8015M	

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.3 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3110**	10.9	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	
Magnesium	**355**	5.46	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B16

1810302-16 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**48.1**	5.46	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.218**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.6**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**8.17**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**3.04**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B17
1810302-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810349	10/24/18	10/25/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810350	10/24/18	10/25/18	EPA 8015M	

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.0 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1610**	11.1	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	
Magnesium	**297**	5.54	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

0B17
1810302-17 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**59.3**	5.54	mg/kg dry	1	1810351	10/24/18	10/25/18	EPA 6020B	

Calculated Analysis

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.356**	0.100	units	1	1810352	10/24/18	10/25/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.3**		%	1	1810353	10/24/18	10/24/18	Calculation	
pH	**7.98**		pH Units	"	1810354	10/24/18	10/24/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/24/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.84**	0.0100	mmhos/cm	1	1810355	10/24/18	10/24/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP15@6'
1810323-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810379	10/25/18	10/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.044**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.71**	0.010	"	"	"	"	"	"	
Naphthalene	**0.023**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**70**	50	"	"	"	"	"	"	

Date Sampled: **10/25/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*139 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**440**	50	mg/kg	1	1810380	10/25/18	10/25/18	EPA 8015M	

Date Sampled: **10/25/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP16@7'
1810323-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810379	10/25/18	10/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.025**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*139 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810380	10/25/18	10/26/18	EPA 8015M	

Date Sampled: **10/25/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.6 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP17@5.5'
1810323-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0094**	0.0020	mg/kg	1	1810379	10/25/18	10/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.084**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.5**	0.010	"	"	"	"	"	"	
Naphthalene	**0.047**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*124 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*162 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**85**	50	mg/kg	1	1810380	10/25/18	10/26/18	EPA 8015M	

Date Sampled: **10/25/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.1 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP17@11'
1810323-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.014**	0.0020	mg/kg	1	1810379	10/25/18	10/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.016**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.26**	0.010	"	"	"	"	"	"	
Naphthalene	**0.010**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*127 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**76**	50	mg/kg	1	1810380	10/25/18	10/26/18	EPA 8015M	

Date Sampled: **10/25/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.4 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP18@7.5'
1810323-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.076**	0.0020	mg/kg	1	1810379	10/25/18	10/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.34**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**12**	0.10	"	10	"	"	"	"	
Naphthalene	**0.14**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*158 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**190**	50	mg/kg	1	1810380	10/25/18	10/26/18	EPA 8015M	

Date Sampled: **10/25/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.1 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP19@6'
1810323-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810379	10/25/18	10/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.21**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.6**	0.010	"	"	"	"	"	"	
Naphthalene	**0.031**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**1200**	50	"	100	"	"	"	"	

Date Sampled: **10/25/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*172 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*146 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**290**	50	mg/kg	1	1810380	10/25/18	10/26/18	EPA 8015M	

Date Sampled: **10/25/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP22@12'
1810336-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810399	10/26/18	10/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/26/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*80.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810401	10/26/18	10/26/18	EPA 8015M	

Date Sampled: **10/26/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP22@15'
1810336-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810399	10/26/18	10/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.055**	0.050	"	10	"	"	10/26/18	"	
Xylenes (total)	ND	0.010	"	1	"	"	10/27/18	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/26/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*75.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*124 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810401	10/26/18	10/26/18	EPA 8015M	

Date Sampled: **10/26/18 09:55**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP23@10.5'
1810336-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810399	10/26/18	10/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/26/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*77.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810401	10/26/18	10/26/18	EPA 8015M	

Date Sampled: **10/26/18 10:05**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP24@5.5'
1810336-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.027**	0.0020	mg/kg	1	1810399	10/26/18	10/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0088**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.15**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/26/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*77.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810401	10/26/18	10/27/18	EPA 8015M	

Date Sampled: **10/26/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP24@11'
1810336-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.024**	0.0020	mg/kg	1	1810399	10/26/18	10/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.022**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.26**	0.010	"	"	"	"	"	"	
Naphthalene	**0.012**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/26/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*77.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810401	10/26/18	10/27/18	EPA 8015M	

Date Sampled: **10/26/18 10:30**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP25@6.5'
1810336-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.029**	0.0020	mg/kg	1	1810399	10/26/18	10/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.16**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**9.9**	0.10	"	10	"	"	10/27/18	"	
Naphthalene	**0.082**	0.010	"	1	"	"	10/27/18	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/26/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*75.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*113 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*163 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**120**	50	mg/kg	1	1810401	10/26/18	10/27/18	EPA 8015M	

Date Sampled: **10/26/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

TP25@10'
1810336-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.039**	0.0020	mg/kg	1	1810399	10/26/18	10/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0064**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.083**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*77.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810401	10/26/18	10/27/18	EPA 8015M	

Date Sampled: **10/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS01
1810388-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0058**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.14**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*124 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*159 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**57**	50	mg/kg	1	1810452	"	10/30/18	EPA 8015M	

Date Sampled: **10/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.3 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS02
1810388-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.021**	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	**0.015**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.086**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**15**	0.10	"	10	"	"	"	"	
Naphthalene	**0.033**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**210**	50	"	10	"	"	"	"	

Date Sampled: **10/30/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*125 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*148 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**120**	50	mg/kg	1	1810452	"	10/30/18	EPA 8015M	

Date Sampled: **10/30/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS03
1810388-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.064**	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	**0.0054**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.29**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**30**	1.0	"	100	"	"	"	"	
Naphthalene	**0.12**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**860**	50	"	100	"	"	"	"	

Date Sampled: **10/30/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*88.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*87.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*135 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**150**	50	mg/kg	1	1810452	"	10/30/18	EPA 8015M	

Date Sampled: **10/30/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CSO4
1810388-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0084**	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**14**	0.10	"	10	"	"	"	"	
Naphthalene	**0.13**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**720**	500	"	10	"	"	"	"	

Date Sampled: **10/30/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*147 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*203 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**190**	50	mg/kg	1	1810452	"	10/31/18	EPA 8015M	

Date Sampled: **10/30/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CSO5
1810388-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.74**	0.020	mg/kg	10	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	**0.50**	0.0050	"	1	"	"	"	"	
Ethylbenzene	**0.52**	0.050	"	10	"	"	"	"	
Xylenes (total)	**22**	0.10	"	"	"	"	"	"	
Naphthalene	**0.17**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**290**	50	"	10	"	"	"	"	

Date Sampled: **10/30/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*121 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**220**	50	mg/kg	1	1810452	"	10/31/18	EPA 8015M	

Date Sampled: **10/30/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.1 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CSO6
1810388-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.43**	0.010	"	"	"	"	"	"	
Naphthalene	**0.021**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*80.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*130 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*120 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**97**	50	mg/kg	1	1810452	"	10/31/18	EPA 8015M	

Date Sampled: **10/30/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CSO7
1810388-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.55**	0.010	"	"	"	"	"	"	
Naphthalene	**0.012**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*74.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*112 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*138 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**65**	50	mg/kg	1	1810452	"	10/31/18	EPA 8015M	

Date Sampled: **10/30/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CSO8
1810388-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0074**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.51**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*167 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810452	"	10/31/18	EPA 8015M	

Date Sampled: **10/30/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CSO9
1810388-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.15**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*177 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**71**	50	mg/kg	1	1810452	"	10/31/18	EPA 8015M	

Date Sampled: **10/30/18 11:10**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS10
1810388-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/18 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1810451	10/30/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.17**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/18 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*176 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/18 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810452	"	10/31/18	EPA 8015M	

Date Sampled: **10/30/18 11:52**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS18@6'
1810406-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.054**	0.0020	mg/kg	1	1810472	10/31/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.028**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.14**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.7 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS18@8.5'
1810406-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.38**	0.0020	mg/kg	1	1810472	10/31/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.67**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**18**	0.10	"	10	"	"	"	"	
Naphthalene	**0.17**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**220**	50	"	10	"	"	"	"	

Date Sampled: **10/31/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*132 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*137 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**130**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS19@6'
1810406-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.70**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**3.3**	0.50	"	100	"	"	"	"	
Xylenes (total)	**34**	1.0	"	"	"	"	"	"	
Naphthalene	**0.34**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**1300**	50	"	100	"	"	"	"	

Date Sampled: **10/31/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*131 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*162 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**290**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.2 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS19@8.5'
1810406-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.52**	0.0020	mg/kg	1	1810472	10/31/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**2.8**	0.050	"	10	"	"	"	"	
Xylenes (total)	**29**	0.10	"	"	"	"	"	"	
Naphthalene	**0.22**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**410**	50	"	10	"	"	"	"	

Date Sampled: **10/31/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*162 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*187 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**270**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.1 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS20@6'
1810406-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.052**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**8.6**	0.10	"	10	"	"	"	"	
Naphthalene	**0.027**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**66**	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*157 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**240**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.8 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS20@8.5'
1810406-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.089**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.34**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**15**	0.10	"	10	"	"	"	"	
Naphthalene	**0.077**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**76**	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*150 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**130**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*95.2 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS21@6'
1810406-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.075**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.29**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**13**	0.10	"	10	"	"	"	"	
Naphthalene	**0.10**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**80**	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*154 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**240**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.3 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS21@8.5'
1810406-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.18**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.095**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.4**	0.010	"	"	"	"	"	"	
Naphthalene	**0.025**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*132 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.4 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS22@6'
1810406-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.068**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.41**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**14**	0.10	"	10	"	"	"	"	
Naphthalene	**0.086**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**80**	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**140**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:10**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS22@8.5'
1810406-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.31**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.79**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**55**	1.0	"	100	"	"	"	"	
Naphthalene	**0.14**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**850**	50	"	10	"	"	"	"	

Date Sampled: **10/31/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*133 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*163 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**220**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:15**

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

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS23@9'
1810406-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.13**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.4**	0.010	"	"	"	"	"	"	
Naphthalene	**0.039**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*92.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*151 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**52**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:20**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS24@9'
1810406-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.23**	0.0020	mg/kg	1	1810472	10/31/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.69**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**15**	0.10	"	10	"	"	"	"	
Naphthalene	**0.13**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**83**	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 16:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*150 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**200**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS25@9'
1810406-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.064**	0.0020	mg/kg	1	1810472	10/31/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.059**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.0**	0.010	"	"	"	"	"	"	
Naphthalene	**0.024**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*78.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*109 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:30**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS26@9'
1810406-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.47**	0.0020	mg/kg	1	1810472	10/31/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**1.2**	0.050	"	10	"	"	"	"	
Xylenes (total)	**19**	0.10	"	"	"	"	"	"	
Naphthalene	**0.18**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**150**	50	"	10	"	"	"	"	

Date Sampled: **10/31/18 16:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*127 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**240**	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:35**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS27@9'
1810406-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/18 16:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.063**	0.0020	mg/kg	1	1810472	10/31/18	10/31/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0098**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.14**	0.010	"	"	"	"	"	"	
Naphthalene	**0.020**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/18 16:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*78.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/18 16:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1810471	"	10/31/18	EPA 8015M	

Date Sampled: **10/31/18 16:40**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS28@6'
1811005-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.26**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.098**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**3.1**	1.0	"	100	"	"	"	"	
Naphthalene	**0.012**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**62**	50	mg/kg	1	1811022	11/01/18	11/01/18	EPA 8015M	

Date Sampled: **11/01/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.5 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS28@8.5'
1811005-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.14**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.29**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**2.0**	1.0	"	100	"	"	"	"	
Naphthalene	**0.075**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**120**	50	mg/kg	1	1811022	11/01/18	11/01/18	EPA 8015M	

Date Sampled: **11/01/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS29@6'
1811005-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.051**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.15**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**5.7**	1.0	"	100	"	"	"	"	
Naphthalene	**0.042**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**83**	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**260**	50	mg/kg	1	1811022	11/01/18	11/01/18	EPA 8015M	

Date Sampled: **11/01/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS29@8.5'
1811005-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.12**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	**0.0078**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.58**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**15**	1.0	"	100	"	"	"	"	
Naphthalene	**0.15**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**420**	50	"	100	"	"	"	"	

Date Sampled: **11/01/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*122 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**260**	50	mg/kg	1	1811022	11/01/18	11/01/18	EPA 8015M	

Date Sampled: **11/01/18 10:15**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS30@6'
1811005-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811021	11/01/18	11/01/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.012**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS30@8.5'
1811005-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.57**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	**0.0060**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.72**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**5.1**	1.0	"	100	"	"	"	"	
Naphthalene	**0.13**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**230**	50	"	100	"	"	"	"	

Date Sampled: **11/01/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**160**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS31@6'
1811005-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0076**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.32**	0.010	"	"	"	"	"	"	
Naphthalene	**0.034**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*135 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**150**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS31@8.5'
1811005-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.32**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	**0.0050**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.66**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**41**	1.0	"	100	"	"	"	"	
Naphthalene	**0.11**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**800**	50	"	100	"	"	"	"	

Date Sampled: **11/01/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*131 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**190**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS32@6'
1811005-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0073**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**7.3**	1.0	"	100	"	"	"	"	
Naphthalene	**0.12**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**360**	50	"	100	"	"	"	"	

Date Sampled: **11/01/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*127 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**300**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS32@8.5'
1811005-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.020**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.076**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.3**	0.010	"	"	"	"	"	"	
Naphthalene	**0.073**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**53**	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*125 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*162 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**170**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS33@10'
1811005-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.13**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.24**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**3.3**	1.0	"	100	"	"	"	"	
Naphthalene	**0.046**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**84**	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*139 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**160**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS34@10'
1811005-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.022**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.022**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.30**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 13:05**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS35@10'
1811005-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.043**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0085**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.13**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*109 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*123 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**200**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*116 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS36@10'
1811005-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.21**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.34**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**7.9**	1.0	"	100	"	"	"	"	
Naphthalene	**0.089**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**83**	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*128 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 13:15**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS37@10'
1811005-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.058**	0.0020	mg/kg	1	1811021	11/01/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.068**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.0**	0.010	"	"	"	"	"	"	
Naphthalene	**0.047**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*151 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**90**	50	mg/kg	1	1811022	11/01/18	11/02/18	EPA 8015M	

Date Sampled: **11/01/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS03R
1811032-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811038	11/02/18	11/02/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0079**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.30**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*92.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*202 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**100**	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.2 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS04R
1811032-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.048**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	**0.028**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.22**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**8.3**	0.10	"	10	"	"	11/03/18	"	
Naphthalene	**0.069**	0.010	"	1	"	"	11/03/18	"	
Gasoline Range Hydrocarbons	**95**	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*150 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*394 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**100**	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS05R
1811032-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.015**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	**0.022**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.038**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**10**	0.10	"	10	"	"	11/03/18	"	
Naphthalene	**0.034**	0.010	"	1	"	"	11/03/18	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*175 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS38@10'
1811032-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.026**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.011**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.16**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS39@10'
1811032-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.056**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.068**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.70**	0.010	"	"	"	"	"	"	
Naphthalene	**0.023**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*143 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.6 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS40@10'
1811032-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.047**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0066**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.085**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS41@10'
1811032-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.10**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	**0.012**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.089**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**2.7**	0.10	"	10	"	"	"	"	
Naphthalene	**0.016**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*151 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS42@10'
1811032-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.19**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	**0.30**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.31**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**7.7**	1.0	"	100	"	"	11/03/18	"	
Naphthalene	**0.097**	0.010	"	1	"	"	11/03/18	"	
Gasoline Range Hydrocarbons	**50**	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*221 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**310**	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.9 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS43@10'
1811032-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.041**	0.0020	mg/kg	1	1811038	11/02/18	11/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.065**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.2**	0.010	"	"	"	"	"	"	
Naphthalene	**0.043**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*138 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1811039	11/02/18	11/03/18	EPA 8015M	

Date Sampled: **11/02/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*95.2 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS11
1811046-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.016**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.020**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.14**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**5.6**	0.10	"	10	"	"	"	"	
Naphthalene	**0.049**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*149 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.5 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS12
1811046-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.023**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.0082**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.18**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**8.3**	0.10	"	10	"	"	"	"	
Naphthalene	**0.059**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*155 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.0 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS13
1811046-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.025**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.059**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.20**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**8.7**	0.10	"	10	"	"	"	"	
Naphthalene	**0.063**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*165 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.1 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS14
1811046-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.11**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.063**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.14**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**10**	0.10	"	10	"	"	"	"	
Naphthalene	**0.060**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*142 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*145 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS15
1811046-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.010**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.018**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.12**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.1**	0.10	"	10	"	"	"	"	
Naphthalene	**0.053**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*142 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS16
1811046-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.029**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.021**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.22**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**8.9**	0.10	"	10	"	"	"	"	
Naphthalene	**0.059**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**62**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*137 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS17
1811046-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.045**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.055**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.18**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**13**	0.10	"	10	"	"	"	"	
Naphthalene	**0.060**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*166 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS18
1811046-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.047**	0.0020	mg/kg	1	1811054	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.026**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.29**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**7.1**	0.10	"	10	"	"	"	"	
Naphthalene	**0.063**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**57**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*137 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811055	"	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*107 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS19
1811046-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0091**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.056**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.23**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**12**	0.10	"	10	"	"	"	"	
Naphthalene	**0.066**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**81**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*145 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*143 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS20
1811046-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0078**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.025**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.097**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**14**	0.10	"	10	"	"	"	"	
Naphthalene	**0.052**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*144 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:25**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS21
1811046-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.25**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.036**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.76**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**13**	0.10	"	10	"	"	"	"	
Naphthalene	**0.10**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**260**	50	"	10	"	"	"	"	

Date Sampled: **11/05/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*162 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*139 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**66**	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*108 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS22
1811046-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.23**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	**0.25**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.46**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**49**	1.0	"	100	"	"	"	"	
Naphthalene	**0.054**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*167 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:35**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS44@10'
1811046-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.086**	0.0020	mg/kg	1	1811058	11/05/18	11/05/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.011**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.16**	0.010	"	"	"	"	"	"	
Naphthalene	**0.011**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*107 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS45@6'
1811046-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.80**	0.020	mg/kg	10	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	**2.3**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**58**	1.0	"	100	"	"	"	"	
Naphthalene	**0.51**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**440**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*92.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*161 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**780**	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS45@8.5'
1811046-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.37**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.60**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**18**	0.10	"	10	"	"	"	"	
Naphthalene	**0.13**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**78**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*147 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**140**	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 13:55**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS46@6'
1811046-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.13**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.80**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**79**	1.0	"	100	"	"	"	"	
Naphthalene	**0.24**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**160**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*131 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**160**	50	mg/kg	1	1811059	11/05/18	11/05/18	EPA 8015M	

Date Sampled: **11/05/18 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS46@8.5'
1811046-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.16**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.68**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**14**	0.10	"	10	"	"	"	"	
Naphthalene	**0.13**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**90**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*125 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*163 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**190**	50	mg/kg	1	1811059	11/05/18	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*108 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS47@6'
1811046-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.042**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.036**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.50**	0.010	"	"	"	"	"	"	
Naphthalene	**0.019**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1811059	11/05/18	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*108 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS47@8.5'
1811046-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.12**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.030**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.38**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811059	11/05/18	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS48@6'
1811046-20 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0061**	0.0020	mg/kg	1	1811058	11/05/18	11/05/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.15**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**9.3**	0.10	"	10	"	"	"	"	
Naphthalene	**0.060**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*121 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*153 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**200**	50	mg/kg	1	1811059	11/05/18	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS48@8.5'
1811046-21 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.069**	0.0020	mg/kg	1	1811058	11/05/18	11/05/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.012**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.16**	0.010	"	"	"	"	"	"	
Naphthalene	**0.015**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811059	11/05/18	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS49@6'
1811046-22 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.072**	0.0020	mg/kg	1	1811058	11/05/18	11/05/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.50**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.20**	0.010	"	"	"	"	"	"	
Naphthalene	**0.11**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**80**	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*149 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*143 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**360**	50	mg/kg	1	1811059	11/05/18	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS49@8.5'
1811046-23 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/05/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.13**	0.0020	mg/kg	1	1811058	11/05/18	11/06/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.013**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.19**	0.010	"	"	"	"	"	"	
Naphthalene	**0.016**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/05/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/05/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811059	11/05/18	11/06/18	EPA 8015M	

Date Sampled: **11/05/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB18
1811082-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811111	11/08/18	11/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811112	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1260**	10.7	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	
Magnesium	**685**	5.35	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB18
1811082-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**64.6**	5.35	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.364**	0.100	units	1	1811152	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.5**		%	1	1811116	11/08/18	11/08/18	Calculation	
pH	**7.81**		pH Units	"	1811117	11/08/18	11/08/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/07/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.867**	0.0100	mmhos/cm	1	1811118	11/08/18	11/08/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB19
1811082-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811111	11/08/18	11/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811112	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*107 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1710**	10.7	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	
Magnesium	**512**	5.37	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB19
1811082-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**41.9**	5.37	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.228**	0.100	units	1	1811152	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.1**		%	1	1811116	11/08/18	11/08/18	Calculation	
pH	**8.13**		pH Units	"	1811117	11/08/18	11/08/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/07/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.710**	0.0100	mmhos/cm	1	1811118	11/08/18	11/08/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB20
1811082-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811111	11/08/18	11/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811112	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*117 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1390**	10.8	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	
Magnesium	**474**	5.38	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB20
1811082-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**39.4**	5.38	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.233**	0.100	units	1	1811152	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.9**		%	1	1811116	11/08/18	11/08/18	Calculation	
pH	**8.03**		pH Units	"	1811117	11/08/18	11/08/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/07/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.748**	0.0100	mmhos/cm	1	1811118	11/08/18	11/08/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB21
1811082-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811111	11/08/18	11/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811112	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1610**	10.9	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	
Magnesium	**468**	5.43	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB21
1811082-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**72.2**	5.43	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.407**	0.100	units	1	1811152	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.1**		%	1	1811116	11/08/18	11/08/18	Calculation	
pH	**8.09**		pH Units	"	1811117	11/08/18	11/08/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/07/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.846**	0.0100	mmhos/cm	1	1811118	11/08/18	11/08/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB22
1811082-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811111	11/08/18	11/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811112	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1490**	10.7	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	
Magnesium	**455**	5.36	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB22
1811082-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**93.3**	5.36	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.543**	0.100	units	1	1811152	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.3**		%	1	1811116	11/08/18	11/08/18	Calculation	
pH	**7.93**		pH Units	"	1811117	11/08/18	11/08/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/07/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.963**	0.0100	mmhos/cm	1	1811118	11/08/18	11/08/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB23
1811082-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811111	11/08/18	11/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811112	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1280**	10.6	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	
Magnesium	**357**	5.32	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB23
1811082-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**49.6**	5.32	mg/kg dry	1	1811120	11/08/18	11/08/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.316**	0.100	units	1	1811152	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**94.0**		%	1	1811116	11/08/18	11/08/18	Calculation	
pH	**7.99**		pH Units	"	1811117	11/08/18	11/08/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/07/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.938**	0.0100	mmhos/cm	1	1811118	11/08/18	11/08/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS21R
1811092-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811124	11/08/18	11/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.036**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.74**	0.010	"	"	"	"	"	"	
Naphthalene	**0.023**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*141 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811125	11/08/18	11/08/18	EPA 8015M	

Date Sampled: **11/08/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS22R
1811092-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.022**	0.0020	mg/kg	1	1811124	11/08/18	11/09/18	EPA 8260B	
Toluene	**0.016**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**7.6**	0.10	"	10	"	"	"	"	
Naphthalene	**0.034**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811125	11/08/18	11/08/18	EPA 8015M	

Date Sampled: **11/08/18 14:15**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS23
1811092-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.025**	0.0020	mg/kg	1	1811124	11/08/18	11/09/18	EPA 8260B	
Toluene	**0.021**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.11**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.2**	0.10	"	10	"	"	"	"	
Naphthalene	**0.025**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811125	11/08/18	11/08/18	EPA 8015M	

Date Sampled: **11/08/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.4 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS24
1811092-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.015**	0.0020	mg/kg	1	1811124	11/08/18	11/09/18	EPA 8260B	
Toluene	**0.013**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.12**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.2**	0.10	"	10	"	"	"	"	
Naphthalene	**0.032**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*160 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811125	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/08/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS25
1811092-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.021**	0.0020	mg/kg	1	1811124	11/08/18	11/09/18	EPA 8260B	
Toluene	**0.016**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**3.7**	0.10	"	10	"	"	"	"	
Naphthalene	**0.041**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*130 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*145 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811125	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/08/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS26
1811092-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.036**	0.0020	mg/kg	1	1811124	11/08/18	11/09/18	EPA 8260B	
Toluene	**0.017**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.25**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**10**	0.10	"	10	"	"	"	"	
Naphthalene	**0.053**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*143 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*141 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811125	11/08/18	11/09/18	EPA 8015M	

Date Sampled: **11/08/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB24
1811096-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.3 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**4270**	11.2	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**441**	5.59	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB24
1811096-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**42.0**	5.59	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.164**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.4**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.58**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.616**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB25
1811096-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.2 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**5870**	11.3	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**448**	5.63	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB25
1811096-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**51.9**	5.63	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.176**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.9**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.49**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.574**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB26
1811096-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.5 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**4170**	11.0	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**395**	5.48	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB26
1811096-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**45.0**	5.48	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.178**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.2**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.50**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.539**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB27
1811096-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*85.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.7 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3400**	10.9	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**347**	5.43	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB27
1811096-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**27.8**	5.43	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.121**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.1**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.52**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.506**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB28

1811096-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*81.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.2 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3180**	11.0	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**359**	5.48	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB28
1811096-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**39.4**	5.48	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.177**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.2**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.52**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.569**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB29
1811096-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 12:55**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2920**	10.9	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**327**	5.43	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB29
1811096-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**44.3**	5.43	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.207**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.1**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.45**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.956**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB30
1811096-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*107 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3680**	11.0	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**339**	5.51	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB30
1811096-07 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**38.1**	5.51	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.161**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.7**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.46**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.522**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB31
1811096-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.6 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3640**	11.1	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**359**	5.54	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB31
1811096-08 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**47.3**	5.54	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.200**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.2**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.38**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.709**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB32
1811096-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.2 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3630**	11.7	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**338**	5.83	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB32
1811096-09 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**22.6**	5.83	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85.8**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.36**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.639**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB33
1811096-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811134	11/09/18	11/10/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811133	"	11/10/18	EPA 8015M	

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.6 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3270**	11.1	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	
Magnesium	**330**	5.55	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB33
1811096-10 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**39.5**	5.55	mg/kg dry	1	1811141	11/09/18	11/09/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.176**	0.100	units	1	1811151	11/12/18	11/12/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.1**		%	1	1811128	11/09/18	11/09/18	Calculation	
pH	**8.46**		pH Units	"	1811129	11/09/18	11/09/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/08/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.501**	0.0100	mmhos/cm	1	1811130	11/09/18	11/09/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB34
1811111-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.9 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**3860**	11.2	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**437**	5.61	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB34
1811111-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**56.8**	5.61	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.231**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.0**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.61**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.480**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB35
1811111-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*76.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.2 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**2840**	11.1	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**377**	5.55	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB35
1811111-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**48.1**	5.55	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.225**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.1**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.51**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.485**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB36
1811111-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*75.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*95.5 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**4120**	11.2	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**398**	5.60	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB36
1811111-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**58.5**	5.60	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.233**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.3**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.49**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.436**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB37
1811111-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*80.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.8 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**5350**	11.3	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**428**	5.64	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB37

1811111-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**98.6**	5.64	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.349**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.6**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.58**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.430**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB38
1811111-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.9 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**9970**	11.7	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**447**	5.86	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB38
1811111-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**65.1**	5.86	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.173**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85.3**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.54**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.526**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB39
1811111-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*81.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.4 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**8710**	11.3	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**571**	5.64	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB39
1811111-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**67.0**	5.64	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.188**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.7**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.45**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.543**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB40
1811111-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*79.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.7 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**9090**	11.3	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**456**	5.64	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB40
1811111-07 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**57.1**	5.64	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.158**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.6**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.44**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.593**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB41
1811111-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*80.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 10:55**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**15100**	11.8	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**727**	5.90	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB41
1811111-08 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**65.4**	5.90	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.141**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84.7**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.46**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.560**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB42
1811111-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*81.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.2 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1270**	10.8	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**263**	5.38	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB42
1811111-09 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**41.4**	5.38	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.276**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.9**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.31**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.768**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB43
1811111-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.4 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1380**	10.8	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**331**	5.42	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB43
1811111-10 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**55.7**	5.42	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.350**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.2**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.25**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.719**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB44
1811111-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.4 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1630**	11.0	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**346**	5.51	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB44
1811111-11 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**46.2**	5.51	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.271**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.8**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.29**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.703**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB45
1811111-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.5 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1150**	10.9	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**302**	5.43	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB45
1811111-12 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**38.6**	5.43	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.262**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.1**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.30**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.596**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB46
1811111-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*84.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.1 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1460**	11.0	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**328**	5.50	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB46
1811111-13 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**33.7**	5.50	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.207**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.9**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.15**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.708**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB47
1811111-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*84.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.5 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/14/18	EPA 8015M	

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.0 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**819**	10.9	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**275**	5.47	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB47
1811111-14 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**44.4**	5.47	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.343**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.4**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.29**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.624**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB48
1811111-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/14/18	EPA 8015M	

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.6 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1690**	10.9	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	
Magnesium	**326**	5.43	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB48
1811111-15 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**46.3**	5.43	mg/kg dry	1	1811153	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.270**	0.100	units	1	1811168	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.0**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.32**		pH Units	"	1811156	11/12/18	11/12/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.671**	0.0100	mmhos/cm	1	1811159	11/12/18	11/12/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB49
1811111-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/14/18	EPA 8015M	

Date Sampled: **11/09/18 13:25**

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

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**964**	10.8	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	
Magnesium	**303**	5.41	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB49
1811111-16 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**32.4**	5.41	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.233**	0.100	units	1	1811169	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.5**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**7.94**		pH Units	"	1811176	11/14/18	11/14/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.766**	0.0100	mmhos/cm	1	1811175	11/14/18	11/15/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB50
1811111-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*85.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/14/18	EPA 8015M	

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.9 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1640**	10.8	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	
Magnesium	**329**	5.40	"	"	"	"	"	"	

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.

