March 19, 2019

Mr. Jacob Evans
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80631

Subject: **First Quarter 2019 Site Monitoring and Remediation Report**
Plugged and Abandoned FRI 2-18 Tank Battery and Wellhead Location
API # 05-001-08259
Remediation Project # 8440
Adams County, Colorado

Dear Mr. Evans:

Please find the enclosed copy of the above-referenced First Quarter 2019 Site Monitoring and Remediation Report for the Plugged and Abandoned FRI 2-18 Tank Battery and Wellhead Location in Adams County, Colorado. The enclosed report describes groundwater sampling and remediation system operation and maintenance (O&M) activities conducted during the First quarter 2019, in accordance with the previously submitted Form 27 (COGCC document # 2148980). Please contact me at (720) 431-1190 if you require additional information.

Tasman appreciates the opportunity to provide this service.

Sincerely,
Tasman Geosciences, Inc.

Brandon Bruns
Project Manager

Enclosure: First Quarter 2019 Site Monitoring & Remediation Report

PLUGGED & ABANDONED FRI 2-18
TANK BATTERY & WELLHEAD LOCATION

FIRST QUARTER 2019 SITE MONITORING AND REMEDIATION REPORT

May 15, 2019

PREPARED ON BEHALF OF

Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80631

PREPARED BY

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1.0 INTRODUCTION

This Site Monitoring and Remediation Report (Report) presents the results of groundwater sampling and light non-aqueous phase liquid (LNAPL) recovery activities performed at the Plugged and Abandoned FRI 2-18 Tank Battery and Wellhead Location (Site). Field activities detailed in this report were performed on behalf of Noble Energy, Inc. (Noble), pursuant to Colorado Oil and Gas Conservation Commission (COGCC) guidance.

Field activities described in this Report were conducted by Tasman Geosciences, Inc. (Tasman) to further evaluate groundwater flow characteristics and groundwater quality at the Site. The data collected were used to maintain and optimize remediation system operations, develop the analytical summary tables, groundwater and LNAPL elevation maps, and chemical concentration maps presented herein.

1.1 Site Background

The Site is located in Section 18, Township 1 South, Range 67 West, of the 6th Principal Meridian, on 144th Avenue, in the town of Thornton in Adams County, Colorado (see Figure 1). The Site surrounds the former FRI 2-18 wellhead and tank battery and is approximately 950 feet (ft.) north of 144th Avenue and 1,200 ft. west of Holly Street. The approximate coordinates of the Site are 39.960732°, -104.926776°.

On November 4, 2013 Noble was informed of the suspected release. Subsequently, Noble filed a Form 19 Spill/Release Report (Form 19) with the COGCC for the incident. On November 13, 2013 the Form 19 was received by the COGCC and the incident was designated Spill/Release Tracking Number 2147193 and Remediation Number 8440.

Based on procedures established via the Form 19 process, Noble conducted subsurface Site assessment activities from October 2013 through April 2014 in order to delineate the extent of petroleum hydrocarbon impacts at the Site. On May 9, 2014 Noble submitted a Form 27 Site Assessment Report (Document Number 2148980) for COGCC review. Subsequently, COGCC approved the Form 27, closed out Spill/Release Tracking Number 2147193, and with continued remediation, monitoring and reporting for the project under Remediation Number 8440.

A total of 49 monitoring wells were installed at the Site throughout the assessment phase. The locations of these monitoring wells are presented in Figure 2. Laboratory analytical data for soil samples collected during the monitoring well installation are reported in the Site Assessment Report and 4Q2017 Remediation Progress Report (Document Number 401524920) submitted on January 24, 2018. Table 1 and total petroleum hydrocarbon (TPH) concentrations are reported in Figure 5 of those documents. In addition to groundwater and soil assessment activities, Noble initiated interim corrective measures to reduce the presence of LNAPL in the central region of the Site.

1.2 Site Topography, Geology, and Hydrogeology

The Site is positioned at approximately 5,246 ft. above mean sea level (AMSL). Surface topography slopes gradually to the north across the Site with minor depressions evident across the ground surface. Regional topography slopes to the north and northwest from a high point approximately 2,000 ft. south of 144th Avenue. Surface drainage features are evident to the north and east of the Site and follow a general northeast – southwest trend.

Site assessment borings indicate that the subsurface geology immediately beneath the Site is composed of unconsolidated alluvial sediments and evaporite deposits overlying consolidated sedimentary rock. The upper unconsolidated unit is observed from ground surface to approximately 35 ft. below ground surface (bgs) and consists of interbedded clays (CL), fine, medium, and coarse grain sands (SC, SP, SW), and zones of accreted caliche. The alluvial and precipitated sediments are underlain by interbedded sandstone and claystone encountered at approximately 35 ft. bgs. The depth of the competent bedrock surface observed in the majority of the borings varies from approximately 25 to 40 ft. bgs across the Site and is generally characterized by a poorly cemented fractured sandstone layer approximately 10 to 15 ft. thick underlain by claystone. Claystone dominates the consolidated interval in the southeastern and eastern portions of the Site, while sandstone is the predominant consolidated lithology noted across the central and western regions. Thickening of the sandstone layer appears to follow a north - south trend across the area of concern. Two wells, SB06 and SB17, did not encounter bedrock. Boring logs for monitoring wells SB01 through SB42 are included in Attachments A and B of the Form 27 Site Assessment Report (Document Number 2148980) submitted to the COGCC on May 9, 2014.

The groundwater table is generally encountered between 40 and 50 ft. bgs within the consolidated sedimentary rock units. Groundwater flow appears preferential to the poorly cemented sandstone layer and appears to be preferentially bound to the central and western portions of the Site. This preferential flow and accumulation is further evidenced by dry and slow re-charging wells in the southeast and eastern portions of the Site (predominated by the lower permeability claystone lithology). Well yields across the majority of the Site are relatively low, consistent with a consolidated bedrock aquifer; however, higher flow rates have been observed, suggesting secondary flow pathways and geologic structures may be contributing factors in groundwater transport.

2.0 GROUNDWATER SAMPLING ACTIVITIES

This section summarizes the groundwater sampling activities that were performed, and the protocols followed during groundwater monitoring activities conducted by Tasman during the first quarter 2019. Sampling activities included measurement of groundwater and LNAPL depths, measurement of groundwater quality parameters, and collection of groundwater samples from Site monitoring wells.

2.1 Groundwater Sample Locations

Throughout the Site assessment, monitoring wells SB16, SB22, SB24, SB25, SB27, and SB28 have failed to produce sufficient water for well development or sampling activities. Review of the boring logs shows that construction of these wells was either too shallow or completed in an area of low permeability. These wells were abandoned in June 2015 following review of all previous Site field and laboratory analytical data.

Monitoring well SB20R was abandoned in June 2015, following review of all previous Site field and laboratory analytical data. In prior sampling events, SB20R was not sampled due to the immediate proximity of SB20. Monitoring wells SB01 and SB02 were consistently found to contain groundwater levels above the perforated interval of the well casing. These wells were abandoned in June 2015, following review of all previous Site field and laboratory analytical data.

Monitoring well SB16 has failed to produce sufficient water to sample since its installation. In January 2014 monitoring well SB16 was abandoned and monitoring well SB16R was drilled as a replacement. However, the casing of SB16R was damaged and the well could not be gauged or sampled. In April 2017 monitoring well SB16R was abandoned and monitoring well SB16R2 was installed. Monitoring well SB23 also failed to produce sufficient water for sampling and was abandoned in April 2017. Monitoring well SB23R was drilled as a replacement in April 2017. The COGCC approved removal of periphery wells (SB18, SB24R, SB26, SB29, SB33, SB34, SB35, SB40, SB41, and SB42) from the monitoring network on April 4, 2017.