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB50
1811111-17 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**42.4**	5.40	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.250**	0.100	units	1	1811169	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.6**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**7.69**		pH Units	"	1811176	11/14/18	11/14/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.04**	0.0100	mmhos/cm	1	1811175	11/14/18	11/15/18	EPA 120.1	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB51
1811111-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/14/18	EPA 8015M	

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*123 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**4460**	11.0	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	
Magnesium	**379**	5.50	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB51
1811111-18 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**34.6**	5.50	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.134**	0.100	units	1	1811169	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.0**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**7.97**		pH Units	"	1811176	11/14/18	11/14/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.762**	0.0100	mmhos/cm	1	1811175	11/14/18	11/15/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB52
1811111-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811148	11/12/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*84.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811146	11/12/18	11/14/18	EPA 8015M	

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*95.0 %*	*30-150*		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**1310**	10.9	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	
Magnesium	**316**	5.44	"	"	"	"	"	"	

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 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

OB52
1811111-19 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	**41.3**	5.44	mg/kg dry	1	1811154	11/12/18	11/12/18	EPA 6020B	

Calculated Analysis

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.266**	0.100	units	1	1811169	11/13/18	11/13/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.9**		%	1	1811161	11/12/18	11/13/18	Calculation	
pH	**8.00**		pH Units	"	1811176	11/14/18	11/14/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/09/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.792**	0.0100	mmhos/cm	1	1811175	11/14/18	11/15/18	EPA 120.1	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS27
1811123-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.039**	0.0020	mg/kg	1	1811164	11/12/18	11/12/18	EPA 8260B	
Toluene	**0.074**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.24**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**9.1**	0.10	"	10	"	"	"	"	
Naphthalene	**0.036**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*146 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811163	11/12/18	11/12/18	EPA 8015M	

Date Sampled: **11/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*76.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS28
1811123-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.016**	0.0020	mg/kg	1	1811164	11/12/18	11/12/18	EPA 8260B	
Toluene	**0.019**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.077**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.010	"	"	"	"	"	"	
Naphthalene	**0.019**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*138 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811163	11/12/18	11/12/18	EPA 8015M	

Date Sampled: **11/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS29
1811123-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.012**	0.0020	mg/kg	1	1811164	11/12/18	11/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.074**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.67**	0.010	"	"	"	"	"	"	
Naphthalene	**0.021**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*88.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*143 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811163	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*76.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS30
1811123-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.044**	0.0020	mg/kg	1	1811164	11/12/18	11/12/18	EPA 8260B	
Toluene	**0.048**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.22**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.3**	0.10	"	10	"	"	"	"	
Naphthalene	**0.035**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*92.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*137 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811163	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*76.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS31
1811123-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/12/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.011**	0.0020	mg/kg	1	1811164	11/12/18	11/12/18	EPA 8260B	
Toluene	**0.011**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.086**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.010	"	"	"	"	"	"	
Naphthalene	**0.025**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/12/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*157 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/12/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811163	11/12/18	11/13/18	EPA 8015M	

Date Sampled: **11/12/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS50@6'
1811146-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/13/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811171	11/13/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/13/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/13/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811172	"	11/13/18	EPA 8015M	

Date Sampled: **11/13/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS50@8.5'
1811146-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/13/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.018**	0.0020	mg/kg	1	1811171	11/13/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.036**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.51**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/13/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/13/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811172	"	11/13/18	EPA 8015M	

Date Sampled: **11/13/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS51@10'
1811146-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/13/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811171	11/13/18	11/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/13/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/13/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811172	"	11/13/18	EPA 8015M	

Date Sampled: **11/13/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*89.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS32
1811146-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/13/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.029**	0.0020	mg/kg	1	1811171	11/13/18	11/13/18	EPA 8260B	
Toluene	**0.013**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.12**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**3.7**	0.10	"	10	"	"	"	"	
Naphthalene	**0.025**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/13/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*140 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/13/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811172	"	11/13/18	EPA 8015M	

Date Sampled: **11/13/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*87.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS33
1811146-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/13/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.028**	0.0020	mg/kg	1	1811171	11/13/18	11/13/18	EPA 8260B	
Toluene	**0.0088**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**2.4**	0.10	"	10	"	"	"	"	
Naphthalene	**0.022**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/13/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*92.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*137 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/13/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811172	"	11/13/18	EPA 8015M	

Date Sampled: **11/13/18 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS52@6'
1811158-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811191	11/14/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0085**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.15**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811192	11/14/18	11/14/18	EPA 8015M	

Date Sampled: **11/14/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS52@8.5'
1811158-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0032**	0.0020	mg/kg	1	1811191	11/14/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.052**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.72**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*152 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811192	11/14/18	11/14/18	EPA 8015M	

Date Sampled: **11/14/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS53@6'
1811158-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.037**	0.0020	mg/kg	1	1811191	11/14/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**1.1**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**13**	0.10	"	10	"	"	"	"	
Naphthalene	**0.15**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**86**	50	"	10	"	"	"	"	

Date Sampled: **11/14/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*126 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**66**	50	mg/kg	1	1811192	11/14/18	11/14/18	EPA 8015M	

Date Sampled: **11/14/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS53@8.5'
1811158-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811191	11/14/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.077**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*141 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**200**	50	mg/kg	1	1811192	11/14/18	11/14/18	EPA 8015M	

Date Sampled: **11/14/18 11:05**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS34
1811158-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0052**	0.0020	mg/kg	1	1811191	11/14/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.062**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.83**	0.010	"	"	"	"	"	"	
Naphthalene	**0.015**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*144 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811192	11/14/18	11/14/18	EPA 8015M	

Date Sampled: **11/14/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS35
1811158-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0098**	0.0020	mg/kg	1	1811191	11/14/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.083**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.97**	0.010	"	"	"	"	"	"	
Naphthalene	**0.022**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*154 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811192	11/14/18	11/15/18	EPA 8015M	

Date Sampled: **11/14/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*122 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS36
1811158-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0056**	0.0020	mg/kg	1	1811191	11/14/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.046**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.65**	0.010	"	"	"	"	"	"	
Naphthalene	**0.016**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*130 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811192	11/14/18	11/15/18	EPA 8015M	

Date Sampled: **11/14/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS37
1811158-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0041**	0.0020	mg/kg	1	1811191	11/14/18	11/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.063**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.83**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811192	11/14/18	11/15/18	EPA 8015M	

Date Sampled: **11/14/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS54@6'
1811177-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*94.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS54@8.5'
1811177-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/16/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.17**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.9**	0.10	"	10	"	"	"	"	
Naphthalene	**0.060**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**53**	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**140**	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS55@6'
1811177-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS55@8.5
1811177-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0075**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.087**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*121 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**67**	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS56@6'
1811177-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*88.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS56@8.5'
1811177-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/16/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.029**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.38**	0.010	"	"	"	"	"	"	
Naphthalene	**0.011**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*146 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*87.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS57@10'
1811177-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS58@12'
1811177-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/15/18	EPA 8015M	

Date Sampled: **11/15/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*84.9 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS59@10'
1811177-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*81.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*81.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS60@10'
1811177-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*78.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS61@10'
1811177-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0052**	0.0020	mg/kg	1	1811209	11/15/18	11/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.012**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*83.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS38
1811177-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0032**	0.0020	mg/kg	1	1811209	11/15/18	11/16/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.053**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.77**	0.010	"	"	"	"	"	"	
Naphthalene	**0.013**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*138 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.5 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS39
1811177-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.024**	0.0020	mg/kg	1	1811209	11/15/18	11/16/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.25**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**17**	0.10	"	10	"	"	"	"	
Naphthalene	**0.035**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*144 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.8 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS40
1811177-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0054**	0.0020	mg/kg	1	1811209	11/15/18	11/16/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.088**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.3**	0.10	"	10	"	"	"	"	
Naphthalene	**0.018**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*147 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*81.9 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS41
1811177-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811209	11/15/18	11/16/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.055**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.78**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS42
1811177-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.018**	0.0020	mg/kg	1	1811209	11/15/18	11/16/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.14**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.4**	0.10	"	10	"	"	"	"	
Naphthalene	**0.019**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*166 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811210	11/15/18	11/16/18	EPA 8015M	

Date Sampled: **11/15/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*84.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS43
1811238-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811284	11/21/18	11/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.025**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.079**	0.010	"	"	"	"	"	"	
Naphthalene	**0.010**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*146 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811283	11/21/18	11/22/18	EPA 8015M	

Date Sampled: **11/20/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*81.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS44
1811238-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811284	11/21/18	11/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.051**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.17**	0.010	"	"	"	"	"	"	
Naphthalene	**0.020**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*134 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811283	11/21/18	11/22/18	EPA 8015M	

Date Sampled: **11/20/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS45
1811238-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811284	11/21/18	11/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	11/22/18	"	
Ethylbenzene	**0.025**	0.0050	"	"	"	"	11/22/18	"	
Xylenes (total)	**0.19**	0.010	"	"	"	"	"	"	
Naphthalene	**0.021**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*158 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811283	11/21/18	11/22/18	EPA 8015M	

Date Sampled: **11/20/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*83.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS46
1811238-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811284	11/21/18	11/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.021**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.045**	0.010	"	"	"	"	"	"	
Naphthalene	**0.011**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*142 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811283	11/21/18	11/22/18	EPA 8015M	

Date Sampled: **11/20/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS47
1811238-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811284	11/21/18	11/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0073**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.14**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811283	11/21/18	11/22/18	EPA 8015M	

Date Sampled: **11/20/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*82.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS48
1811238-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0030**	0.0020	mg/kg	1	1811284	11/21/18	11/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0068**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.094**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*157 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811283	11/21/18	11/22/18	EPA 8015M	

Date Sampled: **11/20/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*84.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS49
1811238-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0037**	0.0020	mg/kg	1	1811284	11/21/18	11/22/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.022**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.16**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*134 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811283	11/21/18	11/22/18	EPA 8015M	

Date Sampled: **11/20/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*83.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS50
1811238-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0035**	0.0020	mg/kg	1	1811267	11/20/18	11/20/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.012**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.18**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*132 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811268	11/20/18	11/20/18	EPA 8015M	

Date Sampled: **11/20/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.5 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS62@6'
1811285-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811315	11/26/18	11/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*84.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*155 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811316	11/26/18	11/27/18	EPA 8015M	

Date Sampled: **11/26/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS62@8.5'
1811285-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/26/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0071**	0.0020	mg/kg	1	1811315	11/26/18	11/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.10**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.2**	0.010	"	"	"	"	"	"	
Naphthalene	**0.026**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/26/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*92.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*163 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/26/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**57**	50	mg/kg	1	1811316	11/26/18	11/27/18	EPA 8015M	

Date Sampled: **11/26/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS63@10'
1811285-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/26/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811315	11/26/18	11/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/26/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/26/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811316	11/26/18	11/27/18	EPA 8015M	

Date Sampled: **11/26/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS64@10'
1811285-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/26/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.31**	0.0020	mg/kg	1	1811315	11/26/18	11/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.052**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.48**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/26/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*85.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/26/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811316	11/26/18	11/27/18	EPA 8015M	

Date Sampled: **11/26/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*84.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS65@10'
1811285-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/26/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.060**	0.0020	mg/kg	1	1811315	11/26/18	11/26/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.026**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.24**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/26/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/26/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811316	11/26/18	11/27/18	EPA 8015M	

Date Sampled: **11/26/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.8 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS66@12'
1811300-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/27/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.030**	0.0020	mg/kg	1	1811333	11/27/18	11/27/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.035**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/27/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/27/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811334	"	11/27/18	EPA 8015M	

Date Sampled: **11/27/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.3 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS67@6'
1811326-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.040**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**0.017**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.54**	0.050	"	10	"	"	"	"	
Xylenes (total)	**10**	0.10	"	"	"	"	"	"	
Naphthalene	**0.28**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**110**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*86.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*79.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**180**	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS67@8.5'
1811326-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.028**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.27**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**8.7**	0.10	"	10	"	"	"	"	
Naphthalene	**0.085**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*128 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**79**	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*82.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS68@10'
1811326-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.13**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.022**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.29**	0.010	"	"	"	"	"	"	
Naphthalene	**0.011**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*116 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*82.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS69@10'
1811326-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.011**	0.0020	mg/kg	1	1811363	11/28/18	11/28/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*79.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS70@6'
1811326-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.012**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.10**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*141 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**54**	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*79.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS70@8.5'-1
1811326-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0051**	0.0020	mg/kg	1	1811363	11/28/18	11/28/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0077**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.099**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*79.5 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS70@10'
1811326-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0070**	0.0020	mg/kg	1	1811363	11/28/18	11/28/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0092**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.12**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*77.9 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS51
1811326-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.37**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**7.4**	0.050	"	10	"	"	"	"	
Ethylbenzene	**0.63**	0.0050	"	1	"	"	"	"	
Xylenes (total)	**30**	0.10	"	10	"	"	"	"	E
Naphthalene	**0.092**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**320**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*164 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*79.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS52
1811326-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.30**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**2.6**	0.050	"	10	"	"	"	"	
Ethylbenzene	**2.4**	0.050	"	"	"	"	"	"	
Xylenes (total)	**36**	0.10	"	"	"	"	"	"	E
Naphthalene	**0.14**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**370**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*131 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*200 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**88**	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*78.5 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS53
1811326-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.44**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**2.7**	0.050	"	10	"	"	"	"	
Ethylbenzene	**2.3**	0.050	"	"	"	"	"	"	
Xylenes (total)	**34**	0.10	"	"	"	"	"	"	E
Naphthalene	**0.16**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**370**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*154 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*188 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**71**	50	mg/kg	1	1811365	11/28/18	11/28/18	EPA 8015M	

Date Sampled: **11/28/18 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*81.1 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS54
1811326-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.48**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**5.9**	0.050	"	10	"	"	"	"	
Ethylbenzene	**0.53**	0.0050	"	1	"	"	"	"	
Xylenes (total)	**63**	0.10	"	10	"	"	"	"	E
Naphthalene	**0.13**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**700**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*140 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*273 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**84**	50	mg/kg	1	1811365	11/28/18	11/29/18	EPA 8015M	

Date Sampled: **11/28/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*75.7 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS55
1811326-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.19**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**0.74**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.46**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**36**	0.10	"	10	"	"	"	"	E
Naphthalene	**0.089**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**410**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*196 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**93**	50	mg/kg	1	1811365	11/28/18	11/29/18	EPA 8015M	

Date Sampled: **11/28/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*82.2 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS56
1811326-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.49**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**2.5**	0.050	"	10	"	"	"	"	
Ethylbenzene	**2.1**	0.050	"	"	"	"	"	"	
Xylenes (total)	**31**	0.10	"	"	"	"	"	"	E
Naphthalene	**0.18**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**300**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*168 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*178 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**150**	50	mg/kg	1	1811365	11/28/18	11/29/18	EPA 8015M	

Date Sampled: **11/28/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS57
1811326-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.50**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**2.3**	0.050	"	10	"	"	"	"	
Ethylbenzene	**3.1**	0.050	"	"	"	"	"	"	
Xylenes (total)	**44**	0.10	"	"	"	"	"	"	E
Naphthalene	**0.24**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**410**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*205 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**160**	50	mg/kg	1	1811365	11/28/18	11/29/18	EPA 8015M	

Date Sampled: **11/28/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.9 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS58
1811326-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.14**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**0.47**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.53**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**43**	0.10	"	10	"	"	"	"	
Naphthalene	**0.099**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**470**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*124 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*230 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**60**	50	mg/kg	1	1811365	11/28/18	11/29/18	EPA 8015M	

Date Sampled: **11/28/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*76.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS59
1811326-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.45**	0.0020	mg/kg	1	1811363	11/28/18	11/29/18	EPA 8260B	
Toluene	**5.0**	0.050	"	10	"	"	"	"	
Ethylbenzene	**10**	0.050	"	"	"	"	"	"	
Xylenes (total)	**45**	0.10	"	"	"	"	"	"	E
Naphthalene	**0.17**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**430**	50	"	10	"	"	"	"	

Date Sampled: **11/28/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*145 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*208 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**96**	50	mg/kg	1	1811365	11/28/18	11/29/18	EPA 8015M	

Date Sampled: **11/28/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*78.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS71@6'
1812007-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.010**	0.0020	mg/kg	1	1812017	12/03/18	12/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.046**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.75**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**440**	50	"	10	"	"	"	"	

Date Sampled: **12/03/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*149 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**190**	50	mg/kg	1	1812018	12/03/18	12/04/18	EPA 8015M	

Date Sampled: **12/03/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*119 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS71@8.5'
1812007-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.022**	0.0020	mg/kg	1	1812017	12/03/18	12/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.020**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.21**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812018	12/03/18	12/04/18	EPA 8015M	

Date Sampled: **12/03/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*118 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS72@6'
1812007-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812017	12/03/18	12/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812018	12/03/18	12/04/18	EPA 8015M	

Date Sampled: **12/03/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*115 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS72@8.5'
1812007-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.053**	0.0020	mg/kg	1	1812017	12/03/18	12/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.32**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.4**	1.0	"	100	"	"	"	"	
Naphthalene	**0.11**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*122 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**100**	50	mg/kg	1	1812018	12/03/18	12/04/18	EPA 8015M	

Date Sampled: **12/03/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*118 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS52R
1812007-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.23**	0.0020	mg/kg	1	1812017	12/03/18	12/04/18	EPA 8260B	
Toluene	**2.4**	0.050	"	10	"	"	"	"	
Ethylbenzene	**0.38**	0.0050	"	1	"	"	"	"	
Xylenes (total)	**29**	0.10	"	10	"	"	"	"	
Naphthalene	**0.073**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**83**	50	"	"	"	"	"	"	

Date Sampled: **12/03/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*132 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**210**	50	mg/kg	1	1812018	12/03/18	12/04/18	EPA 8015M	

Date Sampled: **12/03/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*125 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS73@6'
1812023-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812034	12/04/18	12/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.017**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.29**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**51**	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*129 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**78**	50	mg/kg	1	1812035	"	12/04/18	EPA 8015M	

Date Sampled: **12/04/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*120 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS73@8.5'
1812023-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.012**	0.0020	mg/kg	1	1812034	12/04/18	12/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.019**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812035	"	12/04/18	EPA 8015M	

Date Sampled: **12/04/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*116 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS74@10'
1812023-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.022**	0.0020	mg/kg	1	1812034	12/04/18	12/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.028**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812035	"	12/04/18	EPA 8015M	

Date Sampled: **12/04/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*122 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS51R2
1812066-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.015**	0.0020	mg/kg	1	1812083	12/06/18	12/07/18	EPA 8260B	
Toluene	**0.22**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.29**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**24**	1.0	"	100	"	"	"	"	
Naphthalene	**0.10**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**64**	50	"	"	"	"	"	"	

Date Sampled: **12/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*165 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**200**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*120 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS52R2
1812066-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.052**	0.0020	mg/kg	1	1812083	12/06/18	12/07/18	EPA 8260B	
Toluene	**0.50**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.32**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**38**	1.0	"	100	"	"	"	"	
Naphthalene	**0.057**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**50**	50	"	"	"	"	"	"	

Date Sampled: **12/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*137 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**54**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*115 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS53R2
1812066-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.10**	0.0020	mg/kg	1	1812083	12/06/18	12/07/18	EPA 8260B	
Toluene	**0.58**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.40**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**19**	1.0	"	100	"	"	"	"	
Naphthalene	**0.095**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**550**	50	"	100	"	"	"	"	

Date Sampled: **12/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**73**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS54R2
1812066-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.060**	0.0020	mg/kg	1	1812083	12/06/18	12/07/18	EPA 8260B	
Toluene	**0.59**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.58**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**32**	1.0	"	100	"	"	"	"	
Naphthalene	**0.098**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**320**	50	"	100	"	"	"	"	

Date Sampled: **12/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*116 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS55R2
1812066-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.073**	0.0020	mg/kg	1	1812083	12/06/18	12/07/18	EPA 8260B	
Toluene	**1.6**	0.50	"	100	"	"	"	"	
Ethylbenzene	**1.6**	0.50	"	"	"	"	"	"	
Xylenes (total)	**31**	1.0	"	"	"	"	"	"	
Naphthalene	**0.092**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**580**	50	"	100	"	"	"	"	

Date Sampled: **12/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*120 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**55**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*115 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS56R2
1812066-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.014**	0.0020	mg/kg	1	1812083	12/06/18	12/07/18	EPA 8260B	
Toluene	**0.10**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.15**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.4**	1.0	"	100	"	"	"	"	
Naphthalene	**0.043**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*127 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**50**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:35**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS57R2
1812066-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.050**	0.0020	mg/kg	1	1812083	12/06/18	12/06/18	EPA 8260B	
Toluene	**0.47**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**1.3**	0.50	"	100	"	"	"	"	
Xylenes (total)	**24**	1.0	"	"	"	"	"	"	
Naphthalene	**0.19**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**75**	50	"	"	"	"	"	"	

Date Sampled: **12/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*136 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*129 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**100**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*115 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS58R2
1812066-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.077**	0.0020	mg/kg	1	1812083	12/06/18	12/06/18	EPA 8260B	
Toluene	**0.37**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.30**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**4.2**	1.0	"	100	"	"	12/06/18	"	
Naphthalene	**0.096**	0.010	"	1	"	"	12/06/18	"	
Gasoline Range Hydrocarbons	**63**	50	"	"	"	"	"	"	

Date Sampled: **12/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*125 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS59R2

1812066-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.017**	0.0020	mg/kg	1	1812083	12/06/18	12/06/18	EPA 8260B	
Toluene	**0.16**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.35**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**26**	1.0	"	100	"	"	12/06/18	"	
Naphthalene	**0.11**	0.010	"	1	"	"	12/06/18	"	
Gasoline Range Hydrocarbons	**65**	50	"	"	"	"	"	"	

Date Sampled: **12/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*139 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**90**	50	mg/kg	1	1812085	12/06/18	12/06/18	EPA 8015M	

Date Sampled: **12/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS60
1812115-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.028**	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.21**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**7.3**	0.10	"	10	"	"	"	"	
Naphthalene	**0.043**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*129 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS61
1812115-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.039**	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.11**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.7**	0.10	"	10	"	"	"	"	
Naphthalene	**0.025**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*162 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS62
1812115-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.044**	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.23**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**15**	0.10	"	10	"	"	"	"	
Naphthalene	**0.052**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*146 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 13:30**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS63
1812115-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.056**	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.29**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**16**	0.10	"	10	"	"	"	"	
Naphthalene	**0.060**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*166 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**54**	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.9 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS64
1812115-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.013**	0.0020	mg/kg	1	1812144	12/11/18	12/11/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.098**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.3**	0.010	"	"	"	"	"	"	
Naphthalene	**0.024**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*173 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS75@6'
1812115-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/11/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS75@8.5'
1812115-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.025**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*134 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS76@6'
1812115-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/11/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.9 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS76@8.5'
1812115-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1.9**	0.20	mg/kg	100	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	**0.011**	0.0050	"	1	"	"	"	"	
Ethylbenzene	**5.8**	0.50	"	100	"	"	"	"	
Xylenes (total)	**81**	1.0	"	"	"	"	"	"	
Naphthalene	**1.2**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**1800**	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*133 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**160**	50	mg/kg	1	1812145	"	12/11/18	EPA 8015M	

Date Sampled: **12/11/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*87.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS77@12.5'
1812115-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.011**	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.024**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS78@12.5'
1812115-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/11/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*99.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS79@12.5'
1812115-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS80@12.5'
1812115-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/11/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS81@6'
1812115-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/11/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS81@8.5'
1812115-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0032**	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.069**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.97**	0.010	"	"	"	"	"	"	
Naphthalene	**0.014**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*92.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS82@6'
1812115-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/11/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/11/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS82@8.5'
1812115-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/11/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812144	12/11/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.56**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**13**	1.0	"	100	"	"	"	"	
Naphthalene	**0.088**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**3.5**	0.50	"	"	"	"	"	"	

Date Sampled: **12/11/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*141 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/11/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812145	"	12/12/18	EPA 8015M	

Date Sampled: **12/11/18 15:30**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS65
1812141-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.020**	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.11**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**3.8**	0.10	"	10	"	"	12/12/18	"	
Naphthalene	**0.049**	0.010	"	1	"	"	12/13/18	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*135 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/13/18	EPA 8015M	

Date Sampled: **12/12/18 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS66
1812141-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.012**	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	**0.010**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.073**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.5**	0.010	"	"	"	"	"	"	
Naphthalene	**0.066**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*158 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/13/18	EPA 8015M	

Date Sampled: **12/12/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*107 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS67
1812141-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.025**	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	**0.015**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.20**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**12**	0.10	"	10	"	"	12/12/18	"	
Naphthalene	**0.073**	0.010	"	1	"	"	12/13/18	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*93.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*159 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/13/18	EPA 8015M	

Date Sampled: **12/12/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS68
1812141-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.022**	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	**0.0062**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.23**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**13**	0.10	"	10	"	"	12/12/18	"	
Naphthalene	**0.089**	0.010	"	1	"	"	12/13/18	"	
Gasoline Range Hydrocarbons	**85**	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*189 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1812168	12/12/18	12/12/18	EPA 8015M	

Date Sampled: **12/12/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*134 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS69
1812141-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0073**	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.066**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.78**	0.010	"	"	"	"	"	"	
Naphthalene	**0.042**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*148 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/12/18	EPA 8015M	

Date Sampled: **12/12/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*139 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS70
1812141-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.012**	0.0020	mg/kg	1	1812169	12/12/18	12/12/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.031**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.39**	0.010	"	"	"	"	"	"	
Naphthalene	**0.022**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/12/18	EPA 8015M	

Date Sampled: **12/12/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS71
1812141-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0083**	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.070**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.2**	0.010	"	"	"	"	"	"	
Naphthalene	**0.029**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*89.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/12/18	EPA 8015M	

Date Sampled: **12/12/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS53R3
1812141-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.11**	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	**0.68**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.24**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**24**	0.10	"	10	"	"	"	"	
Naphthalene	**0.078**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**310**	50	"	10	"	"	"	"	

Date Sampled: **12/12/18 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*196 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**65**	50	mg/kg	1	1812168	12/12/18	12/12/18	EPA 8015M	

Date Sampled: **12/12/18 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS55R3
1812141-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.056**	0.020	mg/kg	10	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	**0.10**	0.050	"	"	"	"	"	"	
Ethylbenzene	**0.15**	0.050	"	"	"	"	"	"	
Xylenes (total)	**2.5**	0.10	"	"	"	"	"	"	
Naphthalene	**0.23**	0.10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **12/12/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*92.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*123 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/12/18	EPA 8015M	

Date Sampled: **12/12/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*122 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS83@6'
1812141-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812168	12/12/18	12/13/18	EPA 8015M	

Date Sampled: **12/12/18 08:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*115 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS83@8.5'
1812141-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/18 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**5.6**	0.20	mg/kg	100	1812169	12/12/18	12/13/18	EPA 8260B	
Toluene	**0.63**	0.50	"	"	"	"	"	"	
Ethylbenzene	**17**	0.50	"	"	"	"	"	"	
Xylenes (total)	**220**	1.0	"	"	"	"	"	"	
Naphthalene	**2.7**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	5000	"	"	"	"	"	"	

Date Sampled: **12/12/18 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*166 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/18 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**1200**	50	mg/kg	1	1812168	12/12/18	12/13/18	EPA 8015M	

Date Sampled: **12/12/18 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*124 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS84@6'
1812162-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812194	12/13/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/13/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812195	12/13/18	12/13/18	EPA 8015M	

Date Sampled: **12/13/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*108 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS84@8.5'
1812162-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.11**	0.0020	mg/kg	1	1812194	12/13/18	12/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.39**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**21**	1.0	"	100	"	"	"	"	
Naphthalene	**0.10**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**820**	50	"	100	"	"	"	"	

Date Sampled: **12/13/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*140 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1812195	12/13/18	12/13/18	EPA 8015M	

Date Sampled: **12/13/18 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*107 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS85@6'
1812162-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812194	12/13/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/13/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812195	12/13/18	12/13/18	EPA 8015M	

Date Sampled: **12/13/18 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS85@8.5'
1812162-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812194	12/13/18	12/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.033**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.057**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**410**	50	"	100	"	"	"	"	

Date Sampled: **12/13/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*92.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*122 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**150**	50	mg/kg	1	1812195	12/13/18	12/13/18	EPA 8015M	

Date Sampled: **12/13/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*107 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS86@6'
1812162-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812194	12/13/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/13/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812195	12/13/18	12/13/18	EPA 8015M	

Date Sampled: **12/13/18 13:40**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS86@8.5'
1812162-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.097**	0.0020	mg/kg	1	1812194	12/13/18	12/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.17**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.98**	0.010	"	"	"	"	"	"	
Naphthalene	**0.028**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/13/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*165 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/18 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**77**	50	mg/kg	1	1812195	12/13/18	12/13/18	EPA 8015M	

Date Sampled: **12/13/18 13:45**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS87@12.5'
1812162-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/13/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812194	12/13/18	12/13/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/13/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/13/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812195	12/13/18	12/13/18	EPA 8015M	

Date Sampled: **12/13/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS88@6'
1812185-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/14/18 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812214	12/14/18	12/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/14/18 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/14/18 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812215	12/14/18	12/15/18	EPA 8015M	

Date Sampled: **12/14/18 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS88@8.5'
1812185-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/14/18 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812214	12/14/18	12/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.090**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.63**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**58**	50	"	"	"	"	"	"	

Date Sampled: **12/14/18 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*125 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*233 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/14/18 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812215	12/14/18	12/15/18	EPA 8015M	

Date Sampled: **12/14/18 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS89@6'
1812185-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/14/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812214	12/14/18	12/15/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/14/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/14/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812215	12/14/18	12/15/18	EPA 8015M	

Date Sampled: **12/14/18 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS89@8.5'
1812185-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/14/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**2.3**	0.20	mg/kg	100	1812214	12/14/18	12/15/18	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	12/15/18	"	
Ethylbenzene	**8.9**	0.50	"	100	"	"	12/15/18	"	
Xylenes (total)	**120**	1.0	"	"	"	"	"	"	
Naphthalene	**1.5**	0.010	"	1	"	"	12/15/18	"	
Gasoline Range Hydrocarbons	**1500**	500	"	10	"	"	12/15/18	"	

Date Sampled: **12/14/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	*12/15/18*	"	
Surrogate: Toluene-d8		*99.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*127 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/14/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**87**	50	mg/kg	1	1812215	12/14/18	12/15/18	EPA 8015M	

Date Sampled: **12/14/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS90@6'
1812201-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/17/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS90@8.5'
1812201-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**1.6**	0.50	"	100	"	"	"	"	
Xylenes (total)	**22**	1.0	"	"	"	"	"	"	
Naphthalene	**0.29**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**800**	50	"	100	"	"	"	"	

Date Sampled: **12/17/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*85.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*127 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**75**	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS91@12'
1812201-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/17/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS92@6'
1812201-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/17/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS92@8.5'
1812201-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1.3**	0.20	mg/kg	100	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	**4.4**	0.50	"	100	"	"	"	"	
Xylenes (total)	**41**	1.0	"	"	"	"	"	"	
Naphthalene	**0.45**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**1300**	50	"	100	"	"	"	"	

Date Sampled: **12/17/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*140 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*82.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*142 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**180**	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS93@6'
1812201-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/17/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.7 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS93@8.5'
1812201-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.34**	0.0020	mg/kg	1	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.79**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**11**	1.0	"	100	"	"	"	"	
Naphthalene	**0.077**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**500**	50	"	100	"	"	"	"	

Date Sampled: **12/17/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**300**	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 09:40**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS94@6'
1812201-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/17/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*89.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS94@8.5'
1812201-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.66**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**19**	1.0	"	100	"	"	"	"	
Naphthalene	**0.24**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**630**	50	"	100	"	"	"	"	

Date Sampled: **12/17/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**120**	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.3 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS72
1812201-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0034**	0.0020	mg/kg	1	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.10**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.0**	0.010	"	"	"	"	"	"	
Naphthalene	**0.034**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*160 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/18/18	EPA 8015M	

Date Sampled: **12/17/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS73
1812201-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.066**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.41**	0.010	"	"	"	"	"	"	
Naphthalene	**0.036**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*144 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**51**	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 12:05**

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

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS74
1812201-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.032**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.46**	0.010	"	"	"	"	"	"	
Naphthalene	**0.026**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*158 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 12:10**

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

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS75
1812201-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/17/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812233	12/17/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.071**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.76**	0.010	"	"	"	"	"	"	
Naphthalene	**0.031**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/17/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*133 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/17/18 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812234	12/17/18	12/17/18	EPA 8015M	

Date Sampled: **12/17/18 12:15**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS95@6'
1812221-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS95@8.5'
1812221-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/19/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**99**	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*100 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS96@6'
1812221-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.1 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.3 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS96@8.5'
1812221-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0059**	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0066**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.069**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.0 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS97@6'
1812221-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS97@8.5'
1812221-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.16**	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.055**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.22**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*87.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS98@6'
1812221-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.7 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.9 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS98@8.5'
1812221-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.083**	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.023**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.066**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.7 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS99@12'
1812221-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/19/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.32**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.4**	0.010	"	"	"	"	"	"	
Naphthalene	**0.10**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**140**	50	"	10	"	"	"	"	

Date Sampled: **12/18/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*152 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*87.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.7 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS100@14'
1812221-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/19/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.036**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/18/18	EPA 8015M	

Date Sampled: **12/18/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*89.8 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS101@6'
1812221-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812246	12/18/18	12/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/19/18	EPA 8015M	

Date Sampled: **12/18/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.3 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS101@8.5'
1812221-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/18/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.015**	0.0020	mg/kg	1	1812246	12/18/18	12/19/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0096**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.10**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/18/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/18/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812247	12/18/18	12/19/18	EPA 8015M	

Date Sampled: **12/18/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.1 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS102@6'
1812261-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/20/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812290	12/20/18	12/20/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/20/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/20/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812291	12/20/18	12/20/18	EPA 8015M	

Date Sampled: **12/20/18 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS102@8.5'
1812261-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/20/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.016**	0.0020	mg/kg	1	1812290	12/20/18	12/21/18	EPA 8260B	
Toluene	**0.0069**	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.022**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/20/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.5 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/20/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**230**	50	mg/kg	1	1812291	12/20/18	12/20/18	EPA 8015M	

Date Sampled: **12/20/18 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.8 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS103@10'
1812261-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/20/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812290	12/20/18	12/20/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/20/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/20/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812291	12/20/18	12/20/18	EPA 8015M	

Date Sampled: **12/20/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS14@10'
1812261-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/20/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812290	12/20/18	12/20/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/20/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/20/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812291	12/20/18	12/20/18	EPA 8015M	

Date Sampled: **12/20/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*89.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS105@6'
1901004-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS105@8.5'
1901004-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0036**	0.0020	mg/kg	1	1901010	01/02/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**13**	0.50	"	100	"	"	"	"	
Xylenes (total)	**98**	1.0	"	"	"	"	"	"	
Naphthalene	**1.9**	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**4800**	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*137 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*199 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**1300**	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*122 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS106@10'
1901004-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*96.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS107@11'
1901004-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0037**	0.0020	mg/kg	1	1901010	01/02/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS108@12'
1901004-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 11:50**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS76
1901004-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.021**	0.0020	mg/kg	1	1901010	01/02/19	01/03/19	EPA 8260B	
Toluene	**0.034**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.28**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**2.0**	0.010	"	"	"	"	"	"	
Naphthalene	**0.049**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*158 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 13:00**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS77
1901004-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.025**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.73**	0.010	"	"	"	"	"	"	
Naphthalene	**0.038**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*157 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 13:05**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS78
1901004-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.036**	0.0020	mg/kg	1	1901010	01/02/19	01/03/19	EPA 8260B	
Toluene	**0.084**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.16**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.8**	0.010	"	"	"	"	"	"	
Naphthalene	**0.042**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*92.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*138 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 13:10**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS79
1901004-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0068**	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	**0.020**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.055**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.93**	0.010	"	"	"	"	"	"	
Naphthalene	**0.023**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*155 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/02/19	EPA 8015M	

Date Sampled: **01/02/19 13:15**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS80
1901004-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.012**	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	**0.026**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.10**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.010	"	"	"	"	"	"	
Naphthalene	**0.026**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*143 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*105 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS81
1901004-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0072**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.010	"	"	"	"	"	"	
Naphthalene	**0.037**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**57**	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*179 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:25**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS82
1901004-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.027**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.54**	0.010	"	"	"	"	"	"	
Naphthalene	**0.019**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:30**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS83
1901004-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.028**	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	**0.086**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.19**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.6**	0.010	"	"	"	"	"	"	
Naphthalene	**0.043**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**60**	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*159 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS84
1901004-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.015**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*85.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*153 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*108 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS85
1901004-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.011**	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	**0.043**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.088**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.2**	0.010	"	"	"	"	"	"	
Naphthalene	**0.028**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*134 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**50**	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*108 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS86
1901004-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*135 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*115 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS87
1901004-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*132 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 13:55**

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

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS88
1901004-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*153 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS89
1901004-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/19 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901010	01/02/19	01/02/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/19 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*137 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/19 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**52**	50	mg/kg	1	1901011	01/02/19	01/03/19	EPA 8015M	

Date Sampled: **01/02/19 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*118 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS109@10'
1901014-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/19 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901026	01/03/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/03/19 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*124 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/19 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901027	01/03/19	01/04/19	EPA 8015M	

Date Sampled: **01/03/19 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*117 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS110@10'
1901014-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/19 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901026	01/03/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/03/19 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/19 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901027	01/03/19	01/04/19	EPA 8015M	

Date Sampled: **01/03/19 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*116 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS111@6'
1901014-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901026	01/03/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/03/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*87.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.3 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901027	01/03/19	01/04/19	EPA 8015M	

Date Sampled: **01/03/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.2 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS111@8.5'
1901014-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/19 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901026	01/03/19	01/04/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0062**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.077**	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/03/19 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*134 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*135 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/19 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**51**	50	mg/kg	1	1901027	01/03/19	01/04/19	EPA 8015M	

Date Sampled: **01/03/19 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.7 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS112@6'
1901014-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/19 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901026	01/03/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/03/19 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*130 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/19 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901027	01/03/19	01/04/19	EPA 8015M	

Date Sampled: **01/03/19 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*93.1 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

SS112@8.5'
1901014-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/19 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901026	01/03/19	01/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.069**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.0**	0.010	"	"	"	"	"	"	
Naphthalene	**0.027**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/03/19 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*134 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*120 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/19 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**65**	50	mg/kg	1	1901027	01/03/19	01/04/19	EPA 8015M	

Date Sampled: **01/03/19 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*92.6 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS90
1901137-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0046**	0.0020	mg/kg	1	1901130	01/10/19	01/11/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.62**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**20**	0.10	"	10	"	"	"	"	
Naphthalene	**0.21**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*152 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*86.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*300 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**190**	50	mg/kg	1	1901131	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*63.6 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS91

1901137-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.14**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.4**	0.010	"	"	"	"	"	"	
Naphthalene	**0.052**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*215 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**50**	50	mg/kg	1	1901132	01/10/19	01/10/19	EPA 8015M	

Date Sampled: **01/10/19 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*83.5 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS92
1901137-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0057**	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.22**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.9**	0.010	"	"	"	"	"	"	
Naphthalene	**0.078**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*265 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**74**	50	mg/kg	1	1901132	01/10/19	01/10/19	EPA 8015M	

Date Sampled: **01/10/19 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.2 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS93
1901137-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.065**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.2**	0.010	"	"	"	"	"	"	
Naphthalene	**0.058**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*86.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*222 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**65**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*87.6 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS94
1901137-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.024**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.64**	0.010	"	"	"	"	"	"	
Naphthalene	**0.034**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*92.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*185 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.8 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS95
1901137-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.071**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.94**	0.010	"	"	"	"	"	"	
Naphthalene	**0.026**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*195 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**60**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*88.9 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS96
1901137-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.012**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.14**	0.010	"	"	"	"	"	"	
Naphthalene	**0.023**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*159 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*89.4 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS97
1901137-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/11/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.21**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**7.4**	0.10	"	10	"	"	"	"	
Naphthalene	**0.091**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.9 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*295 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**130**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.9 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS98
1901137-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.055**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.010	"	"	"	"	"	"	
Naphthalene	**0.036**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*89.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*202 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**62**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.4 %*	*30-150*		"	"	"	"	

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

Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS99
1901137-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.058**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.010	"	"	"	"	"	"	
Naphthalene	**0.046**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*203 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**100**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*86.4 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS100
1901137-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.11**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**1.3**	0.010	"	"	"	"	"	"	
Naphthalene	**0.060**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*87.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*271 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**70**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*89.0 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS101
1901137-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1901130	01/10/19	01/10/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.026**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.21**	0.010	"	"	"	"	"	"	
Naphthalene	**0.037**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*254 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**74**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.0 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS102
1901137-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0035**	0.0020	mg/kg	1	1901130	01/10/19	01/11/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.044**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.60**	0.010	"	"	"	"	"	"	
Naphthalene	**0.099**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*347 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**110**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*91.7 %*	*30-150*		"	"	"	"	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

CS103
1901137-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/19 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.019**	0.0020	mg/kg	1	1901130	01/10/19	01/11/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.42**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**20**	0.10	"	10	"	"	"	"	
Naphthalene	**0.11**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/19 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*130 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*360 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/19 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**140**	50	mg/kg	1	1901132	01/10/19	01/11/19	EPA 8015M	