2.2 Groundwater and LNAPL Gauging

Groundwater levels are measured (i.e. gauged) in order to evaluate hydraulic characteristics and to provide information regarding seasonal and annual fluctuations in groundwater elevations at the Site. Groundwater and LNAPL levels were measured on the north side of the well casing to the nearest 0.01-foot using a float driven oil-water interface probe (IP). Groundwater and LNAPL level data were subsequently converted to elevations (ft. AMSL) by subtracting the measured depth from the well's top-of-casing (TOC) elevation survey datum. Groundwater elevations for wells exhibiting detectable LNAPL levels were corrected for the effects of LNAPL depression of the potentiometric surface. These groundwater elevations were corrected using the following formula:

(Top of Casing Elevation - Measured Depth to Water)
+ (LNAPL Thickness in Well x LNAPL Relative Density)
= Corrected Groundwater Elevation

An LNAPL relative density of 0.75 was used, based on petrophysical quantitation conducted during the initial Site assessment.

Site-wide groundwater monitoring and associated events were conducted between February 22 and 25, 2019. The following sections discuss the field and laboratory analytical procedures followed during this event.

- On February 15, 2019, the Site remediation system (System) was shut off to allow Site subsurface conditions to equilibrate prior to conducting the groundwater sampling event.

- On February 18, 2019, all product recovery pumps were removed from recovery wells to allow for LNAPL gauging to be completed in the product recovery wells during the groundwater sampling event.

- On February 22, 2019, a Site-wide fluid level gauging event was conducted. Groundwater and LNAPL measurements were collected from all Site monitoring and product recovery wells. Monitoring wells SB24R and SB42 were unable to be gauged due to housing development construction activities adjacent to the Site.

- On February 22, 2019, HydraSleeve groundwater sampling devices were deployed in all Site monitoring wells exhibiting the required conditions described in Section 2.3. Wells receiving HydraSleeves included:

  - SB03
  - SB04
  - SB06
  - SB07
  - SB08
  - SB09
  - SB10
  - SB11
  - SB12
  - SB13
  - SB14
  - SB15
  - SB17
  - SB19
  - SB20
  - SB22R
  - SB25R
  - SB27R
  - SB28R
  - SB36
  - SB38
  - SB39

- On February 25, 2019, the HydraSleeves were retrieved from the monitoring wells listed above and groundwater samples were collected and submitted for laboratory analysis. At the same time, field groundwater quality parameters were gauged in-situ at the well locations listed above except SB19 and SB28R. Monitoring Wells SB19 and SB28R contained an obstruction that allowed a HydraSleeve past, however it blocked the deployment of the In-Situ Smart Troll probe.

Groundwater quality measurements were collected in the field following groundwater sample collection using a Smart Troll multi-parameter instrument with a 100 ft. tethered probe to allow for in-situ measurements. Field measurements for temperature, electrical conductivity (EC), pH, oxidation reduction potential (ORP), and dissolved oxygen (DO) were measured in-situ at monitoring wells with sufficient groundwater column. These measurements were not collected from monitoring locations exhibiting detectable levels of LNAPL.

2.3 Groundwater Sample Collection

Prior to collecting groundwater laboratory analytical samples, groundwater and LNAPL levels were measured at each of the Site monitoring wells, as previously described. The presence of LNAPL was evaluated and wells exhibiting detectable levels of LNAPL were removed from the laboratory analytical sample collection list.

Groundwater monitoring wells were sampled using individual, disposable, HydraSleeve sample collection devices. Evaluation of the water column height within the well was performed prior to sampler placement in order to maintain sample consistency from well to well and between subsequent sample collection events. HydraSleeves were deployed in a manner limiting sample collection to the top four feet of the water column by restricting the length of the HydraSleeve retrieval tether to no more than four feet longer than the measured depth to water. The procedural basis for how groundwater samples were collected using Hydrasleeve sample collection devices is provided below:

- Samples collected from monitoring wells with a water column height greater than or equal to seven ft. were sampled using a standard 2-inch HydraSleeve (2.5 inches [W] x 30 inches [L]) with five ounce (oz.) (2.5 inches [L]) bottom weights attached via a 2-inch stainless steel clip.

- Samples collected from monitoring wells with a water column height less than seven ft. and greater than two ft. were sampled using a standard 2-inch HydraSleeve (2.5 inches [W] x 30 inches [L]) with five oz. (2.5 inches [L]) bottom weights attached via a 2-inch stainless steel clip. Due to the reduced water column height, HydraSleeves were deployed with a 16 oz. top weight, intended to keep the valve inlet positioned within four ft. of the phreatic surface.

- Monitoring wells with a water column height less than 2 ft. were not sampled as per the Site standard operating procedures due to insufficient sample volume.

Retrieval of the HydraSleeves and collection of the laboratory samples was performed no earlier than 48 hours and no later than 96 hours subsequent to HydraSleeve deployment. Clean sample containers (40-milliliter [ml] volatile organic analysis [VOA] vials) supplied by the analytical laboratory were used to contain liquid for subsequent analyses. VOA vials were overfilled and capped to reduce the potential for any headspace and to prevent the loss of volatile analytes. Sample bottles were then labeled with corresponding date, time and well identification, and placed in an ice-filled cooler and maintained at approximately 4 degrees Celsius (^{o}C) for transportation. The groundwater samples were packed and delivered for analysis under chain-of-custody procedures to the contract laboratory.

Groundwater samples were submitted to Summit Scientific Laboratory in Golden, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX) using United States Environmental Protection Agency (USEPA) Method 8260B.

Groundwater sample quality assurance/quality control (QA/QC) procedures were performed via a two-step process. Laboratory QA/QC was performed in accordance with the laboratory's standard internal QA/QC program. Following receipt of laboratory analytical data reports, Tasman performed an internal QA/QC evaluation.

3.0 GROUNDWATER SAMPLING RESULTS

This section presents the results of the first quarter 2019 groundwater sampling activities described above.

3.1 Fluid Level Measurements

Fluid elevation data generated from the Site-wide groundwater and LNAPL gauging event conducted on February 22, 2019 was processed and converted to piezometric elevation in ft. AMSL. The data collected from this event were then used for Site hydrogeologic evaluation purposes. This evaluation was particularly focused on delineation of the LNAPL plume present across the central region of the Site as well as the flow characteristics of groundwater and dissolved phase contaminant migration. Groundwater elevations and LNAPL thicknesses are presented in Table 1 and LNAPL thicknesses are illustrated in Figure 3. Figure 3 also illustrates LNAPL thickness across the Site for the previous two quarters.

LNAPL was detected on February 22, 2019 in seven Site monitoring wells (SB05, SB16R2, SB21, SB23R, SB30, SB31 and SB37). Product thickness in these wells ranged from 0.20 ft. at SB21 to 3.66 ft. at SB30. LNAPL was also detected in 14 product recovery wells (PR04, PR06, PR08 through PR16, PR24, PR25, and PR26), at thicknesses ranging from 0.07 feet in PR13 to 5.48 feet in PR16. LNAPL thickness measured during the first quarter 2019 sampling event across the Site is illustrated in the bottom third of Figure 3.

During the February 22, 2019 gauging event, groundwater elevations ranged from a low of 5,242.84 ft. AMSL in PR26 to a high of 5,245.65 ft. AMSL in SB19. Hydraulic analysis of the groundwater elevation data generated for the Site was used to create a groundwater potentiometric surface contour map. These contours show hydraulic gradient components flowing to the southwest, west, and south. The average hydraulic gradient across the Site was calculated at approximately 0.02 feet per foot between PR26 and SB19. Groundwater potentiometric surface contours are illustrated in Figure 4. Monitoring wells marked as abandoned on Figure 2 as well as those containing less than 0.5 ft. of groundwater column were not used for contouring purposes.