Date Sampled: **01/10/19 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.2 %*	*30-150*		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1805238 - EPA 5030 Soil MS										
Blank (1805238-BLK1)				Prepared: 05/21/18 Analyzed: 05/22/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0362*		"	*0.0396*		*91.3*	*23-173*			
Surrogate: Toluene-d8	*0.0400*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0374*		"	*0.0400*		*93.5*	*21-167*			
LCS (1805238-BS1)				Prepared: 05/21/18 Analyzed: 05/22/18						
Benzene	0.139	0.0020	mg/kg	0.150		92.9	70-130			
Toluene	0.144	0.0050	"	0.150		95.7	70-130			
Ethylbenzene	0.147	0.0050	"	0.150		97.8	70-130			
m,p-Xylene	0.298	0.010	"	0.300		99.3	70-130			
o-Xylene	0.151	0.0050	"	0.150		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0361*		"	*0.0396*		*91.2*	*23-173*			
Surrogate: Toluene-d8	*0.0406*		"	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0361*		"	*0.0400*		*90.3*	*21-167*			
Matrix Spike (1805238-MS1)		**Source: 1805248-04**		Prepared: 05/21/18 Analyzed: 05/22/18						
Benzene	0.158	0.0020	mg/kg	0.150	ND	105	70-130			
Toluene	0.165	0.0050	"	0.150	ND	110	70-130			
Ethylbenzene	0.159	0.0050	"	0.150	ND	106	70-130			
m,p-Xylene	0.339	0.010	"	0.300	ND	113	70-130			
o-Xylene	0.170	0.0050	"	0.150	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0374*		"	*0.0396*		*94.3*	*23-173*			
Surrogate: Toluene-d8	*0.0407*		"	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0378*		"	*0.0400*		*94.6*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1805238 - EPA 5030 Soil MS										
Matrix Spike Dup (1805238-MSD1)		**Source: 1805248-04**		Prepared: 05/21/18 Analyzed: 05/22/18						
Benzene	0.122	0.0020	mg/kg	0.150	ND	81.7	70-130	25.4	30	
Toluene	0.128	0.0050	"	0.150	ND	85.4	70-130	25.4	30	
Ethylbenzene	0.128	0.0050	"	0.150	ND	85.3	70-130	21.6	30	
m,p-Xylene	0.263	0.010	"	0.300	ND	87.7	70-130	25.1	30	
o-Xylene	0.134	0.0050	"	0.150	ND	89.2	70-130	23.9	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0380*		*"*	*0.0396*		*95.8*	*23-173*			
Surrogate: Toluene-d8	*0.0408*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0374*		*"*	*0.0400*		*93.4*	*21-167*			
Batch 1807309 - EPA 5030 Soil MS										
Blank (1807309-BLK1)				Prepared: 07/25/18 Analyzed: 07/26/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0387*		*"*	*0.0396*		*97.7*	*23-173*			
Surrogate: Toluene-d8	*0.0394*		*"*	*0.0400*		*98.4*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0411*		*"*	*0.0400*		*103*	*21-167*			
LCS (1807309-BS1)				Prepared: 07/25/18 Analyzed: 07/26/18						
Benzene	0.0942	0.0020	mg/kg	0.100		94.2	70-130			
Toluene	0.106	0.0050	"	0.100		106	70-130			
Ethylbenzene	0.120	0.0050	"	0.100		120	70-130			
m,p-Xylene	0.235	0.010	"	0.200		117	70-130			
o-Xylene	0.112	0.0050	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0383*		*"*	*0.0396*		*96.8*	*23-173*			
Surrogate: Toluene-d8	*0.0380*		*"*	*0.0400*		*95.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0411*		*"*	*0.0400*		*103*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1807309 - EPA 5030 Soil MS										
Matrix Spike (1807309-MS1)		**Source: 1807313-01**		Prepared: 07/25/18		Analyzed: 07/26/18				
Benzene	0.0937	0.0020	mg/kg	0.100	ND	93.7	70-130			
Toluene	0.104	0.0050	"	0.100	ND	104	70-130			
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130			
m,p-Xylene	0.232	0.010	"	0.200	ND	116	70-130			
o-Xylene	0.110	0.0050	"	0.100	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0383*		*"*	*0.0396*		*96.8*	*23-173*			
Surrogate: Toluene-d8	*0.0385*		*"*	*0.0400*		*96.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0397*		*"*	*0.0400*		*99.2*	*21-167*			
Matrix Spike Dup (1807309-MSD1)		**Source: 1807313-01**		Prepared: 07/25/18		Analyzed: 07/26/18				
Benzene	0.0968	0.0020	mg/kg	0.100	ND	96.8	70-130	3.18	30	
Toluene	0.108	0.0050	"	0.100	ND	108	70-130	3.20	30	
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130	0.404	30	
m,p-Xylene	0.232	0.010	"	0.200	ND	116	70-130	0.0647	30	
o-Xylene	0.110	0.0050	"	0.100	ND	110	70-130	0.410	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0388*		*"*	*0.0396*		*98.0*	*23-173*			
Surrogate: Toluene-d8	*0.0388*		*"*	*0.0400*		*97.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0398*		*"*	*0.0400*		*99.4*	*21-167*			
Batch 1808028 - EPA 5030 Soil MS										
Blank (1808028-BLK1)				Prepared: 08/02/18		Analyzed: 08/03/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0385*		*"*	*0.0396*		*97.2*	*23-173*			
Surrogate: Toluene-d8	*0.0399*		*"*	*0.0400*		*99.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0407*		*"*	*0.0400*		*102*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1808028 - EPA 5030 Soil MS										
LCS (1808028-BS1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Benzene	0.0921	0.0020	mg/kg	0.100		92.1	70-130			
Toluene	0.0981	0.0050	"	0.100		98.1	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.194	0.010	"	0.200		97.1	70-130			
o-Xylene	0.0923	0.0050	"	0.100		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0410*		"	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0404*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0395*		"	*0.0400*		*98.8*	*21-167*			
Matrix Spike (1808028-MS1)		**Source: 1808011-01**		Prepared: 08/02/18 Analyzed: 08/03/18						
Benzene	0.0940	0.0020	mg/kg	0.100	ND	94.0	70-130			
Toluene	0.0998	0.0050	"	0.100	ND	99.8	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.201	0.010	"	0.200	ND	100	70-130			
o-Xylene	0.0944	0.0050	"	0.100	ND	94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0410*		"	*0.0396*		*103*	*23-173*			
Surrogate: Toluene-d8	*0.0409*		"	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0404*		"	*0.0400*		*101*	*21-167*			
Matrix Spike Dup (1808028-MSD1)		**Source: 1808011-01**		Prepared: 08/02/18 Analyzed: 08/03/18						
Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	13.1	30	
Toluene	0.113	0.0050	"	0.100	ND	113	70-130	12.8	30	
Ethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130	14.5	30	
m,p-Xylene	0.231	0.010	"	0.200	ND	116	70-130	14.1	30	
o-Xylene	0.112	0.0050	"	0.100	ND	112	70-130	16.7	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0428*		"	*0.0396*		*108*	*23-173*			
Surrogate: Toluene-d8	*0.0405*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0416*		"	*0.0400*		*104*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810033 - EPA 5030 Water MS										
Blank (1810033-BLK1)				Prepared: 10/02/18 Analyzed: 10/04/18						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*13.1*		*"*	*13.2*		*98.9*	*23-173*			
Surrogate: Toluene-d8	*13.0*		*"*	*13.3*		*97.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.7*		*"*	*13.3*		*95.3*	*21-167*			
LCS (1810033-BS1)				Prepared: 10/02/18 Analyzed: 10/04/18						
Benzene	28.9	1.0	ug/l	33.3		86.8	70-130			
Toluene	30.8	1.0	"	33.3		92.3	70-130			
Ethylbenzene	32.5	1.0	"	33.3		97.6	70-130			
m,p-Xylene	64.8	2.0	"	66.7		97.2	70-130			
o-Xylene	32.5	1.0	"	33.3		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*13.0*		*"*	*13.2*		*98.7*	*23-173*			
Surrogate: Toluene-d8	*13.0*		*"*	*13.3*		*97.3*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.9*		*"*	*13.3*		*96.8*	*21-167*			
Matrix Spike (1810033-MS1)		**Source: 1810009-01**		Prepared: 10/02/18 Analyzed: 10/04/18						
Benzene	28.5	1.0	ug/l	33.3	ND	85.6	70-130			
Toluene	31.0	1.0	"	33.3	ND	93.0	70-130			
Ethylbenzene	32.6	1.0	"	33.3	ND	97.8	70-130			
m,p-Xylene	65.0	2.0	"	66.7	ND	97.5	70-130			
o-Xylene	32.6	1.0	"	33.3	ND	97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*12.8*		*"*	*13.2*		*97.0*	*23-173*			
Surrogate: Toluene-d8	*13.0*		*"*	*13.3*		*97.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.7*		*"*	*13.3*		*95.4*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810033 - EPA 5030 Water MS										
Matrix Spike Dup (1810033-MSD1)	**Source: 1810009-01**			Prepared: 10/02/18	Analyzed: 10/04/18					
Benzene	32.3	1.0	ug/l	33.3	ND	97.0	70-130	12.5	30	
Toluene	35.3	1.0	"	33.3	ND	106	70-130	12.9	30	
Ethylbenzene	37.4	1.0	"	33.3	ND	112	70-130	13.7	30	
m,p-Xylene	74.4	2.0	"	66.7	ND	112	70-130	13.5	30	
o-Xylene	38.0	1.0	"	33.3	ND	114	70-130	15.5	30	
Surrogate: 1,2-Dichloroethane-d4	*12.9*		*"*	*13.2*		*97.6*	*23-173*			
Surrogate: Toluene-d8	*12.9*		*"*	*13.3*		*97.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.9*		*"*	*13.3*		*96.7*	*21-167*			
Batch 1810294 - EPA 5030 Water MS										
Blank (1810294-BLK1)				Prepared: 10/23/18	Analyzed: 10/24/18					
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*13.2*		*77.5*	*23-173*			
Surrogate: Toluene-d8	*12.2*		*"*	*13.3*		*91.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*11.7*		*"*	*13.3*		*88.0*	*21-167*			
LCS (1810294-BS1)				Prepared: 10/23/18	Analyzed: 10/24/18					
Benzene	24.0	1.0	ug/l	33.3		71.9	70-130			
Toluene	27.0	1.0	"	33.3		81.0	70-130			
Ethylbenzene	29.4	1.0	"	33.3		88.2	70-130			
m,p-Xylene	61.8	2.0	"	66.7		92.7	70-130			
o-Xylene	30.8	1.0	"	33.3		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.97*		*"*	*13.2*		*75.5*	*23-173*			
Surrogate: Toluene-d8	*12.2*		*"*	*13.3*		*91.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*11.9*		*"*	*13.3*		*89.3*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810294 - EPA 5030 Water MS										
Matrix Spike (1810294-MS1)	**Source: 1810235-01**			Prepared: 10/23/18	Analyzed: 10/24/18					
Benzene	25.7	1.0	ug/l	33.3	ND	77.2	70-130			
Toluene	29.1	1.0	"	33.3	ND	87.4	70-130			
Ethylbenzene	31.7	1.0	"	33.3	ND	95.2	70-130			
m,p-Xylene	65.9	2.0	"	66.7	ND	98.8	70-130			
o-Xylene	33.2	1.0	"	33.3	ND	99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*10.5*		*"*	*13.2*		*79.5*	*23-173*			
Surrogate: Toluene-d8	*12.4*		*"*	*13.3*		*92.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*11.7*		*"*	*13.3*		*87.8*	*21-167*			
Matrix Spike Dup (1810294-MSD1)	**Source: 1810235-01**			Prepared: 10/23/18	Analyzed: 10/24/18					
Benzene	25.0	1.0	ug/l	33.3	ND	74.9	70-130	3.08	30	
Toluene	28.2	1.0	"	33.3	ND	84.8	70-130	3.03	30	
Ethylbenzene	31.0	1.0	"	33.3	ND	93.1	70-130	2.23	30	
m,p-Xylene	64.6	2.0	"	66.7	ND	96.9	70-130	2.01	30	
o-Xylene	32.3	1.0	"	33.3	ND	96.9	70-130	2.66	30	
Surrogate: 1,2-Dichloroethane-d4	*10.6*		*"*	*13.2*		*80.7*	*23-173*			
Surrogate: Toluene-d8	*12.2*		*"*	*13.3*		*91.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.0*		*"*	*13.3*		*89.6*	*21-167*			
Batch 1810304 - EPA 5030 Soil MS										
Blank (1810304-BLK1)				Prepared: 10/22/18	Analyzed: 10/23/18					
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0466*		*"*	*0.0396*		*118*	*23-173*			
Surrogate: Toluene-d8	*0.0407*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0433*		*"*	*0.0400*		*108*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810304 - EPA 5030 Soil MS										
LCS (1810304-BS1)				Prepared: 10/22/18 Analyzed: 10/23/18						
Benzene	0.0772	0.0020	mg/kg	0.100		77.2	70-130			
Toluene	0.0825	0.0050	"	0.100		82.5	70-130			
Ethylbenzene	0.0871	0.0050	"	0.100		87.1	70-130			
m,p-Xylene	0.171	0.010	"	0.200		85.5	70-130			
o-Xylene	0.0897	0.0050	"	0.100		89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0460*		*"*	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0411*		*"*	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0428*		*"*	*0.0400*		*107*	*21-167*			
Matrix Spike (1810304-MS1)		**Source: 1810265-01**		Prepared: 10/22/18 Analyzed: 10/23/18						
Benzene	0.0771	0.0020	mg/kg	0.100	ND	77.1	70-130			
Toluene	0.0851	0.0050	"	0.100	ND	85.1	70-130			
Ethylbenzene	0.0890	0.0050	"	0.100	ND	89.0	70-130			
m,p-Xylene	0.173	0.010	"	0.200	ND	86.4	70-130			
o-Xylene	0.0894	0.0050	"	0.100	ND	89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0447*		*"*	*0.0396*		*113*	*23-173*			
Surrogate: Toluene-d8	*0.0410*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0428*		*"*	*0.0400*		*107*	*21-167*			
Matrix Spike Dup (1810304-MSD1)		**Source: 1810265-01**		Prepared: 10/22/18 Analyzed: 10/23/18						
Benzene	0.0760	0.0020	mg/kg	0.100	ND	76.0	70-130	1.49	30	
Toluene	0.0836	0.0050	"	0.100	ND	83.6	70-130	1.81	30	
Ethylbenzene	0.0877	0.0050	"	0.100	ND	87.7	70-130	1.43	30	
m,p-Xylene	0.170	0.010	"	0.200	ND	84.9	70-130	1.82	30	
o-Xylene	0.0891	0.0050	"	0.100	ND	89.1	70-130	0.403	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0451*		*"*	*0.0396*		*114*	*23-173*			
Surrogate: Toluene-d8	*0.0405*		*"*	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0437*		*"*	*0.0400*		*109*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810324 - EPA 5030 Soil MS										
Blank (1810324-BLK1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0449*		"	*0.0396*		*113*	*23-173*			
Surrogate: Toluene-d8	*0.0421*		"	*0.0400*		*105*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0438*		"	*0.0400*		*109*	*21-167*			
LCS (1810324-BS1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Benzene	0.0781	0.0020	mg/kg	0.100		78.1	70-130			
Toluene	0.0912	0.0050	"	0.100		91.2	70-130			
Ethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
m,p-Xylene	0.180	0.010	"	0.200		89.8	70-130			
o-Xylene	0.0933	0.0050	"	0.100		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0460*		"	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0414*		"	*0.0400*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0443*		"	*0.0400*		*111*	*21-167*			
Matrix Spike (1810324-MS1)		**Source: 1810279-01**		Prepared: 10/23/18 Analyzed: 10/24/18						
Benzene	0.0824	0.0020	mg/kg	0.100	ND	82.4	70-130			
Toluene	0.101	0.0050	"	0.100	0.0119	88.6	70-130			
Ethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
m,p-Xylene	0.195	0.010	"	0.200	0.0128	91.3	70-130			
o-Xylene	0.0993	0.0050	"	0.100	0.00327	96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0468*		"	*0.0396*		*118*	*23-173*			
Surrogate: Toluene-d8	*0.0421*		"	*0.0400*		*105*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0430*		"	*0.0400*		*107*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810324 - EPA 5030 Soil MS										
Matrix Spike Dup (1810324-MSD1)		**Source: 1810279-01**		Prepared: 10/23/18 Analyzed: 10/24/18						
Benzene	0.0790	0.0020	mg/kg	0.100	ND	79.0	70-130	4.13	30	
Toluene	0.0938	0.0050	"	0.100	0.0119	81.9	70-130	6.88	30	
Ethylbenzene	0.0919	0.0050	"	0.100	ND	91.9	70-130	2.48	30	
m,p-Xylene	0.187	0.010	"	0.200	0.0128	87.0	70-130	4.43	30	
o-Xylene	0.0943	0.0050	"	0.100	0.00327	91.0	70-130	5.21	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0452*		*"*	*0.0396*		*114*	*23-173*			
Surrogate: Toluene-d8	*0.0407*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0451*		*"*	*0.0400*		*113*	*21-167*			
Batch 1810349 - EPA 5030 Soil MS										
Blank (1810349-BLK1)				Prepared: 10/24/18 Analyzed: 10/25/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0459*		*"*	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0415*		*"*	*0.0400*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0448*		*"*	*0.0400*		*112*	*21-167*			
LCS (1810349-BS1)				Prepared: 10/24/18 Analyzed: 10/25/18						
Benzene	0.0790	0.0020	mg/kg	0.100		79.0	70-130			
Toluene	0.0859	0.0050	"	0.100		85.9	70-130			
Ethylbenzene	0.0871	0.0050	"	0.100		87.1	70-130			
m,p-Xylene	0.170	0.010	"	0.200		85.2	70-130			
o-Xylene	0.0907	0.0050	"	0.100		90.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0450*		*"*	*0.0396*		*114*	*23-173*			
Surrogate: Toluene-d8	*0.0408*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0424*		*"*	*0.0400*		*106*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810349 - EPA 5030 Soil MS										
Matrix Spike (1810349-MS1)		**Source: 1810300-01**		Prepared: 10/24/18		Analyzed: 10/25/18				
Benzene	0.0780	0.0020	mg/kg	0.100	ND	78.0	70-130			
Toluene	0.0870	0.0050	"	0.100	ND	87.0	70-130			
Ethylbenzene	0.0898	0.0050	"	0.100	ND	89.8	70-130			
m,p-Xylene	0.176	0.010	"	0.200	ND	88.2	70-130			
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0458*		*"*	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0408*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0422*		*"*	*0.0400*		*105*	*21-167*			
Matrix Spike Dup (1810349-MSD1)		**Source: 1810300-01**		Prepared: 10/24/18		Analyzed: 10/25/18				
Benzene	0.0794	0.0020	mg/kg	0.100	ND	79.4	70-130	1.79	30	
Toluene	0.0874	0.0050	"	0.100	ND	87.4	70-130	0.482	30	
Ethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130	0.201	30	
m,p-Xylene	0.176	0.010	"	0.200	ND	88.1	70-130	0.0340	30	
o-Xylene	0.0949	0.0050	"	0.100	ND	94.9	70-130	0.0948	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0459*		*"*	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0433*		*"*	*0.0400*		*108*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0431*		*"*	*0.0400*		*108*	*21-167*			
Batch 1810379 - EPA 5030 Soil MS										
Blank (1810379-BLK1)				Prepared: 10/25/18		Analyzed: 10/26/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0435*		*"*	*0.0396*		*110*	*23-173*			
Surrogate: Toluene-d8	*0.0407*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0424*		*"*	*0.0400*		*106*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810379 - EPA 5030 Soil MS										
LCS (1810379-BS1)				Prepared: 10/25/18 Analyzed: 10/26/18						
Benzene	0.101	0.0020	mg/kg	0.100		101	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.222	0.010	"	0.200		111	70-130			
o-Xylene	0.108	0.0050	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0409*		"	*0.0396*		*103*	*23-173*			
Surrogate: Toluene-d8	*0.0406*		"	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0402*		"	*0.0400*		*100*	*21-167*			
Matrix Spike (1810379-MS1)	**Source: 1810322-03**			Prepared: 10/25/18 Analyzed: 10/26/18						
Benzene	0.0585	0.0020	mg/kg	0.100	ND	58.5	70-130			QM-07
Toluene	0.0622	0.0050	"	0.100	ND	62.2	70-130			QM-07
Ethylbenzene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
m,p-Xylene	0.127	0.010	"	0.200	ND	63.3	70-130			QM-07
o-Xylene	0.0934	0.0050	"	0.100	ND	93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0403*		"	*0.0396*		*102*	*23-173*			
Surrogate: Toluene-d8	*0.0399*		"	*0.0400*		*99.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0404*		"	*0.0400*		*101*	*21-167*			
Matrix Spike Dup (1810379-MSD1)	**Source: 1810322-03**			Prepared: 10/25/18 Analyzed: 10/26/18						
Benzene	0.0460	0.0020	mg/kg	0.100	ND	46.0	70-130	24.0	30	QM-07
Toluene	0.0512	0.0050	"	0.100	ND	51.2	70-130	19.4	30	QM-07
Ethylbenzene	0.0850	0.0050	"	0.100	ND	85.0	70-130	1.89	30	
m,p-Xylene	0.119	0.010	"	0.200	ND	59.7	70-130	5.83	30	QM-07
o-Xylene	0.0941	0.0050	"	0.100	ND	94.1	70-130	0.768	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0430*		"	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0400*		"	*0.0400*		*99.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0414*		"	*0.0400*		*104*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810399 - EPA 5030 Soil MS										
Blank (1810399-BLK1)				Prepared: 10/26/18 Analyzed: 10/27/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0296*		"	*0.0396*		*74.8*	*23-173*			
Surrogate: Toluene-d8	*0.0383*		"	*0.0400*		*95.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0361*		"	*0.0400*		*90.3*	*21-167*			
LCS (1810399-BS1)				Prepared: 10/26/18 Analyzed: 10/27/18						
Benzene	0.0743	0.0020	mg/kg	0.100		74.3	70-130			
Toluene	0.0922	0.0050	"	0.100		92.2	70-130			
Ethylbenzene	0.0970	0.0050	"	0.100		97.0	70-130			
m,p-Xylene	0.201	0.010	"	0.200		101	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0298*		"	*0.0396*		*75.3*	*23-173*			
Surrogate: Toluene-d8	*0.0391*		"	*0.0400*		*97.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0377*		"	*0.0400*		*94.4*	*21-167*			
Matrix Spike (1810399-MS1)		**Source: 1810335-01**		Prepared: 10/26/18 Analyzed: 10/27/18						
Benzene	0.0730	0.0020	mg/kg	0.100	ND	73.0	70-130			
Toluene	0.0890	0.0050	"	0.100	ND	89.0	70-130			
Ethylbenzene	0.0953	0.0050	"	0.100	ND	95.3	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	98.0	70-130			
o-Xylene	0.0989	0.0050	"	0.100	ND	98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0309*		"	*0.0396*		*78.0*	*23-173*			
Surrogate: Toluene-d8	*0.0388*		"	*0.0400*		*96.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0371*		"	*0.0400*		*92.8*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810399 - EPA 5030 Soil MS										
Matrix Spike Dup (1810399-MSD1)		**Source: 1810335-01**		Prepared: 10/26/18	Analyzed: 10/27/18					
Benzene	0.0742	0.0020	mg/kg	0.100	ND	74.2	70-130	1.71	30	
Toluene	0.0916	0.0050	"	0.100	ND	91.6	70-130	2.86	30	
Ethylbenzene	0.0984	0.0050	"	0.100	ND	98.4	70-130	3.16	30	
m,p-Xylene	0.202	0.010	"	0.200	ND	101	70-130	3.19	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	4.94	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0308*		*"*	*0.0396*		*77.8*	*23-173*			
Surrogate: Toluene-d8	*0.0378*		*"*	*0.0400*		*94.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0361*		*"*	*0.0400*		*90.2*	*21-167*			
Batch 1810451 - EPA 5030 Soil MS										
Blank (1810451-BLK1)				Prepared: 10/30/18	Analyzed: 10/31/18					
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0316*		*"*	*0.0396*		*79.8*	*23-173*			
Surrogate: Toluene-d8	*0.0398*		*"*	*0.0400*		*99.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0385*		*"*	*0.0400*		*96.3*	*21-167*			
LCS (1810451-BS1)				Prepared: 10/30/18	Analyzed: 10/31/18					
Benzene	0.0716	0.0020	mg/kg	0.100		71.6	70-130			
Toluene	0.0858	0.0050	"	0.100		85.8	70-130			
Ethylbenzene	0.0858	0.0050	"	0.100		85.8	70-130			
m,p-Xylene	0.179	0.010	"	0.200		89.6	70-130			
o-Xylene	0.0900	0.0050	"	0.100		90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0296*		*"*	*0.0396*		*74.8*	*23-173*			
Surrogate: Toluene-d8	*0.0408*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0383*		*"*	*0.0400*		*95.8*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810451 - EPA 5030 Soil MS										
Matrix Spike (1810451-MS1)		**Source: 1810388-09**		Prepared: 10/30/18		Analyzed: 10/31/18				
Benzene	0.0700	0.0020	mg/kg	0.100	ND	70.0	70-130			
Toluene	0.0854	0.0050	"	0.100	0.00315	82.2	70-130			
Ethylbenzene	0.0844	0.0050	"	0.100	ND	84.4	70-130			
m,p-Xylene	0.239	0.010	"	0.200	0.0276	106	70-130			
o-Xylene	0.271	0.0050	"	0.100	0.124	146	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0304*		"	*0.0396*		*76.7*	*23-173*			
Surrogate: Toluene-d8	*0.0451*		"	*0.0400*		*113*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0554*		"	*0.0400*		*139*	*21-167*			
Matrix Spike Dup (1810451-MSD1)		**Source: 1810388-09**		Prepared: 10/30/18		Analyzed: 10/31/18				
Benzene	0.0744	0.0020	mg/kg	0.100	ND	74.4	70-130	6.19	30	
Toluene	0.0898	0.0050	"	0.100	0.00315	86.6	70-130	5.04	30	
Ethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	70-130	10.6	30	
m,p-Xylene	0.212	0.010	"	0.200	0.0276	92.3	70-130	11.8	30	
o-Xylene	0.233	0.0050	"	0.100	0.124	108	70-130	15.0	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0305*		"	*0.0396*		*77.0*	*23-173*			
Surrogate: Toluene-d8	*0.0513*		"	*0.0400*		*128*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0468*		"	*0.0400*		*117*	*21-167*			
Batch 1810472 - EPA 5030 Soil MS										
Blank (1810472-BLK1)				Prepared & Analyzed: 10/31/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0299*		"	*0.0396*		*75.5*	*23-173*			
Surrogate: Toluene-d8	*0.0380*		"	*0.0400*		*95.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0369*		"	*0.0400*		*92.2*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810472 - EPA 5030 Soil MS										
LCS (1810472-BS1)				Prepared & Analyzed: 10/31/18						
Benzene	0.0773	0.0020	mg/kg	0.100		77.3	70-130			
Toluene	0.0949	0.0050	"	0.100		94.9	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.215	0.010	"	0.200		108	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0309*		"	*0.0396*		*78.1*	*23-173*			
Surrogate: Toluene-d8	*0.0385*		"	*0.0400*		*96.3*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0371*		"	*0.0400*		*92.8*	*21-167*			
Matrix Spike (1810472-MS1)		**Source: 1810335-07**		Prepared & Analyzed: 10/31/18						
Benzene	0.0757	0.0020	mg/kg	0.100		75.7	70-130			
Toluene	0.0916	0.0050	"	0.100		91.6	70-130			
Ethylbenzene	0.119	0.0050	"	0.100		119	70-130			
m,p-Xylene	0.231	0.010	"	0.200		115	70-130			
o-Xylene	0.121	0.0050	"	0.100		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0306*		"	*0.0396*		*77.3*	*23-173*			
Surrogate: Toluene-d8	*0.0422*		"	*0.0400*		*106*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0383*		"	*0.0400*		*95.8*	*21-167*			
Matrix Spike Dup (1810472-MSD1)		**Source: 1810335-07**		Prepared & Analyzed: 10/31/18						
Benzene	0.0766	0.0020	mg/kg	0.100		76.6	70-130	1.22	30	
Toluene	0.0916	0.0050	"	0.100		91.6	70-130	0.00	30	
Ethylbenzene	0.119	0.0050	"	0.100		119	70-130	0.00	30	
m,p-Xylene	0.229	0.010	"	0.200		114	70-130	0.875	30	
o-Xylene	0.0877	0.0050	"	0.100		87.7	70-130	31.8	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0360*		"	*0.0396*		*90.9*	*23-173*			
Surrogate: Toluene-d8	*0.0383*		"	*0.0400*		*95.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0449*		"	*0.0400*		*112*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811021 - EPA 5030 Soil MS										
Blank (1811021-BLK1)				Prepared & Analyzed: 11/01/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0303*		"	*0.0396*		*76.6*	*23-173*			
Surrogate: Toluene-d8	*0.0391*		"	*0.0400*		*97.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0368*		"	*0.0400*		*92.0*	*21-167*			
LCS (1811021-BS1)				Prepared & Analyzed: 11/01/18						
Benzene	0.0744	0.0020	mg/kg	0.100		74.4	70-130			
Toluene	0.0910	0.0050	"	0.100		91.0	70-130			
Ethylbenzene	0.0962	0.0050	"	0.100		96.2	70-130			
m,p-Xylene	0.199	0.010	"	0.200		99.6	70-130			
o-Xylene	0.0992	0.0050	"	0.100		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0299*		"	*0.0396*		*75.6*	*23-173*			
Surrogate: Toluene-d8	*0.0388*		"	*0.0400*		*96.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0374*		"	*0.0400*		*93.6*	*21-167*			
Matrix Spike (1811021-MS1)		**Source: 1811005-05**		Prepared & Analyzed: 11/01/18						
Benzene	0.0810	0.0020	mg/kg	0.100	ND	81.0	70-130			
Toluene	0.0991	0.0050	"	0.100	ND	99.1	70-130			
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
m,p-Xylene	0.216	0.010	"	0.200	0.0118	102	70-130			
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0312*		"	*0.0396*		*78.8*	*23-173*			
Surrogate: Toluene-d8	*0.0379*		"	*0.0400*		*94.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0372*		"	*0.0400*		*92.9*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811021 - EPA 5030 Soil MS										
Matrix Spike Dup (1811021-MSD1)		**Source: 1811005-05**		Prepared & Analyzed: 11/01/18						
Benzene	0.0795	0.0020	mg/kg	0.100	ND	79.5	70-130	1.87	30	
Toluene	0.0965	0.0050	"	0.100	ND	96.5	70-130	2.58	30	
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	2.02	30	
m,p-Xylene	0.213	0.010	"	0.200	0.0118	101	70-130	1.50	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	1.31	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0303*		*"*	*0.0396*		*76.6*	*23-173*			
Surrogate: Toluene-d8	*0.0381*		*"*	*0.0400*		*95.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0367*		*"*	*0.0400*		*91.6*	*21-167*			
Batch 1811038 - EPA 5030 Soil MS										
Blank (1811038-BLK1)				Prepared: 11/02/18 Analyzed: 11/03/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0410*		*"*	*0.0396*		*103*	*23-173*			
Surrogate: Toluene-d8	*0.0386*		*"*	*0.0400*		*96.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0392*		*"*	*0.0400*		*98.0*	*21-167*			
LCS (1811038-BS1)				Prepared: 11/02/18 Analyzed: 11/03/18						
Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.106	0.0050	"	0.100		106	70-130			
Ethylbenzene	0.113	0.0050	"	0.100		113	70-130			
m,p-Xylene	0.227	0.010	"	0.200		113	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0404*		*"*	*0.0396*		*102*	*23-173*			
Surrogate: Toluene-d8	*0.0386*		*"*	*0.0400*		*96.4*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0390*		*"*	*0.0400*		*97.5*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811038 - EPA 5030 Soil MS										
Matrix Spike (1811038-MS1)		**Source: 1811028-01**		Prepared: 11/02/18		Analyzed: 11/03/18				
Benzene	0.0949	0.0020	mg/kg	0.100	ND	94.9	70-130			
Toluene	0.101	0.0050	"	0.100	ND	101	70-130			
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
m,p-Xylene	0.217	0.010	"	0.200	0.00417	106	70-130			
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0391*		"	*0.0396*		*98.7*	*23-173*			
Surrogate: Toluene-d8	*0.0391*		"	*0.0400*		*97.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0418*		"	*0.0400*		*104*	*21-167*			
Matrix Spike Dup (1811038-MSD1)		**Source: 1811028-01**		Prepared: 11/02/18		Analyzed: 11/03/18				
Benzene	0.0988	0.0020	mg/kg	0.100	ND	98.8	70-130	4.03	30	
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	2.86	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	2.94	30	
m,p-Xylene	0.225	0.010	"	0.200	0.00417	110	70-130	3.80	30	
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130	4.37	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0408*		"	*0.0396*		*103*	*23-173*			
Surrogate: Toluene-d8	*0.0388*		"	*0.0400*		*97.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0396*		"	*0.0400*		*99.0*	*21-167*			
Batch 1811054 - EPA 5030 Soil MS										
Blank (1811054-BLK1)				Prepared & Analyzed: 11/05/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0453*		"	*0.0396*		*114*	*23-173*			
Surrogate: Toluene-d8	*0.0378*		"	*0.0400*		*94.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0393*		"	*0.0400*		*98.2*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811054 - EPA 5030 Soil MS										
LCS (1811054-BS1)				Prepared & Analyzed: 11/05/18						
Benzene	0.0722	0.0020	mg/kg	0.100		72.2	70-130			
Toluene	0.0754	0.0050	"	0.100		75.4	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.193	0.010	"	0.200		96.6	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0416*		"	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0380*		"	*0.0400*		*95.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0386*		"	*0.0400*		*96.4*	*21-167*			
Matrix Spike (1811054-MS1)		**Source: 1811031-04**		Prepared & Analyzed: 11/05/18						
Benzene	0.0740	0.0020	mg/kg	0.100		74.0	70-130			
Toluene	0.0752	0.0050	"	0.100		75.2	70-130			
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130			
m,p-Xylene	0.214	0.010	"	0.200		107	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0441*		"	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0400*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0412*		"	*0.0400*		*103*	*21-167*			
Matrix Spike Dup (1811054-MSD1)		**Source: 1811031-04**		Prepared & Analyzed: 11/05/18						
Benzene	0.0740	0.0020	mg/kg	0.100		74.0	70-130	0.00	30	
Toluene	0.0752	0.0050	"	0.100		75.2	70-130	0.00	30	
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130	0.00	30	
m,p-Xylene	0.214	0.010	"	0.200		107	70-130	0.00	30	
o-Xylene	0.103	0.0050	"	0.100		103	70-130	0.00	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0441*		"	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0400*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0412*		"	*0.0400*		*103*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811058 - EPA 5030 Soil MS										
Blank (1811058-BLK1)				Prepared: 11/05/18 Analyzed: 11/06/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0416*		"	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0417*		"	*0.0400*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0413*		"	*0.0400*		*103*	*21-167*			
LCS (1811058-BS1)				Prepared: 11/05/18 Analyzed: 11/06/18						
Benzene	0.0915	0.0020	mg/kg	0.100		91.5	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.212	0.010	"	0.200		106	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0422*		"	*0.0396*		*106*	*23-173*			
Surrogate: Toluene-d8	*0.0424*		"	*0.0400*		*106*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0396*		"	*0.0400*		*99.0*	*21-167*			
Matrix Spike (1811058-MS1)		**Source: 1811046-13**		Prepared: 11/05/18 Analyzed: 11/06/18						
Benzene	0.163	0.0020	mg/kg	0.100	0.0862	77.0	70-130			
Toluene	0.103	0.0050	"	0.100	0.00417	98.6	70-130			
Ethylbenzene	0.123	0.0050	"	0.100	0.0108	113	70-130			
m,p-Xylene	0.373	0.010	"	0.200	0.146	113	70-130			
o-Xylene	0.120	0.0050	"	0.100	0.0113	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0431*		"	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0416*		"	*0.0400*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0413*		"	*0.0400*		*103*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811058 - EPA 5030 Soil MS										
Matrix Spike Dup (1811058-MSD1)		**Source: 1811046-13**		Prepared: 11/05/18	Analyzed: 11/06/18					
Benzene	0.187	0.0020	mg/kg	0.100	0.0862	100	70-130	13.4	30	
Toluene	0.110	0.0050	"	0.100	0.00417	106	70-130	7.04	30	
Ethylbenzene	0.132	0.0050	"	0.100	0.0108	121	70-130	6.72	30	
m,p-Xylene	0.406	0.010	"	0.200	0.146	130	70-130	8.49	30	
o-Xylene	0.131	0.0050	"	0.100	0.0113	120	70-130	8.66	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0418*		*"*	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0410*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0403*		*"*	*0.0400*		*101*	*21-167*			
Batch 1811111 - EPA 5030 Soil MS										
Blank (1811111-BLK1)				Prepared: 11/08/18	Analyzed: 11/09/18					
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0430*		*"*	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0425*		*"*	*0.0400*		*106*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0393*		*"*	*0.0400*		*98.2*	*21-167*			
LCS (1811111-BS1)				Prepared: 11/08/18	Analyzed: 11/09/18					
Benzene	0.0938	0.0020	mg/kg	0.100		93.8	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.225	0.010	"	0.200		112	70-130			
o-Xylene	0.110	0.0050	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0413*		*"*	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0423*		*"*	*0.0400*		*106*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0391*		*"*	*0.0400*		*97.6*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811111 - EPA 5030 Soil MS										
Matrix Spike (1811111-MS1)		**Source: 1811077-01**		Prepared: 11/08/18		Analyzed: 11/09/18				
Benzene	0.0949	0.0020	mg/kg	0.100	ND	94.9	70-130			
Toluene	0.126	0.0050	"	0.100	0.0109	115	70-130			
Ethylbenzene	0.141	0.0050	"	0.100	0.0238	117	70-130			
m,p-Xylene	0.210	0.010	"	0.200	0.00525	103	70-130			
o-Xylene	1.48	0.0050	"	0.100	3000000	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.0425*		"	*0.0396*		*107*	*23-173*			
Surrogate: Toluene-d8	*0.0542*		"	*0.0400*		*136*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0691*		"	*0.0400*		*173*	*21-167*			*S-02*
Matrix Spike Dup (1811111-MSD1)		**Source: 1811077-01**		Prepared: 11/08/18		Analyzed: 11/09/18				
Benzene	0.0953	0.0020	mg/kg	0.100	ND	95.3	70-130	0.410	30	
Toluene	0.119	0.0050	"	0.100	0.0109	108	70-130	5.77	30	
Ethylbenzene	0.125	0.0050	"	0.100	0.0238	101	70-130	12.1	30	
m,p-Xylene	0.205	0.010	"	0.200	0.00525	100	70-130	2.41	30	
o-Xylene	1.09	0.0050	"	0.100	3000000	NR	70-130	30.2	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		"	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0500*		"	*0.0400*		*125*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0525*		"	*0.0400*		*131*	*21-167*			
Batch 1811124 - EPA 5030 Soil MS										
Blank (1811124-BLK1)				Prepared: 11/08/18		Analyzed: 11/09/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0439*		"	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0412*		"	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0380*		"	*0.0400*		*95.0*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811124 - EPA 5030 Soil MS										
LCS (1811124-BS1)				Prepared: 11/08/18 Analyzed: 11/09/18						
Benzene	0.0933	0.0020	mg/kg	0.100		93.3	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.229	0.010	"	0.200		115	70-130			
o-Xylene	0.113	0.0050	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0416*		"	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0404*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0382*		"	*0.0400*		*95.5*	*21-167*			
Matrix Spike (1811124-MS1)		**Source: 1811092-01**		Prepared: 11/08/18 Analyzed: 11/09/18						
Benzene	0.0913	0.0020	mg/kg	0.100	ND	91.3	70-130			
Toluene	0.105	0.0050	"	0.100	ND	105	70-130			
Ethylbenzene	0.179	0.0050	"	0.100	0.0360	143	70-130			QM-07
m,p-Xylene	1.50	0.010	"	0.200	0.671	415	70-130			QM-07
o-Xylene	0.243	0.0050	"	0.100	0.0703	173	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.0418*		"	*0.0396*		*106*	*23-173*			
Surrogate: Toluene-d8	*0.0488*		"	*0.0400*		*122*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0453*		"	*0.0400*		*113*	*21-167*			
Matrix Spike Dup (1811124-MSD1)		**Source: 1811092-01**		Prepared: 11/08/18 Analyzed: 11/09/18						
Benzene	0.0920	0.0020	mg/kg	0.100	ND	92.0	70-130	0.786	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	0.115	30	
Ethylbenzene	0.168	0.0050	"	0.100	0.0360	132	70-130	6.41	30	QM-07
m,p-Xylene	1.18	0.010	"	0.200	0.671	252	70-130	24.3	30	QM-07
o-Xylene	0.241	0.0050	"	0.100	0.0703	171	70-130	0.806	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.0428*		"	*0.0396*		*108*	*23-173*			
Surrogate: Toluene-d8	*0.0481*		"	*0.0400*		*120*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0423*		"	*0.0400*		*106*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811134 - EPA 5030 Soil MS										
Blank (1811134-BLK1)				Prepared: 11/09/18 Analyzed: 11/10/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0338*		"	*0.0396*		*85.2*	*23-173*			
Surrogate: Toluene-d8	*0.0392*		"	*0.0400*		*98.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0397*		"	*0.0400*		*99.2*	*21-167*			
LCS (1811134-BS1)				Prepared: 11/09/18 Analyzed: 11/10/18						
Benzene	0.0951	0.0020	mg/kg	0.100		95.1	70-130			
Toluene	0.0949	0.0050	"	0.100		94.9	70-130			
Ethylbenzene	0.0989	0.0050	"	0.100		98.9	70-130			
m,p-Xylene	0.195	0.010	"	0.200		97.3	70-130			
o-Xylene	0.0971	0.0050	"	0.100		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0331*		"	*0.0396*		*83.6*	*23-173*			
Surrogate: Toluene-d8	*0.0396*		"	*0.0400*		*98.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0400*		"	*0.0400*		*99.9*	*21-167*			
Matrix Spike (1811134-MS1)		**Source: 1811096-01**		Prepared: 11/09/18 Analyzed: 11/10/18						
Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130			
Toluene	0.111	0.0050	"	0.100	ND	111	70-130			
Ethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130			
m,p-Xylene	0.232	0.010	"	0.200	ND	116	70-130			
o-Xylene	0.110	0.0050	"	0.100	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0323*		"	*0.0396*		*81.6*	*23-173*			
Surrogate: Toluene-d8	*0.0402*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0397*		"	*0.0400*		*99.2*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811134 - EPA 5030 Soil MS										
Matrix Spike Dup (1811134-MSD1)		**Source: 1811096-01**		Prepared: 11/09/18 Analyzed: 11/10/18						
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	3.52	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	5.38	30	
Ethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130	2.75	30	
m,p-Xylene	0.227	0.010	"	0.200	ND	114	70-130	2.30	30	
o-Xylene	0.108	0.0050	"	0.100	ND	108	70-130	2.28	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0313*		*"*	*0.0396*		*78.9*	*23-173*			
Surrogate: Toluene-d8	*0.0392*		*"*	*0.0400*		*98.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0396*		*"*	*0.0400*		*98.9*	*21-167*			
Batch 1811148 - EPA 5030 Soil MS										
Blank (1811148-BLK1)				Prepared: 11/12/18 Analyzed: 11/13/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0340*		*"*	*0.0396*		*86.0*	*23-173*			
Surrogate: Toluene-d8	*0.0395*		*"*	*0.0400*		*98.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0392*		*"*	*0.0400*		*97.9*	*21-167*			
LCS (1811148-BS1)				Prepared: 11/12/18 Analyzed: 11/13/18						
Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.218	0.010	"	0.200		109	70-130			
o-Xylene	0.110	0.0050	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0310*		*"*	*0.0396*		*78.2*	*23-173*			
Surrogate: Toluene-d8	*0.0388*		*"*	*0.0400*		*97.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0383*		*"*	*0.0400*		*95.7*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811148 - EPA 5030 Soil MS										
Matrix Spike (1811148-MS1)		**Source: 1811111-01**		Prepared: 11/12/18		Analyzed: 11/13/18				
Benzene	0.0812	0.0020	mg/kg	0.100	ND	81.2	70-130			
Toluene	0.0808	0.0050	"	0.100	ND	80.8	70-130			
Ethylbenzene	0.0814	0.0050	"	0.100	ND	81.4	70-130			
m,p-Xylene	0.157	0.010	"	0.200	ND	78.4	70-130			
o-Xylene	0.0837	0.0050	"	0.100	ND	83.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0346*		*"*	*0.0396*		*87.5*	*23-173*			
Surrogate: Toluene-d8	*0.0396*		*"*	*0.0400*		*99.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0384*		*"*	*0.0400*		*96.0*	*21-167*			
Matrix Spike Dup (1811148-MSD1)		**Source: 1811111-01**		Prepared: 11/12/18		Analyzed: 11/13/18				
Benzene	0.0836	0.0020	mg/kg	0.100	ND	83.6	70-130	2.99	30	
Toluene	0.0829	0.0050	"	0.100	ND	82.9	70-130	2.46	30	
Ethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130	5.48	30	
m,p-Xylene	0.165	0.010	"	0.200	ND	82.7	70-130	5.36	30	
o-Xylene	0.0874	0.0050	"	0.100	ND	87.4	70-130	4.28	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0331*		*"*	*0.0396*		*83.6*	*23-173*			
Surrogate: Toluene-d8	*0.0394*		*"*	*0.0400*		*98.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0387*		*"*	*0.0400*		*96.7*	*21-167*			
Batch 1811164 - EPA 5030 Soil MS										
Blank (1811164-BLK1)				Prepared: 11/12/18		Analyzed: 11/13/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0404*		*"*	*0.0396*		*102*	*23-173*			
Surrogate: Toluene-d8	*0.0400*		*"*	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0387*		*"*	*0.0400*		*96.8*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811164 - EPA 5030 Soil MS										
LCS (1811164-BS1)				Prepared: 11/12/18 Analyzed: 11/13/18						
Benzene	0.0753	0.0020	mg/kg	0.100		75.3	70-130			
Toluene	0.0892	0.0050	"	0.100		89.2	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.201	0.010	"	0.200		100	70-130			
o-Xylene	0.0981	0.0050	"	0.100		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0420*		*"*	*0.0396*		*106*	*23-173*			
Surrogate: Toluene-d8	*0.0394*		*"*	*0.0400*		*98.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0389*		*"*	*0.0400*		*97.4*	*21-167*			
Matrix Spike (1811164-MS1)		**Source: 1811119-01**		Prepared: 11/12/18 Analyzed: 11/13/18						
Benzene	0.0756	0.0020	mg/kg	0.100	ND	75.6	70-130			
Toluene	0.0889	0.0050	"	0.100	ND	88.9	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.209	0.010	"	0.200	ND	105	70-130			
o-Xylene	0.0979	0.0050	"	0.100	ND	97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0401*		*"*	*0.0396*		*101*	*23-173*			
Surrogate: Toluene-d8	*0.0385*		*"*	*0.0400*		*96.3*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0382*		*"*	*0.0400*		*95.4*	*21-167*			
Matrix Spike Dup (1811164-MSD1)		**Source: 1811119-01**		Prepared: 11/12/18 Analyzed: 11/13/18						
Benzene	0.0760	0.0020	mg/kg	0.100	ND	76.0	70-130	0.593	30	
Toluene	0.0899	0.0050	"	0.100	ND	89.9	70-130	1.21	30	
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	0.308	30	
m,p-Xylene	0.209	0.010	"	0.200	ND	104	70-130	0.0144	30	
o-Xylene	0.0993	0.0050	"	0.100	ND	99.3	70-130	1.43	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0404*		*"*	*0.0396*		*102*	*23-173*			
Surrogate: Toluene-d8	*0.0387*		*"*	*0.0400*		*96.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0364*		*"*	*0.0400*		*91.0*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811171 - EPA 5030 Soil MS										
Blank (1811171-BLK1)				Prepared & Analyzed: 11/13/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0380*		"	*0.0396*		*96.0*	*23-173*			
Surrogate: Toluene-d8	*0.0371*		"	*0.0400*		*92.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0380*		"	*0.0400*		*95.0*	*21-167*			
LCS (1811171-BS1)				Prepared & Analyzed: 11/13/18						
Benzene	0.0764	0.0020	mg/kg	0.100		76.4	70-130			
Toluene	0.0900	0.0050	"	0.100		90.0	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.207	0.010	"	0.200		104	70-130			
o-Xylene	0.0977	0.0050	"	0.100		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0405*		"	*0.0396*		*102*	*23-173*			
Surrogate: Toluene-d8	*0.0391*		"	*0.0400*		*97.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0380*		"	*0.0400*		*94.9*	*21-167*			
Matrix Spike (1811171-MS1)		**Source: 1811139-01**		Prepared & Analyzed: 11/13/18						
Benzene	0.0758	0.0020	mg/kg	0.100	ND	75.8	70-130			
Toluene	0.0907	0.0050	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
m,p-Xylene	0.210	0.010	"	0.200	ND	105	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0420*		"	*0.0396*		*106*	*23-173*			
Surrogate: Toluene-d8	*0.0391*		"	*0.0400*		*97.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0385*		"	*0.0400*		*96.3*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811171 - EPA 5030 Soil MS										
Matrix Spike Dup (1811171-MSD1)		**Source: 1811139-01**		Prepared & Analyzed: 11/13/18						
Benzene	0.0778	0.0020	mg/kg	0.100	ND	77.8	70-130	2.62	30	
Toluene	0.0918	0.0050	"	0.100	ND	91.8	70-130	1.18	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	0.417	30	
m,p-Xylene	0.211	0.010	"	0.200	ND	106	70-130	0.327	30	
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130	0.622	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0422*		*"*	*0.0396*		*107*	*23-173*			
Surrogate: Toluene-d8	*0.0394*		*"*	*0.0400*		*98.4*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0380*		*"*	*0.0400*		*95.0*	*21-167*			
Batch 1811191 - EPA 5030 Soil MS										
Blank (1811191-BLK1)				Prepared: 11/14/18 Analyzed: 11/15/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0415*		*"*	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0392*		*"*	*0.0400*		*98.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0399*		*"*	*0.0400*		*99.7*	*21-167*			
LCS (1811191-BS1)				Prepared: 11/14/18 Analyzed: 11/15/18						
Benzene	0.0748	0.0020	mg/kg	0.100		74.8	70-130			
Toluene	0.0895	0.0050	"	0.100		89.5	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.204	0.010	"	0.200		102	70-130			
o-Xylene	0.0974	0.0050	"	0.100		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0418*		*"*	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0394*		*"*	*0.0400*		*98.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0388*		*"*	*0.0400*		*97.0*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811191 - EPA 5030 Soil MS										
Matrix Spike (1811191-MS1)		**Source: 1811158-01**		Prepared: 11/14/18		Analyzed: 11/15/18				
Benzene	0.0763	0.0020	mg/kg	0.100	ND	76.3	70-130			
Toluene	0.0887	0.0050	"	0.100	ND	88.7	70-130			
Ethylbenzene	0.124	0.0050	"	0.100	0.00852	116	70-130			
m,p-Xylene	0.603	0.010	"	0.200	0.147	228	70-130			QM-07
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0435*		*"*	*0.0396*		*110*	*23-173*			
Surrogate: Toluene-d8	*0.0378*		*"*	*0.0400*		*94.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0421*		*"*	*0.0400*		*105*	*21-167*			
Matrix Spike Dup (1811191-MSD1)		**Source: 1811158-01**		Prepared: 11/14/18		Analyzed: 11/15/18				
Benzene	0.0767	0.0020	mg/kg	0.100	ND	76.7	70-130	0.471	30	
Toluene	0.0890	0.0050	"	0.100	ND	89.0	70-130	0.405	30	
Ethylbenzene	0.125	0.0050	"	0.100	0.00852	117	70-130	1.18	30	
m,p-Xylene	0.584	0.010	"	0.200	0.147	218	70-130	3.20	30	QM-07
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	4.18	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0437*		*"*	*0.0396*		*110*	*23-173*			
Surrogate: Toluene-d8	*0.0386*		*"*	*0.0400*		*96.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0440*		*"*	*0.0400*		*110*	*21-167*			
Batch 1811209 - EPA 5030 Soil MS										
Blank (1811209-BLK1)				Prepared: 11/15/18		Analyzed: 11/16/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0401*		*"*	*0.0396*		*101*	*23-173*			
Surrogate: Toluene-d8	*0.0372*		*"*	*0.0400*		*93.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0368*		*"*	*0.0400*		*92.0*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811209 - EPA 5030 Soil MS										
LCS (1811209-BS1)				Prepared: 11/15/18		Analyzed: 11/16/18				
Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130			
m,p-Xylene	0.260	0.010	"	0.200		130	70-130			
o-Xylene	0.122	0.0050	"	0.100		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0420*		"	*0.0396*		*106*	*23-173*			
Surrogate: Toluene-d8	*0.0376*		"	*0.0400*		*94.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0376*		"	*0.0400*		*94.1*	*21-167*			
Matrix Spike (1811209-MS1)		**Source: 1811177-01**		Prepared: 11/15/18		Analyzed: 11/16/18				
Benzene	0.100	0.0020	mg/kg	0.100	ND	100	70-130			
Toluene	0.113	0.0050	"	0.100	ND	113	70-130			
Ethylbenzene	0.134	0.0050	"	0.100	ND	134	70-130			QM-07
m,p-Xylene	0.262	0.010	"	0.200	ND	131	70-130			QM-07
o-Xylene	0.121	0.0050	"	0.100	ND	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0422*		"	*0.0396*		*107*	*23-173*			
Surrogate: Toluene-d8	*0.0387*		"	*0.0400*		*96.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0368*		"	*0.0400*		*91.9*	*21-167*			
Matrix Spike Dup (1811209-MSD1)		**Source: 1811177-01**		Prepared: 11/15/18		Analyzed: 11/16/18				
Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	6.55	30	
Toluene	0.118	0.0050	"	0.100	ND	118	70-130	4.04	30	
Ethylbenzene	0.142	0.0050	"	0.100	ND	142	70-130	6.01	30	QM-07
m,p-Xylene	0.282	0.010	"	0.200	ND	141	70-130	7.12	30	QM-07
o-Xylene	0.129	0.0050	"	0.100	ND	129	70-130	6.80	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0417*		"	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0395*		"	*0.0400*		*98.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0380*		"	*0.0400*		*94.9*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811267 - EPA 5030 Soil MS										
Blank (1811267-BLK1)				Prepared: 11/20/18 Analyzed: 11/21/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0332*		"	*0.0396*		*83.8*	*23-173*			
Surrogate: Toluene-d8	*0.0312*		"	*0.0400*		*77.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0383*		"	*0.0400*		*95.8*	*21-167*			
LCS (1811267-BS1)				Prepared: 11/20/18 Analyzed: 11/21/18						
Benzene	0.106	0.0020	mg/kg	0.100		106	70-130			
Toluene	0.0972	0.0050	"	0.100		97.2	70-130			
Ethylbenzene	0.0993	0.0050	"	0.100		99.3	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.100	0.0050	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0377*		"	*0.0396*		*95.3*	*23-173*			
Surrogate: Toluene-d8	*0.0393*		"	*0.0400*		*98.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0382*		"	*0.0400*		*95.6*	*21-167*			
Matrix Spike (1811267-MS1)		**Source: 1811237-01**		Prepared: 11/20/18 Analyzed: 11/21/18						
Benzene	0.0832	0.0020	mg/kg	0.100	ND	83.2	70-130			
Toluene	0.0765	0.0050	"	0.100	ND	76.5	70-130			
Ethylbenzene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
m,p-Xylene	0.168	0.010	"	0.200	ND	84.1	70-130			
o-Xylene	0.0947	0.0050	"	0.100	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0390*		"	*0.0396*		*98.4*	*23-173*			
Surrogate: Toluene-d8	*0.0420*		"	*0.0400*		*105*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0466*		"	*0.0400*		*116*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811267 - EPA 5030 Soil MS										
Matrix Spike Dup (1811267-MSD1)		**Source: 1811237-01**		Prepared: 11/20/18	Analyzed: 11/21/18					
Benzene	0.0778	0.0020	mg/kg	0.100	ND	77.8	70-130	6.60	30	
Toluene	0.0756	0.0050	"	0.100	ND	75.6	70-130	1.10	30	
Ethylbenzene	0.0808	0.0050	"	0.100	ND	80.8	70-130	0.149	30	
m,p-Xylene	0.167	0.010	"	0.200	ND	83.7	70-130	0.536	30	
o-Xylene	0.0808	0.0050	"	0.100	ND	80.8	70-130	15.9	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0353*		*"*	*0.0396*		*89.2*	*23-173*			
Surrogate: Toluene-d8	*0.0320*		*"*	*0.0400*		*80.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0383*		*"*	*0.0400*		*95.8*	*21-167*			
Batch 1811284 - EPA 5030 Soil MS										
Blank (1811284-BLK1)				Prepared: 11/21/18	Analyzed: 11/27/18					
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0413*		*"*	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0374*		*"*	*0.0400*		*93.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0401*		*"*	*0.0400*		*100*	*21-167*			
LCS (1811284-BS1)				Prepared: 11/21/18	Analyzed: 11/27/18					
Benzene	0.0810	0.0020	mg/kg	0.100		81.0	70-130			
Toluene	0.0922	0.0050	"	0.100		92.2	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.212	0.010	"	0.200		106	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0418*		*"*	*0.0396*		*106*	*23-173*			
Surrogate: Toluene-d8	*0.0401*		*"*	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0412*		*"*	*0.0400*		*103*	*21-167*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811284 - EPA 5030 Soil MS										
Matrix Spike (1811284-MS1)		**Source: 1811248-01**		Prepared: 11/21/18		Analyzed: 11/27/18				
Benzene	0.0769	0.0020	mg/kg	0.100	ND	76.9	70-130			
Toluene	0.0905	0.0050	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
m,p-Xylene	0.214	0.010	"	0.200	ND	107	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0440*		*"*	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0388*		*"*	*0.0400*		*97.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0416*		*"*	*0.0400*		*104*	*21-167*			
Matrix Spike Dup (1811284-MSD1)		**Source: 1811248-01**		Prepared: 11/21/18		Analyzed: 11/27/18				
Benzene	0.0791	0.0020	mg/kg	0.100	ND	79.1	70-130	2.85	30	
Toluene	0.0923	0.0050	"	0.100	ND	92.3	70-130	1.97	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	2.26	30	
m,p-Xylene	0.211	0.010	"	0.200	ND	106	70-130	1.12	30	
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130	1.44	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0415*		*"*	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0393*		*"*	*0.0400*		*98.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0400*		*"*	*0.0400*		*99.9*	*21-167*			
Batch 1811315 - EPA 5030 Soil MS										
Blank (1811315-BLK1)				Prepared: 11/26/18		Analyzed: 11/27/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0413*		*"*	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0396*		*"*	*0.0400*		*99.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0419*		*"*	*0.0400*		*105*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811315 - EPA 5030 Soil MS										
LCS (1811315-BS1)				Prepared: 11/26/18 Analyzed: 11/27/18						
Benzene	0.176	0.0020	mg/kg	0.200		88.1	70-130			
Toluene	0.189	0.0050	"	0.200		94.3	70-130			
Ethylbenzene	0.210	0.0050	"	0.200		105	70-130			
m,p-Xylene	0.405	0.010	"	0.400		101	70-130			
o-Xylene	0.206	0.0050	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0415*		"	*0.0396*		*105*	*23-173*			
Surrogate: Toluene-d8	*0.0399*		"	*0.0400*		*99.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0417*		"	*0.0400*		*104*	*21-167*			
Matrix Spike (1811315-MS1)		**Source: 1811283-02**		Prepared: 11/26/18 Analyzed: 11/27/18						
Benzene	0.170	0.0020	mg/kg	0.200	0.00306	83.3	70-130			
Toluene	0.181	0.0050	"	0.200	ND	90.4	70-130			
Ethylbenzene	0.200	0.0050	"	0.200	ND	100	70-130			
m,p-Xylene	0.385	0.010	"	0.400	ND	96.1	70-130			
o-Xylene	0.193	0.0050	"	0.200	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0436*		"	*0.0396*		*110*	*23-173*			
Surrogate: Toluene-d8	*0.0398*		"	*0.0400*		*99.4*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0411*		"	*0.0400*		*103*	*21-167*			
Matrix Spike Dup (1811315-MSD1)		**Source: 1811283-02**		Prepared: 11/26/18 Analyzed: 11/27/18						
Benzene	0.172	0.0020	mg/kg	0.200	0.00306	84.4	70-130	1.32	30	
Toluene	0.183	0.0050	"	0.200	ND	91.7	70-130	1.43	30	
Ethylbenzene	0.206	0.0050	"	0.200	ND	103	70-130	2.86	30	
m,p-Xylene	0.398	0.010	"	0.400	ND	99.5	70-130	3.49	30	
o-Xylene	0.197	0.0050	"	0.200	ND	98.5	70-130	1.80	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0440*		"	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0402*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0424*		"	*0.0400*		*106*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811333 - EPA 5030 Soil MS										
Blank (1811333-BLK1)				Prepared: 11/27/18 Analyzed: 11/28/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0380*		"	*0.0396*		*96.1*	*23-173*			
Surrogate: Toluene-d8	*0.0399*		"	*0.0400*		*99.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0420*		"	*0.0400*		*105*	*21-167*			
LCS (1811333-BS1)				Prepared: 11/27/18 Analyzed: 11/28/18						
Benzene	0.0903	0.0020	mg/kg	0.100		90.3	70-130			
Toluene	0.0910	0.0050	"	0.100		91.0	70-130			
Ethylbenzene	0.0879	0.0050	"	0.100		87.9	70-130			
m,p-Xylene	0.177	0.010	"	0.200		88.3	70-130			
o-Xylene	0.0875	0.0050	"	0.100		87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0390*		"	*0.0396*		*98.5*	*23-173*			
Surrogate: Toluene-d8	*0.0414*		"	*0.0400*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0411*		"	*0.0400*		*103*	*21-167*			
Matrix Spike (1811333-MS1)		**Source: 1811302-01**		Prepared: 11/27/18 Analyzed: 11/28/18						
Benzene	0.0894	0.0020	mg/kg	0.100	ND	89.4	70-130			
Toluene	0.0909	0.0050	"	0.100	ND	90.9	70-130			
Ethylbenzene	0.0937	0.0050	"	0.100	0.00309	90.6	70-130			
m,p-Xylene	0.200	0.010	"	0.200	0.0196	90.1	70-130			
o-Xylene	0.0895	0.0050	"	0.100	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0394*		"	*0.0396*		*99.4*	*23-173*			
Surrogate: Toluene-d8	*0.0402*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0421*		"	*0.0400*		*105*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811333 - EPA 5030 Soil MS										
Matrix Spike Dup (1811333-MSD1)		**Source: 1811302-01**		Prepared: 11/27/18	Analyzed: 11/28/18					
Benzene	0.0890	0.0020	mg/kg	0.100	ND	89.0	70-130	0.370	30	
Toluene	0.0903	0.0050	"	0.100	ND	90.3	70-130	0.629	30	
Ethylbenzene	0.0950	0.0050	"	0.100	0.00309	91.9	70-130	1.37	30	
m,p-Xylene	0.199	0.010	"	0.200	0.0196	89.8	70-130	0.301	30	
o-Xylene	0.0904	0.0050	"	0.100	ND	90.4	70-130	1.03	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0392*		*"*	*0.0396*		*98.9*	*23-173*			
Surrogate: Toluene-d8	*0.0405*		*"*	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0435*		*"*	*0.0400*		*109*	*21-167*			
Batch 1811363 - EPA 5030 Soil MS										
Blank (1811363-BLK1)				Prepared: 11/28/18	Analyzed: 11/29/18					
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0413*		*"*	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0386*		*"*	*0.0400*		*96.4*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0423*		*"*	*0.0400*		*106*	*21-167*			
LCS (1811363-BS1)				Prepared: 11/28/18	Analyzed: 11/29/18					
Benzene	0.0778	0.0020	mg/kg	0.100		77.8	70-130			
Toluene	0.0881	0.0050	"	0.100		88.1	70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130			
m,p-Xylene	0.197	0.010	"	0.200		98.4	70-130			
o-Xylene	0.0964	0.0050	"	0.100		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0424*		*"*	*0.0396*		*107*	*23-173*			
Surrogate: Toluene-d8	*0.0393*		*"*	*0.0400*		*98.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0405*		*"*	*0.0400*		*101*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811363 - EPA 5030 Soil MS										
Matrix Spike (1811363-MS1)		**Source: 1811326-04**		Prepared: 11/28/18		Analyzed: 11/29/18				
Benzene	0.0852	0.0020	mg/kg	0.100	0.0107	74.6	70-130			
Toluene	0.0906	0.0050	"	0.100	ND	90.6	70-130			
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
m,p-Xylene	0.212	0.010	"	0.200	0.00693	102	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0433*		*"*	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0397*		*"*	*0.0400*		*99.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0414*		*"*	*0.0400*		*103*	*21-167*			
Matrix Spike Dup (1811363-MSD1)		**Source: 1811326-04**		Prepared: 11/28/18		Analyzed: 11/29/18				
Benzene	0.0849	0.0020	mg/kg	0.100	0.0107	74.2	70-130	0.353	30	
Toluene	0.0889	0.0050	"	0.100	ND	88.9	70-130	1.94	30	
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	1.88	30	
m,p-Xylene	0.209	0.010	"	0.200	0.00693	101	70-130	1.39	30	
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130	1.49	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0434*		*"*	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0396*		*"*	*0.0400*		*99.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0441*		*"*	*0.0400*		*110*	*21-167*			
Batch 1812017 - EPA 5030 Soil MS										
Blank (1812017-BLK1)				Prepared & Analyzed: 12/03/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0401*		*"*	*0.0396*		*101*	*23-173*			
Surrogate: Toluene-d8	*0.0376*		*"*	*0.0400*		*94.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0408*		*"*	*0.0400*		*102*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812017 - EPA 5030 Soil MS										
LCS (1812017-BS1)				Prepared & Analyzed: 12/03/18						
Benzene	0.0768	0.0020	mg/kg	0.100		76.8	70-130			
Toluene	0.0894	0.0050	"	0.100		89.4	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.0986	0.0050	"	0.100		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0419*		"	*0.0396*		*106*	*23-173*			
Surrogate: Toluene-d8	*0.0401*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0408*		"	*0.0400*		*102*	*21-167*			
Matrix Spike (1812017-MS1)		**Source: 1812001-01**		Prepared & Analyzed: 12/03/18						
Benzene	0.0777	0.0020	mg/kg	0.100	ND	77.7	70-130			
Toluene	0.0908	0.0050	"	0.100	ND	90.8	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.203	0.010	"	0.200	ND	101	70-130			
o-Xylene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0425*		"	*0.0396*		*107*	*23-173*			
Surrogate: Toluene-d8	*0.0400*		"	*0.0400*		*99.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0409*		"	*0.0400*		*102*	*21-167*			
Matrix Spike Dup (1812017-MSD1)		**Source: 1812001-01**		Prepared & Analyzed: 12/03/18						
Benzene	0.0769	0.0020	mg/kg	0.100	ND	76.9	70-130	1.13	30	
Toluene	0.0873	0.0050	"	0.100	ND	87.3	70-130	3.91	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	2.21	30	
m,p-Xylene	0.201	0.010	"	0.200	ND	101	70-130	0.757	30	
o-Xylene	0.0990	0.0050	"	0.100	ND	99.0	70-130	0.212	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0445*		"	*0.0396*		*112*	*23-173*			
Surrogate: Toluene-d8	*0.0392*		"	*0.0400*		*97.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0407*		"	*0.0400*		*102*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812034 - EPA 5030 Soil MS										
Blank (1812034-BLK1)				Prepared: 12/04/18 Analyzed: 12/05/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0413*		"	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0398*		"	*0.0400*		*99.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0421*		"	*0.0400*		*105*	*21-167*			
LCS (1812034-BS1)				Prepared: 12/04/18 Analyzed: 12/05/18						
Benzene	0.0753	0.0020	mg/kg	0.100		75.3	70-130			
Toluene	0.0925	0.0050	"	0.100		92.5	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.217	0.010	"	0.200		109	70-130			
o-Xylene	0.0999	0.0050	"	0.100		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0413*		"	*0.0396*		*104*	*23-173*			
Surrogate: Toluene-d8	*0.0380*		"	*0.0400*		*94.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0417*		"	*0.0400*		*104*	*21-167*			
Matrix Spike (1812034-MS1)		**Source: 1812023-02**		Prepared: 12/04/18 Analyzed: 12/05/18						
Benzene	0.0868	0.0020	mg/kg	0.100	0.0121	74.8	70-130			
Toluene	0.0934	0.0050	"	0.100	ND	93.4	70-130			
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130			
m,p-Xylene	0.229	0.010	"	0.200	0.0190	105	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0429*		"	*0.0396*		*108*	*23-173*			
Surrogate: Toluene-d8	*0.0391*		"	*0.0400*		*97.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0424*		"	*0.0400*		*106*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812034 - EPA 5030 Soil MS										
Matrix Spike Dup (1812034-MSD1)		**Source: 1812023-02**		Prepared: 12/04/18 Analyzed: 12/05/18						
Benzene	0.0904	0.0020	mg/kg	0.100	0.0121	78.4	70-130	4.03	30	
Toluene	0.0942	0.0050	"	0.100	ND	94.2	70-130	0.864	30	
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	1.93	30	
m,p-Xylene	0.226	0.010	"	0.200	0.0190	103	70-130	1.27	30	
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130	0.386	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0428*		*"*	*0.0396*		*108*	*23-173*			
Surrogate: Toluene-d8	*0.0403*		*"*	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0404*		*"*	*0.0400*		*101*	*21-167*			
Batch 1812083 - EPA 5030 Soil MS										
Blank (1812083-BLK1)				Prepared: 12/06/18 Analyzed: 12/07/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0384*		*"*	*0.0396*		*96.9*	*23-173*			
Surrogate: Toluene-d8	*0.0392*		*"*	*0.0400*		*98.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0398*		*"*	*0.0400*		*99.5*	*21-167*			
LCS (1812083-BS1)				Prepared: 12/06/18 Analyzed: 12/07/18						
Benzene	0.0893	0.0020	mg/kg	0.100		89.3	70-130			
Toluene	0.0887	0.0050	"	0.100		88.7	70-130			
Ethylbenzene	0.0930	0.0050	"	0.100		93.0	70-130			
m,p-Xylene	0.179	0.010	"	0.200		89.6	70-130			
o-Xylene	0.0900	0.0050	"	0.100		90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0377*		*"*	*0.0396*		*95.2*	*23-173*			
Surrogate: Toluene-d8	*0.0398*		*"*	*0.0400*		*99.5*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0388*		*"*	*0.0400*		*97.1*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812083 - EPA 5030 Soil MS										
Matrix Spike (1812083-MS1)		**Source: 1812067-07**		Prepared: 12/06/18		Analyzed: 12/07/18				
Benzene	0.0836	0.0020	mg/kg	0.100	ND	83.6	70-130			
Toluene	0.0838	0.0050	"	0.100	ND	83.8	70-130			
Ethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130			
m,p-Xylene	0.167	0.010	"	0.200	0.00456	81.1	70-130			
o-Xylene	0.0845	0.0050	"	0.100	ND	84.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0398*		*"*	*0.0396*		*101*	*23-173*			
Surrogate: Toluene-d8	*0.0395*		*"*	*0.0400*		*98.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0398*		*"*	*0.0400*		*99.4*	*21-167*			
Matrix Spike Dup (1812083-MSD1)		**Source: 1812067-07**		Prepared: 12/06/18		Analyzed: 12/07/18				
Benzene	0.0926	0.0020	mg/kg	0.100	ND	92.6	70-130	10.2	30	
Toluene	0.0916	0.0050	"	0.100	ND	91.6	70-130	8.93	30	
Ethylbenzene	0.0943	0.0050	"	0.100	ND	94.3	70-130	7.42	30	
m,p-Xylene	0.182	0.010	"	0.200	0.00456	88.8	70-130	8.82	30	
o-Xylene	0.0914	0.0050	"	0.100	ND	91.4	70-130	7.91	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0407*		*"*	*0.0396*		*103*	*23-173*			
Surrogate: Toluene-d8	*0.0411*		*"*	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0393*		*"*	*0.0400*		*98.2*	*21-167*			
Batch 1812144 - EPA 5030 Soil MS										
Blank (1812144-BLK1)				Prepared: 12/11/18		Analyzed: 12/12/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0441*		*"*	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0411*		*"*	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0424*		*"*	*0.0400*		*106*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812144 - EPA 5030 Soil MS										
LCS (1812144-BS1)				Prepared: 12/11/18		Analyzed: 12/12/18				
Benzene	0.117	0.0020	mg/kg	0.100		117	70-130			
Toluene	0.116	0.0050	"	0.100		116	70-130			
Ethylbenzene	0.121	0.0050	"	0.100		121	70-130			
m,p-Xylene	0.230	0.010	"	0.200		115	70-130			
o-Xylene	0.108	0.0050	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0453*		*"*	*0.0396*		*114*	*23-173*			
Surrogate: Toluene-d8	*0.0403*		*"*	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0444*		*"*	*0.0400*		*111*	*21-167*			
Matrix Spike (1812144-MS1)		**Source: 1812112-01**		Prepared: 12/11/18		Analyzed: 12/12/18				
Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130			
Toluene	0.114	0.0050	"	0.100	ND	114	70-130			
Ethylbenzene	0.120	0.0050	"	0.100	ND	120	70-130			
m,p-Xylene	0.227	0.010	"	0.200	ND	114	70-130			
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0459*		*"*	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0419*		*"*	*0.0400*		*105*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0419*		*"*	*0.0400*		*105*	*21-167*			
Matrix Spike Dup (1812144-MSD1)		**Source: 1812112-01**		Prepared: 12/11/18		Analyzed: 12/12/18				
Benzene	0.116	0.0020	mg/kg	0.100	ND	116	70-130	1.45	30	
Toluene	0.115	0.0050	"	0.100	ND	115	70-130	0.550	30	
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130	3.72	30	
m,p-Xylene	0.233	0.010	"	0.200	ND	116	70-130	2.32	30	
o-Xylene	0.111	0.0050	"	0.100	ND	111	70-130	4.42	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0430*		*"*	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0413*		*"*	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0446*		*"*	*0.0400*		*111*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812169 - EPA 5030 Soil MS										
Blank (1812169-BLK1)				Prepared: 12/12/18 Analyzed: 12/13/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0459*		"	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0421*		"	*0.0400*		*105*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0442*		"	*0.0400*		*110*	*21-167*			
LCS (1812169-BS1)				Prepared: 12/12/18 Analyzed: 12/13/18						
Benzene	0.115	0.0020	mg/kg	0.100		115	70-130			
Toluene	0.117	0.0050	"	0.100		117	70-130			
Ethylbenzene	0.122	0.0050	"	0.100		122	70-130			
m,p-Xylene	0.232	0.010	"	0.200		116	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0431*		"	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0413*		"	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0431*		"	*0.0400*		*108*	*21-167*			
Matrix Spike (1812169-MS1)		**Source: 1812135-02**		Prepared: 12/12/18 Analyzed: 12/13/18						
Benzene	0.118	0.0020	mg/kg	0.100	ND	118	70-130			
Toluene	0.118	0.0050	"	0.100	ND	118	70-130			
Ethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130			
m,p-Xylene	0.234	0.010	"	0.200	ND	117	70-130			
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0449*		"	*0.0396*		*113*	*23-173*			
Surrogate: Toluene-d8	*0.0430*		"	*0.0400*		*107*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0449*		"	*0.0400*		*112*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812169 - EPA 5030 Soil MS										
Matrix Spike Dup (1812169-MSD1)		**Source: 1812135-02**		Prepared: 12/12/18		Analyzed: 12/13/18				
Benzene	0.114	0.0020	mg/kg	0.100	ND	114	70-130	3.59	30	
Toluene	0.115	0.0050	"	0.100	ND	115	70-130	3.11	30	
Ethylbenzene	0.123	0.0050	"	0.100	ND	123	70-130	1.12	30	
m,p-Xylene	0.234	0.010	"	0.200	ND	117	70-130	0.0384	30	
o-Xylene	0.111	0.0050	"	0.100	ND	111	70-130	1.95	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0440*		*"*	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0411*		*"*	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0452*		*"*	*0.0400*		*113*	*21-167*			
Batch 1812194 - EPA 5030 Soil MS										
Blank (1812194-BLK1)				Prepared: 12/13/18		Analyzed: 12/14/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0339*		*"*	*0.0396*		*85.7*	*23-173*			
Surrogate: Toluene-d8	*0.0403*		*"*	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0394*		*"*	*0.0400*		*98.6*	*21-167*			
LCS (1812194-BS1)				Prepared: 12/13/18		Analyzed: 12/14/18				
Benzene	0.0871	0.0020	mg/kg	0.100		87.1	70-130			
Toluene	0.0896	0.0050	"	0.100		89.6	70-130			
Ethylbenzene	0.0950	0.0050	"	0.100		95.0	70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.5	70-130			
o-Xylene	0.0916	0.0050	"	0.100		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0366*		*"*	*0.0396*		*92.3*	*23-173*			
Surrogate: Toluene-d8	*0.0407*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0421*		*"*	*0.0400*		*105*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812194 - EPA 5030 Soil MS										
Matrix Spike (1812194-MS1)		**Source: 1812162-01**		Prepared: 12/13/18		Analyzed: 12/14/18				
Benzene	0.0810	0.0020	mg/kg	0.100	ND	81.0	70-130			
Toluene	0.0833	0.0050	"	0.100	ND	83.3	70-130			
Ethylbenzene	0.0895	0.0050	"	0.100	ND	89.5	70-130			
m,p-Xylene	0.174	0.010	"	0.200	ND	87.1	70-130			
o-Xylene	0.0848	0.0050	"	0.100	ND	84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0358*		*"*	*0.0396*		*90.5*	*23-173*			
Surrogate: Toluene-d8	*0.0409*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0416*		*"*	*0.0400*		*104*	*21-167*			
Matrix Spike Dup (1812194-MSD1)		**Source: 1812162-01**		Prepared: 12/13/18		Analyzed: 12/14/18				
Benzene	0.0883	0.0020	mg/kg	0.100	ND	88.3	70-130	8.61	30	
Toluene	0.0884	0.0050	"	0.100	ND	88.4	70-130	5.94	30	
Ethylbenzene	0.0958	0.0050	"	0.100	ND	95.8	70-130	6.80	30	
m,p-Xylene	0.186	0.010	"	0.200	ND	93.1	70-130	6.59	30	
o-Xylene	0.0930	0.0050	"	0.100	ND	93.0	70-130	9.18	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0369*		*"*	*0.0396*		*93.2*	*23-173*			
Surrogate: Toluene-d8	*0.0409*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0412*		*"*	*0.0400*		*103*	*21-167*			
Batch 1812214 - EPA 5030 Soil MS										
Blank (1812214-BLK1)				Prepared & Analyzed: 12/14/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0454*		*"*	*0.0396*		*115*	*23-173*			
Surrogate: Toluene-d8	*0.0410*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0426*		*"*	*0.0400*		*106*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812214 - EPA 5030 Soil MS										
LCS (1812214-BS1)				Prepared & Analyzed: 12/14/18						
Benzene	0.116	0.0020	mg/kg	0.100		116	70-130			
Toluene	0.113	0.0050	"	0.100		113	70-130			
Ethylbenzene	0.125	0.0050	"	0.100		125	70-130			
m,p-Xylene	0.234	0.010	"	0.200		117	70-130			
o-Xylene	0.111	0.0050	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0443*		"	*0.0396*		*112*	*23-173*			
Surrogate: Toluene-d8	*0.0404*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0428*		"	*0.0400*		*107*	*21-167*			
Matrix Spike (1812214-MS1)		**Source: 1812181-01**		Prepared & Analyzed: 12/14/18						
Benzene	0.121	0.0020	mg/kg	0.100	ND	121	70-130			
Toluene	0.117	0.0050	"	0.100	ND	117	70-130			
Ethylbenzene	0.122	0.0050	"	0.100	ND	122	70-130			
m,p-Xylene	0.229	0.010	"	0.200	ND	115	70-130			
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0454*		"	*0.0396*		*115*	*23-173*			
Surrogate: Toluene-d8	*0.0418*		"	*0.0400*		*105*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0422*		"	*0.0400*		*105*	*21-167*			
Matrix Spike Dup (1812214-MSD1)		**Source: 1812181-01**		Prepared & Analyzed: 12/14/18						
Benzene	0.122	0.0020	mg/kg	0.100	ND	122	70-130	0.961	30	
Toluene	0.118	0.0050	"	0.100	ND	118	70-130	0.230	30	
Ethylbenzene	0.127	0.0050	"	0.100	ND	127	70-130	3.74	30	
m,p-Xylene	0.238	0.010	"	0.200	ND	119	70-130	3.64	30	
o-Xylene	0.110	0.0050	"	0.100	ND	110	70-130	0.822	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0456*		"	*0.0396*		*115*	*23-173*			
Surrogate: Toluene-d8	*0.0415*		"	*0.0400*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0433*		"	*0.0400*		*108*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812233 - EPA 5030 Soil MS										
Blank (1812233-BLK1)				Prepared & Analyzed: 12/17/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0454*		"	*0.0396*		*115*	*23-173*			
Surrogate: Toluene-d8	*0.0376*		"	*0.0400*		*94.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0415*		"	*0.0400*		*104*	*21-167*			
LCS (1812233-BS1)				Prepared & Analyzed: 12/17/18						
Benzene	0.112	0.0020	mg/kg	0.100		112	70-130			
Toluene	0.113	0.0050	"	0.100		113	70-130			
Ethylbenzene	0.121	0.0050	"	0.100		121	70-130			
m,p-Xylene	0.237	0.010	"	0.200		119	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0453*		"	*0.0396*		*114*	*23-173*			
Surrogate: Toluene-d8	*0.0402*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0426*		"	*0.0400*		*106*	*21-167*			
Matrix Spike (1812233-MS1)		**Source: 1812201-01**		Prepared & Analyzed: 12/17/18						
Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130			
Toluene	0.113	0.0050	"	0.100	ND	113	70-130			
Ethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130			
m,p-Xylene	0.246	0.010	"	0.200	0.00366	121	70-130			
o-Xylene	0.112	0.0050	"	0.100	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0433*		"	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0401*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0449*		"	*0.0400*		*112*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812233 - EPA 5030 Soil MS										
Matrix Spike Dup (1812233-MSD1)		**Source: 1812201-01**		Prepared & Analyzed: 12/17/18						
Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130	0.622	30	
Toluene	0.111	0.0050	"	0.100	ND	111	70-130	1.34	30	
Ethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130	5.33	30	
m,p-Xylene	0.238	0.010	"	0.200	0.00366	117	70-130	3.22	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	7.20	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0449*		*"*	*0.0396*		*113*	*23-173*			
Surrogate: Toluene-d8	*0.0401*		*"*	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0425*		*"*	*0.0400*		*106*	*21-167*			
Batch 1812246 - EPA 5030 Soil MS										
Blank (1812246-BLK1)				Prepared: 12/18/18 Analyzed: 12/19/18						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0582*		*"*	*0.0396*		*147*	*23-173*			
Surrogate: Toluene-d8	*0.0459*		*"*	*0.0400*		*115*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0314*		*"*	*0.0400*		*78.5*	*21-167*			
LCS (1812246-BS1)				Prepared: 12/18/18 Analyzed: 12/19/18						
Benzene	0.122	0.0020	mg/kg	0.100		122	70-130			
Toluene	0.118	0.0050	"	0.100		118	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.260	0.010	"	0.200		130	70-130			
o-Xylene	0.127	0.0050	"	0.100		127	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0584*		*"*	*0.0396*		*147*	*23-173*			
Surrogate: Toluene-d8	*0.0384*		*"*	*0.0400*		*95.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0324*		*"*	*0.0400*		*81.0*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812246 - EPA 5030 Soil MS										
Matrix Spike (1812246-MS1)		**Source: 1812221-01**		Prepared: 12/18/18		Analyzed: 12/19/18				
Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130			
Toluene	0.104	0.0050	"	0.100	ND	104	70-130			
Ethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130			
m,p-Xylene	0.247	0.010	"	0.200	0.00390	121	70-130			
o-Xylene	0.122	0.0050	"	0.100	ND	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0569*		*"*	*0.0396*		*144*	*23-173*			
Surrogate: Toluene-d8	*0.0452*		*"*	*0.0400*		*113*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0416*		*"*	*0.0400*		*104*	*21-167*			
Matrix Spike Dup (1812246-MSD1)		**Source: 1812221-01**		Prepared: 12/18/18		Analyzed: 12/19/18				
Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130	4.53	30	
Toluene	0.115	0.0050	"	0.100	ND	115	70-130	9.39	30	
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130	0.957	30	
m,p-Xylene	0.241	0.010	"	0.200	0.00390	118	70-130	2.40	30	
o-Xylene	0.122	0.0050	"	0.100	ND	122	70-130	0.197	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0551*		*"*	*0.0396*		*139*	*23-173*			
Surrogate: Toluene-d8	*0.0406*		*"*	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0407*		*"*	*0.0400*		*102*	*21-167*			
Batch 1812290 - EPA 5030 Soil MS										
Blank (1812290-BLK1)				Prepared: 12/20/18		Analyzed: 12/21/18				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0431*		*"*	*0.0396*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0410*		*"*	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0419*		*"*	*0.0400*		*105*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812290 - EPA 5030 Soil MS										
LCS (1812290-BS1)				Prepared: 12/20/18 Analyzed: 12/21/18						
Benzene	0.116	0.0020	mg/kg	0.100		116	70-130			
Toluene	0.115	0.0050	"	0.100		115	70-130			
Ethylbenzene	0.121	0.0050	"	0.100		121	70-130			
m,p-Xylene	0.230	0.010	"	0.200		115	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0441*		"	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0411*		"	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0432*		"	*0.0400*		*108*	*21-167*			
Matrix Spike (1812290-MS1)		**Source: 1812260-01**		Prepared: 12/20/18 Analyzed: 12/21/18						
Benzene	0.113	0.0020	mg/kg	0.100	ND	113	70-130			
Toluene	0.115	0.0050	"	0.100	ND	115	70-130			
Ethylbenzene	0.123	0.0050	"	0.100	ND	123	70-130			
m,p-Xylene	0.254	0.010	"	0.200	0.0111	121	70-130			
o-Xylene	0.116	0.0050	"	0.100	0.00393	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0438*		"	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0395*		"	*0.0400*		*98.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0430*		"	*0.0400*		*107*	*21-167*			
Matrix Spike Dup (1812290-MSD1)		**Source: 1812260-01**		Prepared: 12/20/18 Analyzed: 12/21/18						
Benzene	0.118	0.0020	mg/kg	0.100	ND	118	70-130	4.65	30	
Toluene	0.122	0.0050	"	0.100	ND	122	70-130	5.76	30	
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130	1.26	30	
m,p-Xylene	0.244	0.010	"	0.200	0.0111	117	70-130	3.71	30	
o-Xylene	0.116	0.0050	"	0.100	0.00393	112	70-130	0.207	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0463*		"	*0.0396*		*117*	*23-173*			
Surrogate: Toluene-d8	*0.0409*		"	*0.0400*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0448*		"	*0.0400*		*112*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1901010 - EPA 5030 Soil MS										
Blank (1901010-BLK1)				Prepared & Analyzed: 01/02/19						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0346*		"	*0.0400*		*86.6*	*23-173*			
Surrogate: Toluene-d8	*0.0396*		"	*0.0400*		*98.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0447*		"	*0.0400*		*112*	*21-167*			
LCS (1901010-BS1)				Prepared: 01/02/19 Analyzed: 01/03/19						
Benzene	0.0804	0.0020	mg/kg	0.100		80.4	70-130			
Toluene	0.0777	0.0050	"	0.100		77.7	70-130			
Ethylbenzene	0.0960	0.0050	"	0.100		96.0	70-130			
m,p-Xylene	0.170	0.010	"	0.200		84.9	70-130			
o-Xylene	0.0879	0.0050	"	0.100		87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0318*		"	*0.0400*		*79.4*	*23-173*			
Surrogate: Toluene-d8	*0.0424*		"	*0.0400*		*106*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0434*		"	*0.0400*		*109*	*21-167*			
Matrix Spike (1901010-MS1)		**Source: 1901004-01**		Prepared: 01/02/19 Analyzed: 01/03/19						
Benzene	0.0836	0.0020	mg/kg	0.100	ND	83.6	70-130			
Toluene	0.0720	0.0050	"	0.100	ND	72.0	70-130			
Ethylbenzene	0.0940	0.0050	"	0.100	ND	94.0	70-130			
m,p-Xylene	0.176	0.010	"	0.200	0.00774	84.0	70-130			
o-Xylene	0.0958	0.0050	"	0.100	ND	95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0373*		"	*0.0400*		*93.2*	*23-173*			
Surrogate: Toluene-d8	*0.0373*		"	*0.0400*		*93.3*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0410*		"	*0.0400*		*102*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1901010 - EPA 5030 Soil MS										
Matrix Spike Dup (1901010-MSD1)		**Source: 1901004-01**		Prepared: 01/02/19 Analyzed: 01/03/19						
Benzene	0.0896	0.0020	mg/kg	0.100	ND	89.6	70-130	6.90	30	
Toluene	0.0957	0.0050	"	0.100	ND	95.7	70-130	28.2	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	12.5	30	
m,p-Xylene	0.202	0.010	"	0.200	0.00774	97.3	70-130	14.0	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	8.94	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0358*		*"*	*0.0400*		*89.4*	*23-173*			
Surrogate: Toluene-d8	*0.0412*		*"*	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0413*		*"*	*0.0400*		*103*	*21-167*			
Batch 1901026 - EPA 5030 Soil MS										
Blank (1901026-BLK1)				Prepared: 01/03/19 Analyzed: 01/04/19						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0491*		*"*	*0.0396*		*124*	*23-173*			
Surrogate: Toluene-d8	*0.0389*		*"*	*0.0400*		*97.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0382*		*"*	*0.0400*		*95.6*	*21-167*			
LCS (1901026-BS1)				Prepared: 01/03/19 Analyzed: 01/04/19						
Benzene	0.0818	0.0020	mg/kg	0.100		81.8	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.100	0.0050	"	0.100		100	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.0998	0.0050	"	0.100		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0541*		*"*	*0.0396*		*137*	*23-173*			
Surrogate: Toluene-d8	*0.0414*		*"*	*0.0400*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0368*		*"*	*0.0400*		*91.9*	*21-167*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1901026 - EPA 5030 Soil MS										
Matrix Spike (1901026-MS1)		**Source: 1901016-01**		Prepared: 01/03/19		Analyzed: 01/04/19				
Benzene	0.0785	0.0020	mg/kg	0.100	ND	78.5	70-130			
Toluene	0.0960	0.0050	"	0.100	ND	96.0	70-130			
Ethylbenzene	0.0997	0.0050	"	0.100	ND	99.7	70-130			
m,p-Xylene	0.201	0.010	"	0.200	ND	100	70-130			
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0496*		*"*	*0.0396*		*125*	*23-173*			
Surrogate: Toluene-d8	*0.0404*		*"*	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0368*		*"*	*0.0400*		*91.9*	*21-167*			
Matrix Spike Dup (1901026-MSD1)		**Source: 1901016-01**		Prepared: 01/03/19		Analyzed: 01/04/19				
Benzene	0.0795	0.0020	mg/kg	0.100	ND	79.5	70-130	1.29	30	
Toluene	0.0877	0.0050	"	0.100	ND	87.7	70-130	9.11	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	8.00	30	
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130	12.5	30	
o-Xylene	0.115	0.0050	"	0.100	ND	115	70-130	7.45	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0460*		*"*	*0.0396*		*116*	*23-173*			
Surrogate: Toluene-d8	*0.0396*		*"*	*0.0400*		*99.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0443*		*"*	*0.0400*		*111*	*21-167*			
Batch 1901130 - EPA 5030 Soil MS										
Blank (1901130-BLK1)				Prepared: 01/10/19		Analyzed: 01/11/19				
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0380*		*"*	*0.0396*		*95.8*	*23-173*			
Surrogate: Toluene-d8	*0.0410*		*"*	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0380*		*"*	*0.0400*		*95.0*	*21-167*			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1901130 - EPA 5030 Soil MS										
LCS (1901130-BS1)				Prepared: 01/10/19 Analyzed: 01/11/19						
Benzene	0.117	0.0020	mg/kg	0.100		117	70-130			
Toluene	0.127	0.0050	"	0.100		127	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.249	0.010	"	0.200		125	70-130			
o-Xylene	0.125	0.0050	"	0.100		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0386*		"	*0.0396*		*97.6*	*23-173*			
Surrogate: Toluene-d8	*0.0412*		"	*0.0400*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0401*		"	*0.0400*		*100*	*21-167*			
Matrix Spike (1901130-MS1)		**Source: 1901135-01**		Prepared: 01/10/19 Analyzed: 01/11/19						
Benzene	0.108	0.0020	mg/kg	0.100		108	70-130			
Toluene	0.118	0.0050	"	0.100		118	70-130			
Ethylbenzene	0.131	0.0050	"	0.100		131	70-130			QM-07
m,p-Xylene	0.259	0.010	"	0.200		129	70-130			
o-Xylene	0.119	0.0050	"	0.100		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0392*		"	*0.0396*		*98.9*	*23-173*			
Surrogate: Toluene-d8	*0.0403*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0395*		"	*0.0400*		*98.8*	*21-167*			
Matrix Spike Dup (1901130-MSD1)		**Source: 1901135-01**		Prepared: 01/10/19 Analyzed: 01/11/19						
Benzene	0.116	0.0020	mg/kg	0.100		116	70-130	7.64	30	
Toluene	0.126	0.0050	"	0.100		126	70-130	6.54	30	
Ethylbenzene	0.139	0.0050	"	0.100		139	70-130	5.96	30	QM-07
m,p-Xylene	0.279	0.010	"	0.200		139	70-130	7.49	30	QM-07
o-Xylene	0.127	0.0050	"	0.100		127	70-130	6.43	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0439*		"	*0.0396*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0404*		"	*0.0400*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0397*		"	*0.0400*		*99.2*	*21-167*			