3.2 Groundwater Quality Parameter Measurements

Field groundwater quality parameters (temperature, EC, pH, ORP, and DO) were measured in-situ at the Site on February 25, 2019 following groundwater sample collection. A summary of field groundwater quality parameter measurements collected by Tasman is presented below and in Table 2:

- Groundwater temperature measurements at the Site ranged from 10.88 degrees Celsius (°C) at SB04 to 13.03°C at SB08, with an average temperature of 11.89°C.

- Groundwater EC measurements at the Site ranged from 1.78 millisiemens per centimeter (mS/cm) at SB25R to 6.15 mS/cm at SB10, with an average EC of 3.68 mS/cm.

- Groundwater pH measurements at the Site ranged from 7.55 at SB10 to 8.12 at SB12, with an average pH of 7.78.

- Groundwater ORP measurements at the Site ranged from -216.70 millivolts (mV) at SB10 to 190.40 mV at SB03, with an average ORP of -57.66 mV.

- Groundwater DO measurements at the Site ranged from 0.00 milligrams per liter (mg/L) at SB08 to 2.31 mg/L at SB39, with an average DO of 0.66 mg/L.

3.3 Laboratory Analytical Results

Groundwater laboratory analytical data is presented in Table 3. The laboratory analytical report is provided in Attachment A. A summary of the groundwater laboratory analytical data collected by Tasman is presented below:

- Benzene was detected above the COGCC Table 910-1 standard of 5 micrograms per liter (µg/L) in five of the 22 Site monitoring wells sampled (SB04, SB08, SB09, SB10, and SB15) in addition to the DUP sample. Benzene concentrations associated with these five monitoring wells ranged from 13 µg/L in SB15 to 6,600 µg/L in SB09. Benzene analytical results and isoconcentration contours indicating the area where benzene concentrations exceed the COGCC regulatory standard are illustrated in Figure 5.

- Toluene was detected above the COGCC Table 910-1 standard of 560 µg/L in one of the 22 Site monitoring wells sampled in addition to the DUP sample. The toluene concentration associated with SB09 was 15,000 µg/L.

- Ethylbenzene was not detected above the COGCC Table 910-1 standard of 700 µg/L in any of the 22 Site monitoring wells sampled.

- Total xylenes were detected above the COGCC Table 910-1 standard of 1,400 µg/L in two of the 22 Site monitoring wells sampled in addition to the DUP sample. The total xylenes concentration associated with these two wells ranged from 7,700 µg/L in SB09 to 2,400 µg/L in SB08.

4.0 INTERIM REMEDIAL ACTION

This section summarizes remediation activities conducted at the Site from November 2013 to May 2015. Concurrently, a full-scale remediation system was designed and constructed. Interim remedial measures were suspended between June 2015 and February 2016 due to construction activities and final completion of the full-scale system. Construction of the full-scale system was completed on February 22, 2016.

4.1 Interim LNAPL Recovery

Four Clean Earth Technology Magnum Spill Buster (Spill Buster[s]) automated LNAPL pumping systems were installed at the Site between November 2013 and May 2015. The pumps were specifically designed to remove LNAPL from the water table.

Due to the lack of electrical service at the Site, Spill Buster pumps were operated through the use of solar power. Recovered LNAPL was pumped into 250-gallon polyethylene tanks dedicated to each pumping unit. Once full, LNAPL holding tanks were emptied using a vacuum truck and the fluid was transported to a licensed E&P waste facility for disposal.

Spill Buster systems were removed from the Site in May of 2015. A total of approximately 1,960 gallons of LNAPL were recovered between November 2013 and May 2015.

5.0 REMEDIATION SYSTEM OPERATION

The System is capable of automated LNAPL recovery using a pneumatic pumping system, soil vapor extraction (SVE), and total fluids recovery (TFE). The System was designed to operate in a phased remediation sequence starting with LNAPL recovery, transitioning to SVE, and finally TFE. The LNAPL recovery portion of the System is currently in operation and the SVE was brought on line during the first quarter of 2018. The TFE portion of the System was brought on line in the fourth quarter of 2018.

5.1 LNAPL and Spill Buster Recovery

The LNAPL recovery component of the System was put into 24-hour operation on February 29, 2016. The LNAPL recovery system consists of up to 15 pneumatic Genie pumps coupled with SPG4 LNAPL skimmers manufactured by QED Environmental Systems. In addition, two Spill Busters have been periodically operated at wells SB05, SB09, SB21, SB30, and SB31 in conjunction with the full-scale LNAPL recovery System described above. The purpose of Spill Buster operation was to augment LNAPL recovery outside the core product recovery (PR) well network. Operation of the Spill Buster units was ceased on February 20, 2019 due to the low LNAPL recovery rates observed from the target LNAPL recovery wells. Site monitoring wells will continue to be monitored for LNAPL thickness as a part of routine field activities. Spill Busters and/or passive recovery bailers may be re-deployed if necessary, based on LNAPL thickness data.

From December 1, 2018 through February 28, 2019 8 Genie pumps were in operation at PR wells 03, 05, 07, 12, 18, 19, 25 and 26 which resulted in recovery of 4,879.9 gallons of impacted groundwater and 286.8 gallons of LNAPL. LNAPL recovery efforts at the Site have recovered 18,741 gallons of impacted groundwater and 6,491 gallons of LNAPL since becoming operational in 2013 (Figure 6). The table below summarizes annual fluid recovery volume for each year since recovery efforts were initiated.

Year	Total Fluids Recovered by Year (gallons)
2013 & 2014	1,703
2015*	257
2016	6,111
2017	3,552
2018	8,278
2019 (through 2/28/19)	4,324

*Full-Scale Remediation System Constructed

LNAPL thickness has decreased significantly in ten of the PR wells since 2013. As summarized below, LNAPL thickness increases have been minimal as measured in the PR wells. LNAPL thickness trends for the PR wells associated with operating the System at the site include:

LNAPL Thickness Trend	No. of Wells	Average Change in LNAPL Thickness from 2014 (feet)
Decrease	10	4.25
Increase	9	1.03
No change in LNAPL thickness	7	Non-Detect*

*Non- Detect means no measurable LNAPL is present in the well.

The table indicates that LNAPL thickness increased in nine of PR wells however, the average thickness increase was estimated to be approximately 1 foot. In correlation, LNAPL thickness decreased on average by over 4 feet in ten PR wells across the Site.

5.2 TFE Operations and Recovery

The TFE recovery component of the System was put into 24-hour operation on November 16, 2018. The TFE recovery system currently consists of 2 pneumatic AP-4 pumps (TFE pump[s]) manufactured by QED Environmental Systems. During this reporting period, TFE pumps were installed into wells PR15 and PR17. From December 1, 2018 to February 28, 2019 the TFE flow rate averaged 73.7 gallons per day (0.05 gallons per minute) and generated a total of 4,874 gallons. Average gallons per day recovered through February 28, 2019 is illustrated by Figure 7. TFE recovery efforts at the Site have produced 5,484 gallons of impacted groundwater since becoming operational in 2018.

Two down-hole In Situ, Inc TROLL 700 data loggers were installed in wells PR16 and SB30 to monitor changes in groundwater elevation as a part of the TFE pump operations. The Trolls were set approximately one foot above the total depth of the wells. Apparent fluid level drawdown in these two wells remained relatively constant throughout this period as illustrated by Figures 8 and 9.

The effluent water from the TFE wells is routinely sampled and submitted to Summit for analysis of BTEX using USEPA Method 8260B. Samples were collected on a weekly basis from December

1, 2018 through February 1, 2019. After the February 1, 2019 sample was collected, the sampling frequency was amended to monthly. During this time period, benzene concentrations ranged from 1,700 to 5,500 µg/L. Laboratory analytical reports for effluent TFE recovery samples are included in Attachment A. Based on laboratory analytical data, 822.76 pounds (lbs) of dissolved BTEX mass has been removed by the TFE system since startup.

5.3 SVE Operations

The SVE system was made operational on March 21, 2018. Operational parameters, subsurface response, VOC concentrations, and emissions were monitored during three operational configurations. Operational configurations were pre-determined based on several factors including but not limited to proximity to the core source area, presence of LNAPL in the recovery wells, VOC recovery, and potential emission levels. From December 1, 2018 to February 28, 2019 active SVE wells included PR01 – PR26. In January 2019, PR wells PR02, PR04, PR06, PR08, PR10, and PR12 – PR26 were active. In December 2018 and February 2019, PR wells PR01, PR03, PR05, PR07, PR09, PR11 and PR13 – PR26 were operated. During this operational period, the SVE system operated under an average vacuum of -59.2 inches of water column (inWC) and at a corresponding flow rate of 150.8 cubic feet per minute (cfm). A vacuum survey was conducted on February 15, 2019 to measure induced vacuum and the radius of influence (ROI) achieved from the SVE system. The largest ROI recorded was 32.45 linear feet from PR20 to SB22R with an induced vacuum of -3.2 inWC at well SB22R. There were five other monitoring wells (SB05, SB09, SB16R, SB30, SB37) that exhibited vacuum influence with an ROI distance ranging between 5.31 to 20.92 linear feet and induced vacuum ranging between -2.6 to -8.0 inWC.

Weekly vapor samples were collected December 1, 2018 through February 15, 2019 to monitor VOC emissions and adjust system operations if needed. SVE vapor samples were submitted to Pace National Laboratory in Mt. Juliet, Tennessee and analyzed volatile organic compounds using EPA Method M18 modified. Emission concentrations ranged from 318,000 micrograms per cubic meter (µg/m^3) to 1,090,000 µg/m^3 total volatile petroleum hydrocarbons (TVPH). Laboratory analytical reports for System emissions are included in Attachment A. The SVE system emitted 734.71 lbs of total volatile organic compounds (VOCs) during this operating period (Table 4). The SVE System has removed an estimated 1,785.17 lbs of VOC mass since startup in 2018. Table 4 summarizes SVE operations for 2019 as well as total emissions for 2018 and 2019. Figure 10 illustrates the cumulative SVE vapor phase mass removal since startup.

The SVE System air emissions are regulated under CDPHE APEN No. 19AD0037.XP (AIRS ID 777/4495/001). Tasman continues to operate the SVE portion of the System in 2019 and collect air emission samples that are used to evaluate VOC emissions and ensure the emissions volumes are staying within the APEN permitted threshold. As stated by the APEN, no emission monitoring is required for the operation of the generator.

5.4 Remediation System Operations Conclusions

Trends and conclusions that have been derived from recent operational data collected from the System include:

- Operation of the Spill Busters and the System have been successful at diminishing LNAPL thickness and controlling migration at the Site.

- The LNAPL System has been successful at stabilizing the overall area where LNAPL has been encountered at the Site, especially in the central portion where historically, LNAPL thicknesses have been the greatest.

- The TFE system has enhanced dissolved phase mass removal from the primary source area. TFE appears to yield a negative hydraulic gradient toward the recovery well as evidenced by the drawdown data provided herein.

- The SVE System continues to remove vapor phase mass from the subsurface. SVE will continue to be operated in a pulsed manner periodically changing application of vacuum to new well configurations.

6.0 UPCOMING SITE ACTIVITIES

Anticipated upcoming Site activities for the first quarter 2019 include:

- The SVE system operational configuration will continue to be modified to address different portions of the release area. Operational data, subsurface response, and VOC concentrations will continue to be closely monitored to ensure System operations are optimized;

- With LNAPL thickness and recovery rates stabilizing at the Site, the fluid recovery effort will be further enhanced by initiating the operation of two additional TFE pumps on March 11, 2019;

- LNAPL recovery portion of the System will continue to operate in conjunction with TFE. Periodic well re-development and monthly maintenance will continue to be conducted to optimize LNAPL recovery;

- Complete the second quarter 2019 groundwater sampling event in May.

TABLES

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR01	04/21/14	45.55	42.20	3.35	50.34	5244.87	5201.83
PR01	05/16/14	43.07	42.74	0.33	50.34	5244.87	5202.04
PR01	08/27/14	42.92	42.20	0.72	50.34	5244.87	5202.49
PR01	11/18/14	42.50	42.32	0.18	50.34	5244.87	5202.50
PR01	02/11/15	43.57	42.54	1.03	50.34	5244.87	5202.07
PR01	05/18/15	43.20	42.39	0.81	50.34	5244.87	5202.27
PR01	08/25/15	39.15	37.57	1.58	49.20	5244.87	5206.91
PR01	11/09/15	NM	NM	NM	NM	5244.87	NM
PR01	02/19/16	NM	NM	NM	NM	5244.87	NM
PR01	05/20/16	NM	NM	NM	NM	5244.87	NM
PR01	08/12/16	36.28	36.19	0.09	49.40	5244.87	5208.66
PR01	11/18/16	36.68	36.40	0.28	NM	5244.87	5208.40
PR01	02/13/17	36.40	36.13	0.27	NM	5244.87	5208.67
PR01	05/09/17	36.61	36.31	0.30	NM	5241.55	5205.17
PR01	08/22/17	35.36	35.17	0.19	NM	5241.55	5206.33
PR01	11/17/17	36.00	35.80	0.20	NM	5241.55	5205.70
PR01	02/23/18	36.36	35.95	0.41	NM	5241.55	5205.50
PR01	05/18/18	36.14	35.75	0.39	NM	5241.55	5205.70
PR01	08/24/18	36.12	35.71	0.41	46.97	5241.55	5205.74
PR01	11/6/2018	35.83	ND	0.00	46.97	5241.55	5205.72
PR01	02/22/19	35.83	ND	0.00	NM	5241.55	5205.72
PR02	04/21/14	45.25	41.40	3.85	51.10	5244.36	5201.99
PR02	05/16/14	43.48	43.42	0.06	51.10	5244.36	5200.92
PR02	08/27/14	43.63	40.71	2.92	51.10	5244.36	5202.92
PR02	11/18/14	44.26	40.39	3.87	51.10	5244.36	5203.00
PR02	02/11/15	43.39	41.78	1.61	51.10	5244.36	5202.17
PR02	05/18/15	43.08	41.45	1.63	51.10	5245.36	5203.50
PR02	08/25/15	39.00	37.33	1.67	49.69	5245.36	5207.61
PR02	11/09/15	NM	NM	NM	NM	5245.36	NM
PR02	02/19/16	NM	NM	NM	NM	5245.36	NM
PR02	05/20/16	NM	NM	NM	NM	5245.36	NM
PR02	08/12/16	36.41	36.30	0.11	46.98	5245.36	5209.03
PR02	11/18/16	36.36	36.35	0.01	NM	5245.36	5209.01
PR02	02/13/17	36.65	36.00	0.65	NM	5245.36	5209.20
PR02	05/09/17	36.23	ND	0.00	NM	5241.46	5205.23
PR02	08/22/17	35.03	35.00	0.03	NM	5241.46	5206.45
PR02	11/17/17	36.21	35.47	0.74	NM	5241.46	5205.81
PR02	02/23/18	35.86	ND	0.00	NM	5241.46	5205.60
PR02	05/18/18	36.06	35.54	0.52	NM	5241.46	5205.79
PR02	08/24/18	35.66	35.64	0.02	47.48	5241.46	5205.82
PR02	11/06/18	35.62	35.60	0.02	47.46	5241.46	5205.86
PR02	02/22/19	35.57	ND	0.00	NM	5241.46	5205.89