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1805239 - EPA 3550A										
Blank (1805239-BLK1)				Prepared: 05/21/18 Analyzed: 05/22/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1805239-BS1)				Prepared: 05/21/18 Analyzed: 05/23/18						
C10-C28 (DRO)	568	50	mg/kg	500		114	70-130			
Matrix Spike (1805239-MS1)	**Source: 1805250-04**			Prepared: 05/21/18 Analyzed: 05/23/18						
C10-C28 (DRO)	565	50	mg/kg	500	11.3	111	70-130			
Matrix Spike Dup (1805239-MSD1)	**Source: 1805250-04**			Prepared: 05/21/18 Analyzed: 05/23/18						
C10-C28 (DRO)	562	50	mg/kg	500	11.3	110	70-130	0.509	20	
Batch 1807310 - EPA 3550A										
Blank (1807310-BLK1)				Prepared: 07/25/18 Analyzed: 07/26/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1807310-BS1)				Prepared: 07/25/18 Analyzed: 07/26/18						
C10-C28 (DRO)	473	50	mg/kg	500		94.6	70-130			
Matrix Spike (1807310-MS1)	**Source: 1807313-01**			Prepared: 07/25/18 Analyzed: 07/26/18						
C10-C28 (DRO)	520	50	mg/kg	500	25.8	98.8	70-130			
Matrix Spike Dup (1807310-MSD1)	**Source: 1807313-01**			Prepared: 07/25/18 Analyzed: 07/26/18						
C10-C28 (DRO)	506	50	mg/kg	500	25.8	96.1	70-130	2.62	20	
Batch 1808026 - EPA 3550A										
Blank (1808026-BLK1)				Prepared: 08/02/18 Analyzed: 08/03/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1808026 - EPA 3550A										
LCS (1808026-BS1)				Prepared: 08/02/18 Analyzed: 08/03/18						
C10-C28 (DRO)	472	50	mg/kg	500		94.5	70-130			
Matrix Spike (1808026-MS1)		**Source: 1808011-01**		Prepared: 08/02/18 Analyzed: 08/03/18						
C10-C28 (DRO)	487	50	mg/kg	500	27.1	92.1	70-130			
Matrix Spike Dup (1808026-MSD1)		**Source: 1808011-01**		Prepared: 08/02/18 Analyzed: 08/03/18						
C10-C28 (DRO)	547	50	mg/kg	500	27.1	104	70-130	11.5	20	
Batch 1810305 - EPA 3550A										
Blank (1810305-BLK1)				Prepared: 10/22/18 Analyzed: 10/23/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1810305-BS1)				Prepared: 10/22/18 Analyzed: 10/23/18						
C10-C28 (DRO)	608	50	mg/kg	500		122	70-130			
Matrix Spike (1810305-MS1)		**Source: 1810265-01**		Prepared: 10/22/18 Analyzed: 10/23/18						
C10-C28 (DRO)	531	50	mg/kg	500	17.5	103	70-130			
Matrix Spike Dup (1810305-MSD1)		**Source: 1810265-01**		Prepared: 10/22/18 Analyzed: 10/23/18						
C10-C28 (DRO)	524	50	mg/kg	500	17.5	101	70-130	1.40	20	
Batch 1810326 - EPA 3550A										
Blank (1810326-BLK1)				Prepared: 10/23/18 Analyzed: 10/24/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810326 - EPA 3550A										
LCS (1810326-BS1)				Prepared: 10/23/18		Analyzed: 10/24/18				
C10-C28 (DRO)	534	50	mg/kg	500		107	70-130			
Matrix Spike (1810326-MS1)		**Source: 1810279-01**		Prepared: 10/23/18		Analyzed: 10/24/18				
C10-C28 (DRO)	568	50	mg/kg	500	50.1	104	70-130			
Matrix Spike Dup (1810326-MSD1)		**Source: 1810279-01**		Prepared: 10/23/18		Analyzed: 10/24/18				
C10-C28 (DRO)	588	50	mg/kg	500	50.1	108	70-130	3.58	20	
Batch 1810350 - EPA 3550A										
Blank (1810350-BLK1)				Prepared: 10/24/18		Analyzed: 10/25/18				
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1810350-BS1)				Prepared: 10/24/18		Analyzed: 10/25/18				
C10-C28 (DRO)	612	50	mg/kg	500		122	70-130			
Matrix Spike (1810350-MS1)		**Source: 1810300-01**		Prepared: 10/24/18		Analyzed: 10/25/18				
C10-C28 (DRO)	531	50	mg/kg	500	14.1	103	70-130			
Matrix Spike Dup (1810350-MSD1)		**Source: 1810300-01**		Prepared: 10/24/18		Analyzed: 10/25/18				
C10-C28 (DRO)	517	50	mg/kg	500	14.1	101	70-130	2.59	20	
Batch 1810380 - EPA 3550A										
Blank (1810380-BLK1)				Prepared: 10/25/18		Analyzed: 10/26/18				
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810380 - EPA 3550A										
LCS (1810380-BS1)				Prepared: 10/25/18 Analyzed: 10/26/18						
C10-C28 (DRO)	496	50	mg/kg	500		99.1	70-130			
Matrix Spike (1810380-MS1)	**Source: 1810322-03**			Prepared: 10/25/18 Analyzed: 10/26/18						
C10-C28 (DRO)	460	50	mg/kg	500	40.5	83.8	70-130			
Matrix Spike Dup (1810380-MSD1)	**Source: 1810322-03**			Prepared: 10/25/18 Analyzed: 10/26/18						
C10-C28 (DRO)	473	50	mg/kg	500	40.5	86.5	70-130	2.95	20	
Batch 1810401 - EPA 3550A										
Blank (1810401-BLK1)				Prepared & Analyzed: 10/26/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1810401-BS1)				Prepared & Analyzed: 10/26/18						
C10-C28 (DRO)	553	50	mg/kg	500		111	70-130			
Matrix Spike (1810401-MS1)	**Source: 1810335-01**			Prepared & Analyzed: 10/26/18						
C10-C28 (DRO)	530	50	mg/kg	500	14.7	103	70-130			
Matrix Spike Dup (1810401-MSD1)	**Source: 1810335-01**			Prepared & Analyzed: 10/26/18						
C10-C28 (DRO)	547	50	mg/kg	500	14.7	106	70-130	3.22	20	
Batch 1810452 - EPA 3550A										
Blank (1810452-BLK1)				Prepared: 10/30/18 Analyzed: 10/31/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810452 - EPA 3550A										
LCS (1810452-BS1)				Prepared: 10/30/18 Analyzed: 10/31/18						
C10-C28 (DRO)	500	50	mg/kg	500		99.9	70-130			
Matrix Spike (1810452-MS1)	**Source: 1810388-09**			Prepared: 10/30/18 Analyzed: 10/31/18						
C10-C28 (DRO)	575	50	mg/kg	500	70.8	101	70-130			
Matrix Spike Dup (1810452-MSD1)	**Source: 1810388-09**			Prepared: 10/30/18 Analyzed: 10/31/18						
C10-C28 (DRO)	579	50	mg/kg	500	70.8	102	70-130	0.631	20	
Batch 1810471 - EPA 3550A										
Blank (1810471-BLK1)				Prepared & Analyzed: 10/31/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1810471-BS1)				Prepared & Analyzed: 10/31/18						
C10-C28 (DRO)	577	50	mg/kg	500		115	70-130			
Matrix Spike (1810471-MS1)	**Source: 1810335-07**			Prepared & Analyzed: 10/31/18						
C10-C28 (DRO)	613	50	mg/kg	500	20.4	119	70-130			
Matrix Spike Dup (1810471-MSD1)	**Source: 1810335-07**			Prepared & Analyzed: 10/31/18						
C10-C28 (DRO)	619	50	mg/kg	500	20.4	120	70-130	0.964	20	
Batch 1811022 - EPA 3550A										
Blank (1811022-BLK1)				Prepared & Analyzed: 11/01/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811022 - EPA 3550A										
LCS (1811022-BS1)				Prepared & Analyzed: 11/01/18						
C10-C28 (DRO)	433	50	mg/kg	500		86.5	70-130			
Matrix Spike (1811022-MS1)		**Source: 1811005-05**		Prepared & Analyzed: 11/01/18						
C10-C28 (DRO)	511	50	mg/kg	500	33.7	95.4	70-130			
Matrix Spike Dup (1811022-MSD1)		**Source: 1811005-05**		Prepared & Analyzed: 11/01/18						
C10-C28 (DRO)	513	50	mg/kg	500	33.7	95.9	70-130	0.465	20	
Batch 1811039 - EPA 3550A										
Blank (1811039-BLK1)				Prepared & Analyzed: 11/02/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811039-BS1)				Prepared & Analyzed: 11/02/18						
C10-C28 (DRO)	584	50	mg/kg	500		117	70-130			
Matrix Spike (1811039-MS1)		**Source: 1811028-01**		Prepared & Analyzed: 11/02/18						
C10-C28 (DRO)	631	50	mg/kg	500	18.3	123	70-130			
Matrix Spike Dup (1811039-MSD1)		**Source: 1811028-01**		Prepared & Analyzed: 11/02/18						
C10-C28 (DRO)	594	50	mg/kg	500	18.3	115	70-130	6.09	20	
Batch 1811055 - EPA 3550A										
Blank (1811055-BLK1)				Prepared & Analyzed: 11/05/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811055 - EPA 3550A										
LCS (1811055-BS1)				Prepared & Analyzed: 11/05/18						
C10-C28 (DRO)	531	50	mg/kg	500		106	70-130			
Matrix Spike (1811055-MS1)		**Source: 1811031-04**		Prepared & Analyzed: 11/05/18						
C10-C28 (DRO)	528	50	mg/kg	500	16.4	102	70-130			
Matrix Spike Dup (1811055-MSD1)		**Source: 1811031-04**		Prepared & Analyzed: 11/05/18						
C10-C28 (DRO)	518	50	mg/kg	500	16.4	100	70-130	1.84	20	
Batch 1811059 - EPA 3550A										
Blank (1811059-BLK1)				Prepared: 11/05/18 Analyzed: 11/06/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811059-BS1)				Prepared: 11/05/18 Analyzed: 11/06/18						
C10-C28 (DRO)	394	50	mg/kg	500		78.9	70-130			
Matrix Spike (1811059-MS1)		**Source: 1811046-09**		Prepared: 11/05/18 Analyzed: 11/06/18						
C10-C28 (DRO)	580	50	mg/kg	500	46.2	107	70-130			
Matrix Spike Dup (1811059-MSD1)		**Source: 1811046-09**		Prepared: 11/05/18 Analyzed: 11/06/18						
C10-C28 (DRO)	535	50	mg/kg	500	46.2	97.7	70-130	8.07	20	
Batch 1811112 - EPA 3550A										
Blank (1811112-BLK1)				Prepared: 11/08/18 Analyzed: 11/09/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811112 - EPA 3550A										
LCS (1811112-BS1)				Prepared: 11/08/18	Analyzed: 11/09/18					
C10-C28 (DRO)	601	50	mg/kg	500		120	70-130			
Matrix Spike (1811112-MS1)		**Source: 1811077-01**		Prepared: 11/08/18	Analyzed: 11/09/18					
C10-C28 (DRO)	1990	50	mg/kg	500	2730	NR	70-130			QM-07
Matrix Spike Dup (1811112-MSD1)		**Source: 1811077-01**		Prepared: 11/08/18	Analyzed: 11/09/18					
C10-C28 (DRO)	2240	50	mg/kg	500	2730	NR	70-130	12.0	20	QM-07
Batch 1811125 - EPA 3550A										
Blank (1811125-BLK1)				Prepared: 11/08/18	Analyzed: 11/09/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811125-BS1)				Prepared: 11/08/18	Analyzed: 11/09/18					
C10-C28 (DRO)	509	50	mg/kg	500		102	70-130			
Matrix Spike (1811125-MS1)		**Source: 1811092-01**		Prepared: 11/08/18	Analyzed: 11/09/18					
C10-C28 (DRO)	508	50	mg/kg	500	46.4	92.4	70-130			
Matrix Spike Dup (1811125-MSD1)		**Source: 1811092-01**		Prepared: 11/08/18	Analyzed: 11/09/18					
C10-C28 (DRO)	480	50	mg/kg	500	46.4	86.8	70-130	5.65	20	
Batch 1811133 - EPA 3550A										
Blank (1811133-BLK1)				Prepared: 11/09/18	Analyzed: 11/10/18					
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811133 - EPA 3550A										
LCS (1811133-BS1)				Prepared: 11/09/18	Analyzed: 11/10/18					
C10-C28 (DRO)	540	50	mg/kg	500		108	70-130			
Matrix Spike (1811133-MS1)		**Source: 1811096-01**		Prepared: 11/09/18	Analyzed: 11/10/18					
C10-C28 (DRO)	641	50	mg/kg	500	20.8	124	70-130			
Matrix Spike Dup (1811133-MSD1)		**Source: 1811096-01**		Prepared: 11/09/18	Analyzed: 11/10/18					
C10-C28 (DRO)	644	50	mg/kg	500	20.8	125	70-130	0.578	20	
Batch 1811146 - EPA 3550A										
Blank (1811146-BLK1)				Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811146-BS1)				Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	462	50	mg/kg	500		92.5	70-130			
Matrix Spike (1811146-MS1)		**Source: 1811111-01**		Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	463	50	mg/kg	500	21.1	88.4	70-130			
Matrix Spike Dup (1811146-MSD1)		**Source: 1811111-01**		Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	453	50	mg/kg	500	21.1	86.3	70-130	2.24	20	
Batch 1811163 - EPA 3550A										
Blank (1811163-BLK1)				Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811163 - EPA 3550A										
LCS (1811163-BS1)				Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	459	50	mg/kg	500		91.7	70-130			
Matrix Spike (1811163-MS1)	**Source: 1811119-01**			Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	665	50	mg/kg	500	254	82.2	70-130			
Matrix Spike Dup (1811163-MSD1)	**Source: 1811119-01**			Prepared: 11/12/18	Analyzed: 11/13/18					
C10-C28 (DRO)	683	50	mg/kg	500	254	85.8	70-130	2.67	20	
Batch 1811172 - EPA 3550A										
Blank (1811172-BLK1)				Prepared: 11/13/18	Analyzed: 11/14/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811172-BS1)				Prepared: 11/13/18	Analyzed: 11/14/18					
C10-C28 (DRO)	459	50	mg/kg	500		91.8	70-130			
Matrix Spike (1811172-MS1)	**Source: 1811137-01**			Prepared: 11/13/18	Analyzed: 11/14/18					
C10-C28 (DRO)	848	50	mg/kg	500	124	145	70-130			QM-07
Matrix Spike Dup (1811172-MSD1)	**Source: 1811137-01**			Prepared: 11/13/18	Analyzed: 11/14/18					
C10-C28 (DRO)	778	50	mg/kg	500	124	131	70-130	8.53	20	QM-07
Batch 1811192 - EPA 3550A										
Blank (1811192-BLK1)				Prepared: 11/14/18	Analyzed: 11/15/18					
C10-C28 (DRO)	ND	50	mg/kg							

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Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811192 - EPA 3550A										
LCS (1811192-BS1)				Prepared: 11/14/18 Analyzed: 11/15/18						
C10-C28 (DRO)	555	50	mg/kg	500		111	70-130			
Matrix Spike (1811192-MS1)	**Source: 1811158-01**			Prepared: 11/14/18 Analyzed: 11/15/18						
C10-C28 (DRO)	591	50	mg/kg	500	26.2	113	70-130			
Matrix Spike Dup (1811192-MSD1)	**Source: 1811158-01**			Prepared: 11/14/18 Analyzed: 11/15/18						
C10-C28 (DRO)	581	50	mg/kg	500	26.2	111	70-130	1.74	20	
Batch 1811210 - EPA 3550A										
Blank (1811210-BLK1)				Prepared: 11/15/18 Analyzed: 11/16/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811210-BS1)				Prepared: 11/15/18 Analyzed: 11/16/18						
C10-C28 (DRO)	512	50	mg/kg	500		102	70-130			
Matrix Spike (1811210-MS1)	**Source: 1811176-01**			Prepared: 11/15/18 Analyzed: 11/16/18						
C10-C28 (DRO)	838	50	mg/kg	500	459	75.9	70-130			
Matrix Spike Dup (1811210-MSD1)	**Source: 1811176-01**			Prepared: 11/15/18 Analyzed: 11/16/18						
C10-C28 (DRO)	941	50	mg/kg	500	459	96.5	70-130	11.5	20	
Batch 1811268 - EPA 3550A										
Blank (1811268-BLK1)				Prepared & Analyzed: 11/20/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811268 - EPA 3550A										
LCS (1811268-BS1)				Prepared: 11/20/18	Analyzed: 11/21/18					
C10-C28 (DRO)	470	50	mg/kg	500		94.0	70-130			
Matrix Spike (1811268-MS1)		**Source: 1811235-01**		Prepared: 11/20/18	Analyzed: 11/21/18					
C10-C28 (DRO)	1400	50	mg/kg	500	942	90.6	70-130			
Matrix Spike Dup (1811268-MSD1)		**Source: 1811235-01**		Prepared: 11/20/18	Analyzed: 11/21/18					
C10-C28 (DRO)	1330	50	mg/kg	500	942	78.0	70-130	4.60	20	
Batch 1811283 - EPA 3550A										
Blank (1811283-BLK1)				Prepared: 11/21/18	Analyzed: 11/22/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811283-BS1)				Prepared: 11/21/18	Analyzed: 11/22/18					
C10-C28 (DRO)	606	50	mg/kg	500		121	70-130			
Matrix Spike (1811283-MS1)		**Source: 1811238-01**		Prepared: 11/21/18	Analyzed: 11/22/18					
C10-C28 (DRO)	607	50	mg/kg	500	37.5	114	70-130			
Matrix Spike Dup (1811283-MSD1)		**Source: 1811238-01**		Prepared: 11/21/18	Analyzed: 11/22/18					
C10-C28 (DRO)	631	50	mg/kg	500	37.5	119	70-130	3.93	20	
Batch 1811316 - EPA 3550A										
Blank (1811316-BLK1)				Prepared & Analyzed: 11/26/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811316 - EPA 3550A										
LCS (1811316-BS1)				Prepared: 11/26/18	Analyzed: 11/27/18					
C10-C28 (DRO)	407	50	mg/kg	500		81.4	70-130			
Matrix Spike (1811316-MS1)	**Source: 1811283-02**			Prepared: 11/26/18	Analyzed: 11/27/18					
C10-C28 (DRO)	431	50	mg/kg	500	15.0	83.3	70-130			
Matrix Spike Dup (1811316-MSD1)	**Source: 1811283-02**			Prepared: 11/26/18	Analyzed: 11/27/18					
C10-C28 (DRO)	438	50	mg/kg	500	15.0	84.5	70-130	1.45	20	
Batch 1811334 - EPA 3550A										
Blank (1811334-BLK1)				Prepared: 11/27/18	Analyzed: 11/28/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1811334-BS1)				Prepared: 11/27/18	Analyzed: 11/28/18					
C10-C28 (DRO)	453	50	mg/kg	500		90.7	70-130			
Matrix Spike (1811334-MS1)	**Source: 1811302-01**			Prepared: 11/27/18	Analyzed: 11/28/18					
C10-C28 (DRO)	437	50	mg/kg	500	31.4	81.1	70-130			
Matrix Spike Dup (1811334-MSD1)	**Source: 1811302-01**			Prepared: 11/27/18	Analyzed: 11/28/18					
C10-C28 (DRO)	472	50	mg/kg	500	31.4	88.1	70-130	7.61	20	
Batch 1811365 - EPA 3550A										
Blank (1811365-BLK1)				Prepared: 11/28/18	Analyzed: 11/29/18					
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811365 - EPA 3550A										
LCS (1811365-BS1)				Prepared: 11/28/18 Analyzed: 11/29/18						
C10-C28 (DRO)	459	50	mg/kg	500		91.8	70-130			
C28-C36 (ORO)	8.27	50	"				70-130			
Matrix Spike (1811365-MS1)	**Source: 1811326-01**			Prepared: 11/28/18 Analyzed: 11/29/18						
C10-C28 (DRO)	655	50	mg/kg	500	179	95.1	70-130			
C28-C36 (ORO)	15.7	50	"		15.6		70-130			
Matrix Spike Dup (1811365-MSD1)	**Source: 1811326-01**			Prepared: 11/28/18 Analyzed: 11/29/18						
C10-C28 (DRO)	620	50	mg/kg	500	179	88.2	70-130	5.46	20	
C28-C36 (ORO)	16.0	50	"		15.6		70-130	1.55	20	
Batch 1812018 - EPA 3550A										
Blank (1812018-BLK1)				Prepared & Analyzed: 12/03/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1812018-BS1)				Prepared & Analyzed: 12/03/18						
C10-C28 (DRO)	559	50	mg/kg	500		112	70-130			
Matrix Spike (1812018-MS1)	**Source: 1812001-01**			Prepared & Analyzed: 12/03/18						
C10-C28 (DRO)	896	50	mg/kg	500	784	22.4	70-130			QM-07
Matrix Spike Dup (1812018-MSD1)	**Source: 1812001-01**			Prepared & Analyzed: 12/03/18						
C10-C28 (DRO)	905	50	mg/kg	500	784	24.2	70-130	0.985	20	QM-07
Batch 1812035 - EPA 3550A										
Blank (1812035-BLK1)				Prepared & Analyzed: 12/04/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812035 - EPA 3550A										
LCS (1812035-BS1)				Prepared & Analyzed: 12/04/18						
C10-C28 (DRO)	548	50	mg/kg	500		110	70-130			
Matrix Spike (1812035-MS1)		**Source: 1812023-01**		Prepared & Analyzed: 12/04/18						
C10-C28 (DRO)	592	50	mg/kg	500	77.8	103	70-130			
Matrix Spike Dup (1812035-MSD1)		**Source: 1812023-01**		Prepared & Analyzed: 12/04/18						
C10-C28 (DRO)	613	50	mg/kg	500	77.8	107	70-130	3.55	20	
Batch 1812085 - EPA 3550A										
Blank (1812085-BLK1)				Prepared: 12/06/18 Analyzed: 12/07/18						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1812085-BS1)				Prepared: 12/06/18 Analyzed: 12/07/18						
C10-C28 (DRO)	588	50	mg/kg	500		118	70-130			
Matrix Spike (1812085-MS1)		**Source: 1812067-07**		Prepared: 12/06/18 Analyzed: 12/07/18						
C10-C28 (DRO)	584	50	mg/kg	500	21.0	113	70-130			
Matrix Spike Dup (1812085-MSD1)		**Source: 1812067-07**		Prepared: 12/06/18 Analyzed: 12/07/18						
C10-C28 (DRO)	602	50	mg/kg	500	21.0	116	70-130	2.91	20	
Batch 1812145 - EPA 3550A										
Blank (1812145-BLK1)				Prepared: 12/11/18 Analyzed: 12/12/18						
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812145 - EPA 3550A										
LCS (1812145-BS1)				Prepared: 12/11/18	Analyzed: 12/12/18					
C10-C28 (DRO)	604	50	mg/kg	500		121	70-130			
Matrix Spike (1812145-MS1)		**Source: 1812112-01**		Prepared: 12/11/18	Analyzed: 12/12/18					
C10-C28 (DRO)	568	50	mg/kg	500	28.6	108	70-130			
Matrix Spike Dup (1812145-MSD1)		**Source: 1812112-01**		Prepared: 12/11/18	Analyzed: 12/12/18					
C10-C28 (DRO)	516	50	mg/kg	500	28.6	97.5	70-130	9.58	20	
Batch 1812168 - EPA 3550A										
Blank (1812168-BLK1)				Prepared: 12/12/18	Analyzed: 12/13/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1812168-BS1)				Prepared: 12/12/18	Analyzed: 12/13/18					
C10-C28 (DRO)	617	50	mg/kg	500		123	70-130			
Matrix Spike (1812168-MS1)		**Source: 1812135-02**		Prepared: 12/12/18	Analyzed: 12/13/18					
C10-C28 (DRO)	629	50	mg/kg	500	20.7	122	70-130			
Matrix Spike Dup (1812168-MSD1)		**Source: 1812135-02**		Prepared: 12/12/18	Analyzed: 12/13/18					
C10-C28 (DRO)	622	50	mg/kg	500	20.7	120	70-130	1.08	20	
Batch 1812195 - EPA 3550A										
Blank (1812195-BLK1)				Prepared: 12/13/18	Analyzed: 12/14/18					
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812195 - EPA 3550A										
LCS (1812195-BS1)				Prepared: 12/13/18	Analyzed: 12/14/18					
C10-C28 (DRO)	542	50	mg/kg	500		108	70-130			
Matrix Spike (1812195-MS1)	**Source: 1812162-01**			Prepared: 12/13/18	Analyzed: 12/14/18					
C10-C28 (DRO)	672	50	mg/kg	500	24.5	129	70-130			
Matrix Spike Dup (1812195-MSD1)	**Source: 1812162-01**			Prepared: 12/13/18	Analyzed: 12/14/18					
C10-C28 (DRO)	624	50	mg/kg	500	24.5	120	70-130	7.46	20	
Batch 1812215 - EPA 3550A										
Blank (1812215-BLK1)				Prepared: 12/14/18	Analyzed: 12/15/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1812215-BS1)				Prepared: 12/14/18	Analyzed: 12/15/18					
C10-C28 (DRO)	510	50	mg/kg	500		102	70-130			
Matrix Spike (1812215-MS1)	**Source: 1812181-01**			Prepared: 12/14/18	Analyzed: 12/15/18					
C10-C28 (DRO)	610	50	mg/kg	500	17.2	119	70-130			
Matrix Spike Dup (1812215-MSD1)	**Source: 1812181-01**			Prepared: 12/14/18	Analyzed: 12/15/18					
C10-C28 (DRO)	632	50	mg/kg	500	17.2	123	70-130	3.57	20	
Batch 1812234 - EPA 3550A										
Blank (1812234-BLK1)				Prepared: 12/17/18	Analyzed: 12/18/18					
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812234 - EPA 3550A										
LCS (1812234-BS1)				Prepared: 12/17/18	Analyzed: 12/18/18					
C10-C28 (DRO)	539	50	mg/kg	500		108	70-130			
Matrix Spike (1812234-MS1)	**Source: 1812201-01**			Prepared: 12/17/18	Analyzed: 12/18/18					
C10-C28 (DRO)	590	50	mg/kg	500	22.2	113	70-130			
Matrix Spike Dup (1812234-MSD1)	**Source: 1812201-01**			Prepared: 12/17/18	Analyzed: 12/18/18					
C10-C28 (DRO)	601	50	mg/kg	500	22.2	116	70-130	1.85	20	
Batch 1812247 - EPA 3550A										
Blank (1812247-BLK1)				Prepared: 12/18/18	Analyzed: 12/19/18					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1812247-BS1)				Prepared: 12/18/18	Analyzed: 12/19/18					
C10-C28 (DRO)	565	50	mg/kg	500		113	70-130			
Matrix Spike (1812247-MS1)	**Source: 1812221-01**			Prepared: 12/18/18	Analyzed: 12/19/18					
C10-C28 (DRO)	549	50	mg/kg	500	21.4	106	70-130			
Matrix Spike Dup (1812247-MSD1)	**Source: 1812221-01**			Prepared: 12/18/18	Analyzed: 12/19/18					
C10-C28 (DRO)	576	50	mg/kg	500	21.4	111	70-130	4.67	20	
Batch 1812291 - EPA 3550A										
Blank (1812291-BLK1)				Prepared: 12/20/18	Analyzed: 12/21/18					
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1812291 - EPA 3550A										
LCS (1812291-BS1)				Prepared: 12/20/18		Analyzed: 12/21/18				
C10-C28 (DRO)	596	50	mg/kg	500		119	70-130			
Matrix Spike (1812291-MS1)		**Source: 1812260-01**		Prepared: 12/20/18		Analyzed: 12/21/18				
C10-C28 (DRO)	648	50	mg/kg	500	21.6	125	70-130			
Matrix Spike Dup (1812291-MSD1)		**Source: 1812260-01**		Prepared: 12/20/18		Analyzed: 12/21/18				
C10-C28 (DRO)	648	50	mg/kg	500	21.6	125	70-130	0.0552	20	
Batch 1901011 - EPA 5030 Soil GC										
Blank (1901011-BLK1)				Prepared: 01/02/19		Analyzed: 01/03/19				
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1901011-BS1)				Prepared: 01/02/19		Analyzed: 01/03/19				
C10-C28 (DRO)	535	50	mg/kg	500		107	70-130			
Matrix Spike (1901011-MS1)		**Source: 1901004-01**		Prepared: 01/02/19		Analyzed: 01/03/19				
C10-C28 (DRO)	501	50	mg/kg	500	32.7	93.7	70-130			
Matrix Spike Dup (1901011-MSD1)		**Source: 1901004-01**		Prepared: 01/02/19		Analyzed: 01/03/19				
C10-C28 (DRO)	498	50	mg/kg	500	32.7	93.1	70-130	0.612	20	
Batch 1901027 - EPA 3550A										
Blank (1901027-BLK1)				Prepared: 01/03/19		Analyzed: 01/04/19				
C10-C28 (DRO)	ND	50	mg/kg							