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR03	11/18/14	47.86	ND	0.00	62.33	Not Surveyed	
PR03	02/11/15	48.30	ND	0.00	62.33	Not Surveyed	
PR03	05/18/15	48.19	ND	0.00	62.33	Not Surveyed	
PR03	08/25/15	44.38	ND	0.00	59.35	Not Surveyed	
PR03	11/20/15	43.82	ND	0.00	59.35	Not Surveyed	
PR03	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR03	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR03	08/12/16	44.18	43.82	0.36	59.38	Not Surveyed	
PR03	11/18/16	42.02	41.52	0.50	NM	Not Surveyed	
PR03	02/13/17	41.94	ND	0.00	NM	Not Surveyed	
PR03	05/09/17	41.56	41.52	0.04	NM	5243.64	5202.11
PR03	08/22/17	41.33	41.11	0.22	NM	5243.64	5202.48
PR03	11/17/17	40.83	40.65	0.18	NM	5243.64	5202.95
PR03	02/23/18	41.05	40.76	0.29	NM	5243.64	5202.81
PR03	05/18/18	40.97	40.57	0.40	NM	5243.64	5202.97
PR03	08/24/18	40.80	40.45	0.35	57.16	5243.64	5203.10
PR03	11/06/18	40.81	40.31	0.50	57.17	5243.64	5203.21
PR03	02/22/19	41.24	ND	0.00	NM	5243.64	5202.40
PR04	11/18/14	47.86	ND	0.00	62.84	Not Surveyed	
PR04	02/11/15	48.18	ND	0.00	62.84	Not Surveyed	
PR04	05/18/15	48.08	ND	0.00	62.84	Not Surveyed	
PR04	08/25/15	43.85	ND	0.00	59.28	Not Surveyed	
PR04	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR04	02/19/16	NR	ND	0.00	NM	Not Surveyed	
PR04	05/20/16	NR	ND	0.00	NM	Not Surveyed	
PR04	08/12/16	43.81	43.33	0.48	59.37	Not Surveyed	
PR04	11/18/16	40.98	40.95	0.03	NM	Not Surveyed	
PR04	02/13/17	41.62	41.42	0.20	NM	Not Surveyed	
PR04	05/09/17	40.99	40.97	0.02	NM	5243.34	5202.37
PR04	08/22/17	40.70	40.63	0.07	NM	5243.34	5202.69
PR04	11/17/17	40.81	ND	0.00	NM	5243.34	5202.53
PR04	02/23/18	40.33	ND	0.00	NM	5243.34	5203.01
PR04	05/18/18	40.21	ND	0.00	NM	5243.34	5203.13
PR04	08/24/18	40.03	ND	0.00	57.11	5243.34	5203.31
PR04	11/06/18	39.92	ND	0.00	57.14	5243.34	5203.42
PR04	02/22/19	41.12	40.69	0.43	NM	5243.34	5202.54
PR05	11/18/14	47.04	ND	0.00	62.64	Not Surveyed	
PR05	02/11/15	47.54	ND	0.00	62.64	Not Surveyed	
PR05	05/18/15	47.50	47.33	0.17	62.64	Not Surveyed	
PR05	08/25/15	43.37	43.12	0.25	59.67	Not Surveyed	
PR05	11/20/15	43.40	43.26	0.14	59.67	Not Surveyed	
PR05	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR05	05/20/16	NM	NM	NM	NM	Not Surveyed	

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR05	08/12/16	40.61	40.60	0.01	57.44	Not Surveyed	
PR05	11/18/16	40.77	40.18	0.59	NM	Not Surveyed	
PR05	02/13/17	40.98	40.79	0.19	NM	Not Surveyed	
PR05	05/09/17	40.81	40.25	0.56	NM	5243.20	5202.81
PR05	08/22/17	40.40	39.91	0.49	NM	5243.20	5203.17
PR05	11/17/17	39.71	39.65	0.06	NM	5243.20	5203.54
PR05	02/23/18	40.12	39.62	0.50	NM	5243.20	5203.46
PR05	05/18/18	39.68	39.61	0.07	NM	5243.20	5203.57
PR05	08/24/18	39.79	39.45	0.34	57.50	5243.20	5203.67
PR05	11/06/18	39.87	39.26	0.61	57.52	5243.20	5203.79
PR05	02/22/19	40.25	ND	0.00	NM	5243.20	5202.95
PR06	11/18/14	46.50	ND	0.00	62.91	Not Surveyed	
PR06	02/11/15	47.06	ND	0.00	62.91	Not Surveyed	
PR06	05/18/15	46.90	46.86	0.04	62.91	Not Surveyed	
PR06	08/25/15	42.37	42.32	0.05	59.73	Not Surveyed	
PR06	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR06	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR06	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR06	08/12/16	40.06	39.81	0.25	59.49	Not Surveyed	
PR06	11/18/16	40.21	39.55	0.66	NM	Not Surveyed	
PR06	02/13/17	40.04	ND	0.00	NM	Not Surveyed	
PR06	05/09/17	39.95	39.59	0.36	NM	5242.92	5203.24
PR06	08/22/17	39.62	39.25	0.37	NM	5242.92	5203.58
PR06	11/17/17	39.34	38.82	0.52	NM	5242.92	5203.97
PR06	02/23/18	39.18	39.05	0.13	NM	5242.92	5203.84
PR06	05/18/18	39.15	38.84	0.31	NM	5242.92	5204.00
PR06	08/24/18	38.98	38.88	0.10	57.50	5242.92	5204.02
PR06	11/06/18	39.00	38.72	0.28	57.53	5242.92	5204.13
PR06	02/22/19	39.79	39.44	0.35	NM	5242.92	5203.39
PR07	11/18/14	46.89	46.03	0.86	62.72	Not Surveyed	
PR07	02/11/15	47.40	46.61	0.79	62.72	Not Surveyed	
PR07	05/18/15	47.85	46.17	1.68	62.72	Not Surveyed	
PR07	08/25/15	43.27	40.98	2.29	59.45	Not Surveyed	
PR07	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR07	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR07	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR07	08/12/16	39.63	39.10	0.53	57.19	Not Surveyed	
PR07	11/18/16	39.81	38.83	0.98	NM	Not Surveyed	
PR07	02/13/17	40.18	39.11	1.07	NM	Not Surveyed	
PR07	05/09/17	40.32	38.70	1.62	NM	5242.62	5203.52
PR07	08/22/17	41.08	38.15	2.93	NM	5242.62	5203.74
PR07	11/17/17	38.66	38.31	0.35	NM	5242.62	5204.22
PR07	02/23/18	39.26	38.30	0.96	NM	5242.62	5204.08

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR07	05/18/18	38.64	38.22	0.42	NM	5242.62	5204.30
PR07	08/24/18	39.73	38.01	1.72	57.20	5242.62	5204.18
PR07	11/06/18	38.54	38.16	0.38	57.21	5242.62	5204.37
PR07	02/22/19	38.98	ND	0.00	NM	5242.62	5203.64
PR08	11/18/14	48.95	45.75	3.20	62.90	Not Surveyed	
PR08	02/11/15	50.33	46.11	4.22	62.90	Not Surveyed	
PR08	05/18/15	52.09	45.20	6.89	62.90	Not Surveyed	
PR08	08/25/15	45.95	38.67	7.28	58.92	Not Surveyed	
PR08	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR08	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR08	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR08	08/12/16	38.61	38.47	0.14	56.76	Not Surveyed	
PR08	11/18/16	38.76	38.36	0.40	NM	Not Surveyed	
PR08	02/13/17	38.96	38.47	0.49	NM	Not Surveyed	
PR08	05/09/17	38.42	38.39	0.03	NM	5242.35	5203.95
PR08	08/22/17	38.30	38.15	0.15	NM	5242.35	5204.16
PR08	11/17/17	37.83	37.73	0.10	NM	5242.35	5204.60
PR08	02/23/18	38.22	37.88	0.34	NM	5242.35	5204.39
PR08	05/18/18	38.04	37.60	0.44	MN	5242.35	5204.64
PR08	08/24/18	37.85	ND	0.00	56.81	5242.35	5204.50
PR08	11/06/18	37.72	37.69	0.03	56.81	5242.35	5204.65
PR08	02/22/19	38.54	38.28	0.26	NM	5242.35	5204.01
PR09	11/18/14	60.53	40.81	19.72	65.33	Not Surveyed	
PR09	02/11/15	57.77	41.32	16.45	65.33	Not Surveyed	
PR09	05/18/15	54.68	40.88	13.80	65.33	Not Surveyed	
PR09	08/25/15	44.08	38.86	5.22	65.18	Not Surveyed	
PR09	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR09	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR09	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR09	08/12/16	38.58	38.23	0.35	62.77	Not Surveyed	
PR09	11/18/16	38.48	38.30	0.18	NM	Not Surveyed	
PR09	02/13/17	39.36	37.93	1.43	NM	Not Surveyed	
PR09	05/09/17	39.02	38.01	1.01	NM	5242.27	5204.01
PR09	08/22/17	39.05	37.63	1.42	NM	5242.27	5204.29
PR09	11/17/17	38.14	37.35	0.79	NM	5242.27	5204.72
PR09	02/23/18	37.90	37.72	0.18	NM	5242.27	5204.51
PR09	05/18/18	37.76	37.39	0.37	NM	5242.27	5204.79
PR09	08/24/18	37.95	37.50	0.45	62.88	5242.27	5204.66
PR09	11/06/18	37.79	37.42	0.37	62.80	5242.27	5204.76
PR09	02/22/19	38.64	37.98	0.66	NM	5242.27	5204.13
PR10	11/18/14	52.29	43.72	8.57	68.38	Not Surveyed	
PR10	02/11/15	52.40	42.22	10.18	68.38	Not Surveyed	
PR10	05/18/15	54.06	43.55	10.51	68.38	Not Surveyed	

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR10	08/25/15	41.19	39.08	2.11	65.07	Not Surveyed	
PR10	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR10	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR10	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR10	08/12/16	37.76	ND	0.00	62.86	Not Surveyed	
PR10	11/18/16	38.12	37.77	0.35	NM	Not Surveyed	
PR10	02/13/17	37.87	37.75	0.12	NM	Not Surveyed	
PR10	05/09/17	37.94	37.67	0.27	NM	5241.96	5204.22
PR10	08/22/17	37.69	37.33	0.36	NM	5241.96	5204.54
PR10	11/17/17	37.22	36.92	0.30	NM	5241.96	5204.97
PR10	02/23/18	37.71	37.19	0.52	NM	5241.96	5204.64
PR10	05/18/18	37.40	36.90	0.50	NM	5241.96	5204.94
PR10	08/24/18	37.11	ND	0.00	62.80	5241.96	5204.85
PR10	11/06/18	37.09	ND	0.00	62.85	5241.96	5204.87
PR10	02/22/19	37.80	37.66	0.14	NM	5241.96	5204.27
PR11	11/18/14	51.90	45.35	6.55	67.98	Not Surveyed	
PR11	02/11/15	52.40	45.54	6.86	67.98	Not Surveyed	
PR11	05/18/15	57.40	44.53	12.87	67.98	Not Surveyed	
PR11	08/25/15	42.62	38.61	4.01	64.31	Not Surveyed	
PR11	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR11	02/19/16	NR	NR	5.45	NM	Not Surveyed	
PR11	05/20/16	NR	NR	2.35	NM	Not Surveyed	
PR11	08/12/16	38.95	37.20	1.75	62.14	Not Surveyed	
PR11	11/18/16	37.78	37.59	0.19	NM	Not Surveyed	
PR11	02/13/17	37.94	37.41	0.53	NM	Not Surveyed	
PR11	05/09/17	37.63	37.52	0.11	NM	5241.86	5204.31
PR11	08/22/17	37.40	37.16	0.24	NM	5241.86	5204.64
PR11	11/17/17	37.00	36.73	0.27	NM	5241.86	5205.06
PR11	02/23/18	37.53	36.97	0.56	NM	5241.86	5204.75
PR11	05/18/18	36.91	36.76	0.15	NM	5241.86	5205.06
PR11	08/24/18	36.89	ND	0.00	62.14	5241.86	5204.97
PR11	11/06/18	36.94	36.90	0.04	62.18	5241.86	5204.95
PR11	02/22/19	37.58	37.49	0.09	NM	5241.86	5204.35
PR12	11/18/14	50.22	ND	0.00	68.30	Not Surveyed	
PR12	02/11/15	48.99	48.92	0.07	68.30	Not Surveyed	
PR12	05/18/15	48.44	48.20	0.24	68.30	Not Surveyed	
PR12	08/25/15	40.92	40.13	0.79	64.42	Not Surveyed	
PR12	11/20/15	40.56	39.75	1.31	64.42	Not Surveyed	
PR12	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR12	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR12	08/12/16	37.84	37.79	0.05	62.28	Not Surveyed	
PR12	11/18/16	38.07	37.59	0.48	NM	Not Surveyed	
PR12	02/13/17	38.29	37.45	0.84	NM	Not Surveyed	

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR12	05/09/17	37.64	ND	0.00	NM	5241.53	5203.89
PR12	08/22/17	37.62	37.20	0.42	NM	5241.53	5204.23
PR12	11/17/17	37.47	36.72	0.75	NM	5241.53	5204.62
PR12	02/23/18	37.18	37.16	0.02	NM	5241.53	5204.37
PR12	05/18/18	37.37	36.67	0.70	NM	5241.53	5204.69
PR12	08/24/18	37.16	36.91	0.25	62.16	5241.53	5204.56
PR12	11/06/18	37.61	36.75	0.86	61.93	5241.53	5204.57
PR12	02/22/19	38.32	37.85	0.47	NM	5241.53	5203.56
PR13	11/18/14	48.77	ND	0.00	67.96	Not Surveyed	
PR13	02/11/15	49.08	ND	0.00	67.96	Not Surveyed	
PR13	05/18/15	48.84	ND	0.00	67.96	Not Surveyed	
PR13	08/25/15	44.39	44.34	0.05	64.08	Not Surveyed	
PR13	11/20/15	43.80	43.78	0.02	64.08	Not Surveyed	
PR13	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR13	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR13	08/12/16	41.64	41.38	0.26	61.89	Not Surveyed	
PR13	11/18/16	41.80	41.42	0.38	NM	Not Surveyed	
PR13	02/13/17	41.76	ND	0.00	NM	Not Surveyed	
PR13	05/09/17	41.24	ND	0.00	NM	5243.39	5202.15
PR13	08/22/17	48.51	48.50	0.01	NM	5243.39	5194.89
PR13	11/17/17	40.49	ND	0.00	NM	5243.39	5202.90
PR13	02/23/18	46.80	46.70	0.10	NM	5243.39	5196.67
PR13	05/18/18	40.55	40.53	0.02	NM	5243.39	5202.86
PR13	08/24/18	40.51	40.49	0.02	61.90	5243.39	5202.90
PR13	11/06/18	40.55	ND	0.00	61.88	5243.39	5202.84
PR13	02/22/19	41.79	41.72	0.07	NM	5243.39	5201.65
PR14	11/18/14	48.46	ND	0.00	67.60	Not Surveyed	
PR14	02/11/15	48.58	ND	0.00	67.60	Not Surveyed	
PR14	05/18/15	48.25	ND	0.00	67.60	Not Surveyed	
PR14	08/25/15	43.88	ND	0.00	64.37	Not Surveyed	
PR14	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR14	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR14	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR14	08/12/16	41.64	40.70	0.94	62.15	Not Surveyed	
PR14	11/18/16	41.03	ND	0.00	NM	Not Surveyed	
PR14	02/13/17	41.68	41.04	0.64	NM	Not Surveyed	
PR14	05/09/17	41.01	40.69	0.32	NM	5243.15	5202.38
PR14	08/22/17	41.20	40.10	1.10	NM	5243.15	5202.78
PR14	11/17/17	40.02	40.01	0.01	NM	5243.15	5203.14
PR14	02/23/18	41.38	39.82	1.56	NM	5243.15	5202.94
PR14	05/18/18	40.18	40.01	0.17	NM	5243.15	5203.10
PR14	08/24/18	40.44	39.95	0.49	62.05	5243.15	5203.08
PR14	11/06/18	40.29	40.15	0.14	62.14	5243.15	5202.97
PR14	02/22/19	43.12	41.41	1.71	NM	5243.15	5201.31