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1901027 - EPA 3550A										
LCS (1901027-BS1)				Prepared: 01/03/19	Analyzed: 01/04/19					
C10-C28 (DRO)	573	50	mg/kg	500		115	70-130			
Matrix Spike (1901027-MS1)	**Source: 1901016-01**			Prepared: 01/03/19	Analyzed: 01/04/19					
C10-C28 (DRO)	651	50	mg/kg	500	188	92.6	70-130			
Matrix Spike Dup (1901027-MSD1)	**Source: 1901016-01**			Prepared: 01/03/19	Analyzed: 01/04/19					
C10-C28 (DRO)	671	50	mg/kg	500	188	96.4	70-130	2.90	20	
Batch 1901131 - EPA 3550A										
Blank (1901131-BLK1)				Prepared: 01/10/19	Analyzed: 01/11/19					
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1901131-BS1)				Prepared: 01/10/19	Analyzed: 01/11/19					
C10-C28 (DRO)	547	50	mg/kg	500		109	70-130			
Matrix Spike (1901131-MS1)	**Source: 1901136-01**			Prepared: 01/10/19	Analyzed: 01/11/19					
C10-C28 (DRO)	535	50	mg/kg	500	7.04	106	70-130			
Matrix Spike Dup (1901131-MSD1)	**Source: 1901136-01**			Prepared: 01/10/19	Analyzed: 01/11/19					
C10-C28 (DRO)	560	50	mg/kg	500	7.04	111	70-130	4.45	20	
Batch 1901132 - EPA 3550A										
Blank (1901132-BLK1)				Prepared: 01/10/19	Analyzed: 01/11/19					
C10-C28 (DRO)	ND	50	mg/kg							