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR15	11/18/14	48.92	48.74	0.18	68.10	Not Surveyed	
PR15	02/11/15	49.08	48.42	0.66	68.10	Not Surveyed	
PR15	05/18/15	49.62	47.75	1.87	68.10	Not Surveyed	
PR15	08/25/15	45.91	42.92	2.99	64.77	Not Surveyed	
PR15	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR15	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR15	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR15	08/12/16	41.54	40.40	1.14	62.54	Not Surveyed	
PR15	11/18/16	42.13	40.14	1.99	NM	Not Surveyed	
PR15	02/13/17	41.16	40.79	0.37	NM	Not Surveyed	
PR15	05/09/17	41.13	40.20	0.93	NM	5243.05	5202.62
PR15	08/22/17	41.24	39.75	1.49	NM	5243.05	5202.93
PR15	11/17/17	39.84	39.77	0.07	NM	5243.05	5203.26
PR15	02/23/18	40.39	39.78	0.61	NM	5243.05	5203.12
PR15	05/18/18	39.84	39.75	0.09	NM	5243.05	5203.28
PR15	08/24/18	40.18	39.69	0.49	62.55	5243.05	5203.24
PR15	11/06/18	40.47	39.83	0.64	62.55	5243.05	5203.06
PR15	02/22/19	44.09	42.41	1.68	NM	5243.05	5200.22
PR16	11/18/14	47.70	47.06	0.64	68.40	Not Surveyed	
PR16	02/11/15	48.84	46.79	2.05	68.40	Not Surveyed	
PR16	05/18/15	51.58	45.53	6.05	68.40	Not Surveyed	
PR16	08/25/15	50.02	40.81	9.21	65.26	Not Surveyed	
PR16	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR16	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR16	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR16	08/12/16	40.83	39.85	0.98	63.11	Not Surveyed	
PR16	11/18/16	43.87	38.69	5.18	NM	Not Surveyed	
PR16	02/13/17	40.64	40.14	0.50	NM	Not Surveyed	
PR16	05/09/17	41.58	39.40	2.18	NM	5242.81	5202.87
PR16	08/22/17	41.80	38.60	3.20	NM	5242.81	5203.41
PR16	11/17/17	40.81	38.84	1.97	NM	5242.81	5203.48
PR16	02/23/18	39.69	39.35	0.34	NM	5242.81	5203.38
PR16	05/18/18	41.33	38.54	2.79	NM	5242.81	5203.57
PR16	08/24/18	41.13	38.80	2.33	63.10	5242.81	5203.43
PR16	11/06/18	39.73	39.42	0.31	63.09	5242.81	5203.31
PR16	02/22/19	46.90	41.42	5.48	NM	5242.81	5200.02
PR17	11/18/14	47.62	47.51	0.11	68.13	Not Surveyed	
PR17	02/11/15	47.69	47.44	0.25	68.13	Not Surveyed	
PR17	05/18/15	47.68	47.06	0.62	68.13	Not Surveyed	
PR17	08/25/15	43.33	42.55	0.78	65.24	Not Surveyed	
PR17	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR17	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR17	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR17	08/12/16	39.95	39.90	0.05	63.05	Not Surveyed	

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR17	11/18/16	39.74	39.63	0.11	NM	Not Surveyed	
PR17	02/13/17	40.01	39.85	0.16	NM	Not Surveyed	
PR17	05/09/17	39.80	39.61	0.19	NM	5242.70	5203.04
PR17	08/22/17	39.30	39.22	0.08	NM	5242.70	5203.46
PR17	11/17/17	38.94	38.90	0.04	NM	5242.70	5203.79
PR17	02/23/18	39.21	39.08	0.13	NM	5242.70	5203.59
PR17	05/18/18	38.86	38.79	0.07	NM	5242.70	5203.89
PR17	08/24/18	38.99	38.93	0.06	63.07	5242.70	5203.76
PR17	11/06/18	39.20	39.09	0.11	63.09	5242.70	5203.58
PR17	02/22/19	41.43	ND	0.00	NM	5242.70	5201.27
PR18	11/18/14	49.95	45.97	3.98	67.95	Not Surveyed	
PR18	02/11/15	54.62	45.95	8.67	67.95	Not Surveyed	
PR18	05/18/15	58.44	44.91	13.53	67.95	Not Surveyed	
PR18	08/25/15	50.27	40.50	9.77	65.05	Not Surveyed	
PR18	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR18	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR18	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR18	08/12/16	49.20	37.31	11.89	62.88	Not Surveyed	
PR18	11/18/16	44.79	37.70	7.09	NM	Not Surveyed	
PR18	02/13/17	42.20	38.47	3.73	NM	Not Surveyed	
PR18	05/09/17	42.84	38.08	4.76	NM	5242.35	5203.08
PR18	08/22/17	42.70	37.55	5.15	NM	5242.35	5203.51
PR18	11/17/17	38.99	38.11	0.88	NM	5242.35	5204.02
PR18	02/23/18	41.54	37.70	3.84	NM	5242.35	5203.69
PR18	05/18/18	40.59	37.68	2.91	NM	5242.35	5203.94
PR18	08/24/18	40.59	37.81	2.78	62.88	5242.35	5203.85
PR18	11/06/18	39.01	38.55	0.46	62.90	5242.35	5203.69
PR18	02/22/19	NM	NM	NM	NM	5242.35	NM
PR19	11/18/14	51.35	ND	0.00	67.98	Not Surveyed	
PR19	02/11/15	49.41	ND	0.00	67.98	Not Surveyed	
PR19	05/18/15	48.71	ND	0.00	67.98	Not Surveyed	
PR19	08/25/15	43.27	ND	0.00	64.48	Not Surveyed	
PR19	11/20/15	44.04	41.98	2.06	64.48	Not Surveyed	
PR19	02/19/16	NM	ND	0.00	NM	Not Surveyed	
PR19	05/20/16	NM	ND	0.00	NM	Not Surveyed	
PR19	08/12/16	44.98	39.59	5.39	62.32	Not Surveyed	
PR19	11/18/16	42.08	38.88	3.20	NM	Not Surveyed	
PR19	02/13/17	40.07	39.67	0.40	NM	Not Surveyed	
PR19	05/09/17	34.87	34.43	0.44	NM	5249.37	5214.83
PR19	08/22/17	40.30	38.75	1.55	NM	5249.37	5210.23
PR19	11/17/17	39.76	38.35	1.41	NM	5242.17	5203.47
PR19	02/23/18	39.54	38.53	1.01	NM	5242.17	5203.39
PR19	05/18/18	38.52	38.34	0.18	NM	5242.17	5203.79
PR19	08/24/18	38.80	38.47	0.33	62.32	5242.17	5203.62