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1901132 - EPA 3550A										
LCS (1901132-BS1)				Prepared: 01/10/19 Analyzed: 01/11/19						
C10-C28 (DRO)	552	50	mg/kg	500		110	70-130			
Matrix Spike (1901132-MS1)	**Source: 1901135-01**			Prepared: 01/10/19 Analyzed: 01/11/19						
C10-C28 (DRO)	651	50	mg/kg	500	17.4	127	70-130			
Matrix Spike Dup (1901132-MSD1)	**Source: 1901135-01**			Prepared: 01/10/19 Analyzed: 01/11/19						
C10-C28 (DRO)	648	50	mg/kg	500	17.4	126	70-130	0.462	20	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810351 - General Preparation										
Blank (1810351-BLK1)				Prepared & Analyzed: 10/24/18						
Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							
LCS (1810351-BS1)				Prepared & Analyzed: 10/24/18						
Calcium	1200	10.0	mg/kg wet	1000		120	70-130			
Magnesium	1200	5.00	"	1000		120	70-130			
Sodium	1200	5.00	"	1000		120	70-130			
Duplicate (1810351-DUP1)		**Source: 1810301-01**		Prepared & Analyzed: 10/24/18						
Calcium	2890	11.5	mg/kg dry		2660			8.28	20	
Magnesium	613	5.73	"		637			3.88	20	
Sodium	83.9	5.73	"		86.3			2.86	20	
Matrix Spike (1810351-MS1)		**Source: 1810301-01**		Prepared & Analyzed: 10/24/18						
Calcium	4130	11.5	mg/kg dry	1150	2660	129	70-130			
Magnesium	1890	5.73	"	1150	637	109	70-130			
Sodium	1380	5.73	"	1150	86.3	113	70-130			
Matrix Spike Dup (1810351-MSD1)		**Source: 1810301-01**		Prepared & Analyzed: 10/24/18						
Calcium	4110	11.5	mg/kg dry	1150	2660	127	70-130	0.590	25	
Magnesium	1940	5.73	"	1150	637	113	70-130	2.40	25	
Sodium	1390	5.73	"	1150	86.3	114	70-130	0.868	25	
Batch 1811120 - General Preparation										
Blank (1811120-BLK1)				Prepared & Analyzed: 11/08/18						
Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811120 - General Preparation										
LCS (1811120-BS1)				Prepared & Analyzed: 11/08/18						
Calcium	555	10.0	mg/kg wet	500		111	70-130			
Magnesium	543	5.00	"	500		109	70-130			
Sodium	548	5.00	"	500		110	70-130			
Duplicate (1811120-DUP1)		**Source: 1811082-01**		Prepared & Analyzed: 11/08/18						
Calcium	1190	10.7	mg/kg dry		1260			5.30	20	
Magnesium	683	5.35	"		685			0.311	20	
Sodium	68.8	5.35	"		64.6			6.31	20	
Matrix Spike (1811120-MS1)		**Source: 1811082-01**		Prepared & Analyzed: 11/08/18						
Calcium	1660	10.7	mg/kg dry	535	1260	74.9	70-130			
Magnesium	1240	5.35	"	535	685	104	70-130			
Sodium	649	5.35	"	535	64.6	109	70-130			
Matrix Spike Dup (1811120-MSD1)		**Source: 1811082-01**		Prepared & Analyzed: 11/08/18						
Calcium	1650	10.7	mg/kg dry	535	1260	74.2	70-130	0.236	25	
Magnesium	1170	5.35	"	535	685	90.0	70-130	6.31	25	
Sodium	661	5.35	"	535	64.6	111	70-130	1.86	25	
Batch 1811141 - General Preparation										
Blank (1811141-BLK1)				Prepared & Analyzed: 11/09/18						
Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							
LCS (1811141-BS1)				Prepared & Analyzed: 11/09/18						
Calcium	541	10.0	mg/kg wet	500		108	70-130			
Magnesium	543	5.00	"	500		109	70-130			
Sodium	541	5.00	"	500		108	70-130			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811141 - General Preparation										
Duplicate (1811141-DUP1)		**Source: 1809418-02**		Prepared & Analyzed: 11/09/18						
Calcium	1120	10.7	mg/kg dry		1060			5.59	20	
Magnesium	715	5.36	"		711			0.514	20	
Sodium	2400	5.36	"		2300			4.05	20	
Matrix Spike (1811141-MS1)		**Source: 1809418-02**		Prepared & Analyzed: 11/09/18						
Calcium	1480	10.7	mg/kg dry	536	1060	78.5	70-130			
Magnesium	1250	5.36	"	536	711	101	70-130			
Sodium	2830	5.36	"	536	2300	98.9	70-130			
Matrix Spike Dup (1811141-MSD1)		**Source: 1809418-02**		Prepared & Analyzed: 11/09/18						
Calcium	1460	10.7	mg/kg dry	536	1060	74.6	70-130	1.44	25	
Magnesium	1210	5.36	"	536	711	92.9	70-130	3.54	25	
Sodium	2780	5.36	"	536	2300	89.6	70-130	1.77	25	
Batch 1811153 - General Preparation										
Blank (1811153-BLK1)				Prepared & Analyzed: 11/12/18						
Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							
LCS (1811153-BS1)				Prepared & Analyzed: 11/12/18						
Calcium	558	10.0	mg/kg wet	500		112	70-130			
Magnesium	575	5.00	"	500		115	70-130			
Sodium	564	5.00	"	500		113	70-130			
Duplicate (1811153-DUP1)		**Source: 1809415-02**		Prepared & Analyzed: 11/12/18						
Calcium	2960	10.5	mg/kg dry		3100			4.45	20	
Magnesium	559	5.23	"		600			7.03	20	
Sodium	3460	5.23	"		3640			5.02	20	

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Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811153 - General Preparation										
Matrix Spike (1811153-MS1)		**Source: 1809415-02**		Prepared & Analyzed: 11/12/18						
Calcium	3550	10.5	mg/kg dry	523	3100	87.2	70-130			
Magnesium	1180	5.23	"	523	600	111	70-130			
Sodium	4040	5.23	"	523	3640	77.6	70-130			
Matrix Spike Dup (1811153-MSD1)		**Source: 1809415-02**		Prepared & Analyzed: 11/12/18						
Calcium	3500	10.5	mg/kg dry	523	3100	76.2	70-130	1.64	25	
Magnesium	1150	5.23	"	523	600	106	70-130	2.48	25	
Sodium	4020	5.23	"	523	3640	72.5	70-130	0.665	25	
Batch 1811154 - General Preparation										
Blank (1811154-BLK1)				Prepared & Analyzed: 11/12/18						
Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							
LCS (1811154-BS1)				Prepared & Analyzed: 11/12/18						
Calcium	556	10.0	mg/kg wet	500		111	70-130			
Magnesium	559	5.00	"	500		112	70-130			
Sodium	540	5.00	"	500		108	70-130			
Duplicate (1811154-DUP1)		**Source: 1811111-16**		Prepared & Analyzed: 11/12/18						
Calcium	970	10.8	mg/kg dry		964			0.536	20	
Magnesium	317	5.41	"		303			4.34	20	
Sodium	38.9	5.41	"		32.4			18.2	20	
Matrix Spike (1811154-MS1)		**Source: 1811111-16**		Prepared & Analyzed: 11/12/18						
Calcium	1530	10.8	mg/kg dry	541	964	104	70-130			
Magnesium	904	5.41	"	541	303	111	70-130			
Sodium	606	5.41	"	541	32.4	106	70-130			

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811154 - General Preparation										
Matrix Spike Dup (1811154-MSD1)	**Source: 1811111-16**			Prepared & Analyzed: 11/12/18						
Calcium	1550	10.8	mg/kg dry	541	964	108	70-130	1.62	25	
Magnesium	906	5.41	"	541	303	112	70-130	0.325	25	
Sodium	615	5.41	"	541	32.4	108	70-130	1.64	25	

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810353 - General Preparation										
Duplicate (1810353-DUP1)		**Source: 1810301-01**		Prepared & Analyzed: 10/24/18						
% Solids	87.7		%		87.2			0.572	20	
Batch 1810354 - General Preparation										
LCS (1810354-BS1)				Prepared & Analyzed: 10/24/18						
pH	9.14		pH Units	9.18		99.6	95-105			
Duplicate (1810354-DUP1)		**Source: 1810301-01**		Prepared & Analyzed: 10/24/18						
pH	7.21		pH Units		7.07			1.96	20	
Batch 1811116 - General Preparation										
Duplicate (1811116-DUP1)		**Source: 1811078-01**		Prepared & Analyzed: 11/08/18						
% Solids	85.4		%		86.5			1.25	20	
Batch 1811117 - General Preparation										
LCS (1811117-BS1)				Prepared & Analyzed: 11/08/18						
pH	9.14		pH Units				95-105			
Duplicate (1811117-DUP1)		**Source: 1811082-01**		Prepared & Analyzed: 11/08/18						
pH	7.77		pH Units		7.81			0.513	20	
Batch 1811128 - General Preparation										
Duplicate (1811128-DUP1)		**Source: 1809418-02**		Prepared & Analyzed: 11/09/18						
% Solids	93.2		%		93.3			0.112	20	

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811129 - General Preparation										
LCS (1811129-BS1)				Prepared & Analyzed: 11/09/18						
pH	9.13		pH Units	9.18		99.5	95-105			
Duplicate (1811129-DUP1)		**Source: 1809418-02**		Prepared & Analyzed: 11/09/18						
pH	8.13		pH Units		8.12			0.123	20	
Batch 1811156 - General Preparation										
LCS (1811156-BS1)				Prepared & Analyzed: 11/12/18						
pH	9.11		pH Units	9.18		99.2	95-105			
Duplicate (1811156-DUP1)		**Source: 1809415-02**		Prepared & Analyzed: 11/12/18						
pH	10.3		pH Units		10.3			0.486	20	
Batch 1811161 - General Preparation										
Duplicate (1811161-DUP1)		**Source: 1809415-02**		Prepared: 11/12/18 Analyzed: 11/13/18						
% Solids	95.5		%		95.5			0.0503	20	
Batch 1811176 - General Preparation										
LCS (1811176-BS1)				Prepared & Analyzed: 11/14/18						
pH	9.09		pH Units	9.18		99.0	95-105			
Duplicate (1811176-DUP1)		**Source: 1809418-01**		Prepared & Analyzed: 11/14/18						
pH	7.47		pH Units		7.55			1.07	20	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

Specific Conductance by EPA Method 120.1 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1810355 - General Preparation										
Blank (1810355-BLK1)				Prepared & Analyzed: 10/24/18						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1810355-BS1)				Prepared & Analyzed: 10/24/18						
Specific Conductance (EC)	0.717	0.0100	mmhos/cm	0.750		95.6	90-110			
Duplicate (1810355-DUP1)		**Source: 1810301-01**		Prepared & Analyzed: 10/24/18						
Specific Conductance (EC)	0.526	0.0100	mmhos/cm		0.528			0.380	20	
Batch 1811118 - General Preparation										
Blank (1811118-BLK1)				Prepared & Analyzed: 11/08/18						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1811118-BS1)				Prepared & Analyzed: 11/08/18						
Specific Conductance (EC)	0.748	0.0100	mmhos/cm	0.750		99.8	90-110			
Duplicate (1811118-DUP1)		**Source: 1811082-01**		Prepared & Analyzed: 11/08/18						
Specific Conductance (EC)	0.948	0.0100	mmhos/cm		0.867			8.93	20	
Batch 1811130 - General Preparation										
Blank (1811130-BLK1)				Prepared & Analyzed: 11/09/18						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1811130-BS1)				Prepared & Analyzed: 11/09/18						
Specific Conductance (EC)	0.749	0.0100	mmhos/cm	0.750		99.9	90-110			

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Specific Conductance by EPA Method 120.1 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1811130 - General Preparation										
Duplicate (1811130-DUP1)		**Source: 1809418-02**		Prepared & Analyzed: 11/09/18						
Specific Conductance (EC)	10.2	0.0100	mmhos/cm		10.4			2.00	20	
Batch 1811159 - General Preparation										
Blank (1811159-BLK1)				Prepared & Analyzed: 11/12/18						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1811159-BS1)				Prepared & Analyzed: 11/12/18						
Specific Conductance (EC)	0.741	0.0100	mmhos/cm	0.750		98.7	90-110			
Duplicate (1811159-DUP1)		**Source: 1809415-02**		Prepared & Analyzed: 11/12/18						
Specific Conductance (EC)	5.94	0.0100	mmhos/cm		6.10			2.49	20	
Batch 1811175 - General Preparation										
Blank (1811175-BLK1)				Prepared & Analyzed: 11/14/18						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1811175-BS1)				Prepared & Analyzed: 11/14/18						
Specific Conductance (EC)	0.757	0.0100	mmhos/cm	0.750		101	90-110			
Duplicate (1811175-DUP1)		**Source: 1809418-01**		Prepared & Analyzed: 11/14/18						
Specific Conductance (EC)	4.88	0.0100	mmhos/cm		4.64			4.92	20	

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Tasman Geosciences 6899 Pecos St, Unit C Denver CO, 80221	Project: Noble - Bierig 1-26 Project Number: [none] Project Manager: Brandon Bruns	**Reported:** 02/07/19 07:26

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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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

ORIGINS LABORATORY, INC

November 29, 2018

Tasman Geosciences

Brandon Bruns

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - Noble - Bierig 1-26 **Project Number - [none]**

Attached are your analytical results for Noble - Bierig 1-26 received by Origins Laboratory, Inc. November 28, 2018. This project is associated with Origins project number Y811402-01.

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

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

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

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

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

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS70@8.5'-2	Y811402-01	Soil	November 28, 2018 11:45	11/28/2018 17:00

Origins Laboratory, Inc.

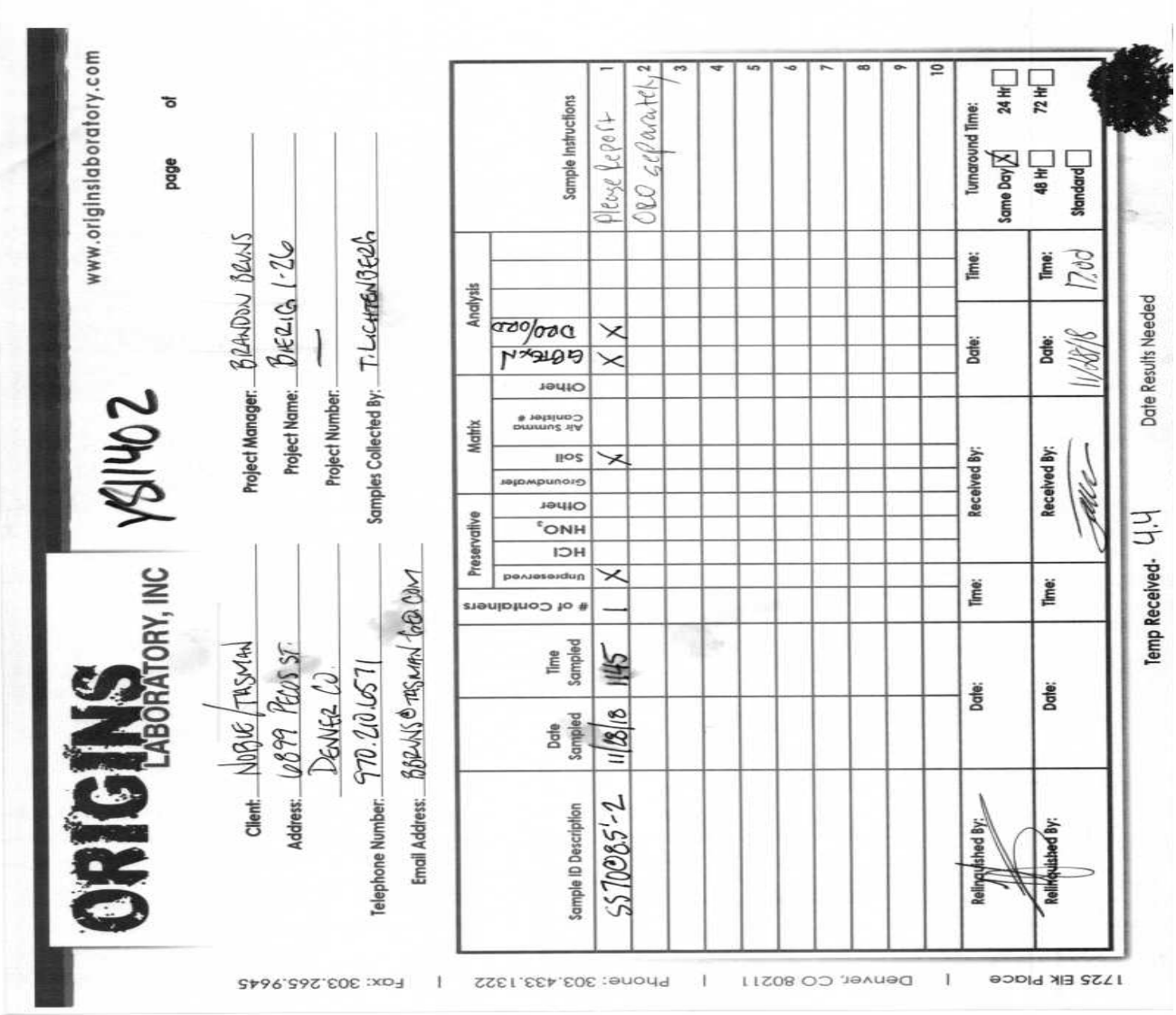
Jen Pellegrini For Noelle Doyle Mathis, President

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.

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26



Origins Laboratory, Inc.

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y611402

Client: Tasman

Client Project ID: Noble - Bierig 1-26

Checklist Completed by: JG

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

Date/time completed: 11/28/2018

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____ (Describe)

Cooler Number/Temperature: 1 / 4.4 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[(1)]?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[(1)]?	✓			
Was adequate sample volume provided[(1)]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[(1)]?		✓		
Is a chain-of-custody (COC) 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 with date and time recorded[(1)]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation and was it checked [(1)]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL. H2SO4) / (pH >10 for samples preserved with NaAsO2+NeOH, ZnAc+NaOH)*		✓		
Additional Comments (if any):				

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

Reviewed by (Project Manager)

11/28/18
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

SS70@8.5'-2
11/28/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y811402-01 (Soil)									
DRO/RRO by EPA8015C									
Diesel (C10-C28)	ND	50.0	mg/kg	1	B8K2803	JTD	11/28/2018	11/28/2018	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U
Surrogate: o-Terphenyl	*97.1 %*		*59-131*			"	"	"	
GBTEX + Napthalene by 8260C									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B8K2802	JTD	11/28/2018	11/28/2018	U
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*96.0 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*95.2 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8K2802 - EPA 5030 (soil)										
Blank (B8K2802-BLK1)					Prepared: 11/28/2018 Analyzed: 11/28/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*95.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*95.5*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8K2802 - EPA 5030 (soil)										
LCS (B8K2802-BS1)					Prepared: 11/28/2018 Analyzed: 11/28/2018					
Benzene	0.107	0.002	mg/kg	0.100		107	70-130			
Toluene	0.095	0.002	"	0.100		94.6	70-130			
Ethylbenzene	0.097	0.002	"	0.100		96.5	70-130			
m,p-Xylene	0.192	0.004	"	0.200		95.8	70-130			
o-Xylene	0.097	0.002	"	0.100		96.7	70-130			
Naphthalene	0.094	0.008	"	0.100		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.12*		"	*0.125*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*94.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*102*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8K2802 - EPA 5030 (soil)										
Matrix Spike (B8K2802-MS1)		**Source: Y811369-01**			Prepared: 11/28/2018 Analyzed: 11/28/2018					
Benzene	0.109	0.002	mg/kg	0.100	ND	109	70-130			
Toluene	0.097	0.002	"	0.100	ND	96.9	70-130			
Ethylbenzene	0.096	0.002	"	0.100	0.0007	95.4	70-130			
m,p-Xylene	0.190	0.004	"	0.200	0.002	94.3	70-130			
o-Xylene	0.096	0.002	"	0.100	0.0009	95.3	70-130			
Naphthalene	0.079	0.008	"	0.100	0.015	63.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.14*		*"*	*0.125*		*109*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*94.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		*"*	*0.125*		*100*	*70-130*			

Origins Laboratory, Inc.

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Tasman Geosciences
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Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8K2802 - EPA 5030 (soil)										
Matrix Spike Dup (B8K2802-MSD1)		**Source: Y811369-01**			Prepared: 11/28/2018 Analyzed: 11/28/2018					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	70-130	6.38	20	
Toluene	0.090	0.002	"	0.100	ND	90.5	70-130	6.81	20	
Ethylbenzene	0.091	0.002	"	0.100	0.0007	90.3	70-130	5.38	20	
m,p-Xylene	0.180	0.004	"	0.200	0.002	89.3	70-130	5.41	20	
o-Xylene	0.091	0.002	"	0.100	0.0009	90.1	70-130	5.54	20	
Naphthalene	0.081	0.008	"	0.100	0.015	66.6	70-130	3.48	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.13*		*"*	*0.125*		*107*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*94.0*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		*"*	*0.125*		*101*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8K2803 - EPA 3580										
Blank (B8K2803-BLK1)					Prepared: 11/28/2018 Analyzed: 11/28/2018					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	*45*		*"*	*50.0*		*89.7*	*59-131*			
LCS (B8K2803-BS1)					Prepared: 11/28/2018 Analyzed: 11/28/2018					
Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	64-121			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	58-124			
Surrogate: o-Terphenyl	*54*		*"*	*50.0*		*109*	*59-131*			
Matrix Spike (B8K2803-MS1)		**Source: Y811381-01**			Prepared: 11/28/2018 Analyzed: 11/28/2018					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	53-125			
Residual Range Organics (C28-C40)	1080	200	"	1000	9.36	107	47-133			
Surrogate: o-Terphenyl	*52*		*"*	*50.0*		*104*	*59-131*			
Matrix Spike Dup (B8K2803-MSD1)		**Source: Y811381-01**			Prepared: 11/28/2018 Analyzed: 11/28/2018					
Diesel (C10-C28)	1200	50.0	mg/kg	1000	ND	120	53-125	8.76	20	
Residual Range Organics (C28-C40)	1140	200	"	1000	9.36	113	47-133	5.24	20	
Surrogate: o-Terphenyl	*63*		*"*	*50.0*		*127*	*59-131*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: Noble - Bierig 1-26

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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