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR19	11/06/18	39.04	38.48	0.56	62.53	5242.17	5203.55
PR19	02/22/19	40.49	ND	0.00	NM	5242.17	5201.68
PR20	11/18/14	52.50	ND	0.00	67.60	Not Surveyed	
PR20	02/11/15	52.78	ND	0.00	67.60	Not Surveyed	
PR20	05/18/15	52.71	ND	0.00	67.60	Not Surveyed	
PR20	08/25/15	49.03	ND	0.00	64.46	Not Surveyed	
PR20	11/20/15	48.99	ND	0.00	64.46	Not Surveyed	
PR20	02/19/16	NM	ND	0.00	NM	Not Surveyed	
PR20	05/20/16	NM	ND	0.00	NM	Not Surveyed	
PR20	08/12/16	46.49	ND	0.00	62.28	Not Surveyed	
PR20	11/18/16	42.64	ND	0.00	NM	Not Surveyed	
PR20	02/13/17	46.25	ND	0.00	NM	Not Surveyed	
PR20	05/09/17	NM	NM	NM	NM	5244.86	NM
PR20	08/22/17	45.90	ND	0.00	NM	5244.86	5198.96
PR20	11/17/17	45.51	ND	0.00	NM	5244.86	5199.35
PR20	02/27/18	45.62	ND	0.00	NM	5244.86	5199.24
PR20	05/18/18	45.65	ND	0.00	NM	5244.86	5199.21
PR20	08/24/18	45.56	ND	0.00	62.26	5244.86	5199.30
PR20	11/06/18	45.57	ND	0.00	62.29	5244.86	5199.29
PR20	02/22/19	45.47	ND	0.00	NM	5244.86	5199.39
PR21	11/18/14	52.39	ND	0.00	67.99	Not Surveyed	
PR21	02/11/15	52.59	ND	0.00	67.99	Not Surveyed	
PR21	05/18/15	52.52	ND	0.00	67.99	Not Surveyed	
PR21	08/25/15	48.70	ND	0.00	64.50	Not Surveyed	
PR21	11/20/15	48.56	ND	0.00	64.50	Not Surveyed	
PR21	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR21	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR21	08/12/16	46.10	ND	0.00	62.33	Not Surveyed	
PR21	11/18/16	46.55	46.54	0.01	NM	Not Surveyed	
PR21	02/13/17	45.88	ND	0.00	NM	Not Surveyed	
PR21	05/09/17	NM	NM	NM	NM	5244.58	NM
PR21	08/22/17	45.45	ND	0.00	NM	5244.58	5199.13
PR21	11/17/17	45.07	ND	0.00	NM	5244.58	5199.51
PR21	02/27/18	45.18	ND	0.00	NM	5244.58	5199.40
PR21	05/18/18	45.21	ND	0.00	NM	5244.58	5199.37
PR21	08/24/18	45.12	ND	0.00	62.33	5244.58	5199.46
PR21	11/06/18	45.10	ND	0.00	62.35	5244.58	5199.48
PR21	02/22/19	45.08	ND	0.00	NM	5244.58	5199.50
PR22	11/18/14	52.20	ND	0.00	67.62	Not Surveyed	
PR22	02/11/15	52.15	ND	0.00	67.62	Not Surveyed	
PR22	05/18/15	52.10	ND	0.00	67.92	Not Surveyed	
PR22	08/25/15	48.44	ND	0.00	64.44	Not Surveyed	
PR22	11/20/15	48.26	ND	0.00	64.44	Not Surveyed	
PR22	02/19/16	NM	NM	NM	NM	Not Surveyed	

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR22	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR22	08/12/16	45.71	ND	0.00	62.29	Not Surveyed	
PR22	11/18/16	45.69	ND	0.00	NM	Not Surveyed	
PR22	02/13/17	45.50	ND	0.00	NM	Not Surveyed	
PR22	05/09/17	NM	NM	NM	NM	5244.22	NM
PR22	08/22/17	44.98	ND	0.00	NM	5244.22	5199.24
PR22	11/17/17	44.61	ND	0.00	NM	5244.22	5199.61
PR22	02/27/18	44.70	ND	0.00	NM	5244.22	5199.52
PR22	05/18/18	44.72	ND	0.00	NM	5244.22	5199.50
PR22	08/24/18	44.73	ND	0.00	61.84	5244.22	5199.49
PR22	11/06/18	44.69	ND	0.00	62.30	5244.22	5199.53
PR22	02/22/19	44.78	ND	0.00	NM	5244.22	5199.44
PR23	11/18/14	52.52	ND	0.00	68.20	Not Surveyed	
PR23	02/11/15	52.18	ND	0.00	68.20	Not Surveyed	
PR23	05/18/15	52.09	ND	0.00	68.20	Not Surveyed	
PR23	08/25/15	48.16	ND	0.00	64.39	Not Surveyed	
PR23	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR23	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR23	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR23	08/12/16	45.21	ND	0.00	62.17	Not Surveyed	
PR23	11/18/16	45.29	ND	0.00	NM	Not Surveyed	
PR23	02/13/17	45.00	ND	0.00	NM	Not Surveyed	
PR23	05/09/17	NM	NM	NM	NM	5243.92	NM
PR23	08/22/17	44.40	ND	0.00	NM	5243.92	5199.52
PR23	11/17/17	44.00	ND	0.00	NM	5243.92	5199.92
PR23	02/27/18	44.14	ND	0.00	NM	5243.92	5199.78
PR23	05/18/18	44.19	ND	0.00	NM	5243.92	5199.73
PR23	08/24/18	44.28	ND	0.00	62.13	5243.92	5199.64
PR23	11/06/18	44.31	ND	0.00	62.18	5243.92	5199.61
PR23	02/22/19	44.56	ND	0.00	NM	5243.92	5199.36
PR24	11/18/14	51.71	ND	0.00	68.12	Not Surveyed	
PR24	02/11/15	51.82	51.65	0.17	68.12	Not Surveyed	
PR24	05/18/15	52.04	51.44	0.60	68.12	Not Surveyed	
PR24	08/25/15	48.29	47.56	0.73	64.30	Not Surveyed	
PR24	11/09/15	NM	NM	NM	NM	Not Surveyed	
PR24	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR24	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR24	08/12/16	44.80	44.66	0.14	62.09	Not Surveyed	
PR24	11/18/16	44.83	ND	0.00	NM	Not Surveyed	
PR24	02/13/17	44.55	44.50	0.05	NM	Not Surveyed	
PR24	05/09/17	44.18	44.10	0.08	NM	5243.46	5199.34
PR24	08/22/17	43.90	43.85	0.05	NM	5243.46	5199.60
PR24	11/17/17	44.58	44.54	0.04	NM	5243.46	5198.91
PR24	02/23/18	43.97	43.78	0.19	NM	5243.46	5199.63

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR24	05/18/18	43.75	43.62	0.13	NM	5243.46	5199.81
PR24	08/24/18	43.77	43.69	0.08	62.08	5243.46	5199.75
PR24	11/06/18	43.96	43.79	0.17	62.10	5243.46	5199.63
PR24	02/22/19	44.33	44.12	0.21	NM	5243.46	5199.29
PR25	11/18/14	66.20	ND	0.00	68.15	Not Surveyed	
PR25	02/11/15	51.75	51.28	0.47	68.15	Not Surveyed	
PR25	05/18/15	52.46	50.94	1.52	68.15	Not Surveyed	
PR25	08/25/15	49.24	46.78	2.46	64.39	Not Surveyed	
PR25	11/20/15	50.03	26.24	23.79	64.39	Not Surveyed	
PR25	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR25	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR25	08/12/16	50.80	42.86	7.94	62.27	Not Surveyed	
PR25	11/18/16	48.93	42.76	6.17	NM	Not Surveyed	
PR25	02/13/17	44.53	44.09	0.44	NM	Not Surveyed	
PR25	05/09/17	45.93	43.11	2.82	NM	5243.21	5199.40
PR25	08/22/17	45.90	42.80	3.10	NM	5243.21	5199.64
PR25	11/17/17	43.43	43.10	0.33	NM	5243.21	5200.03
PR25	02/23/18	43.61	43.27	0.34	NM	5243.21	5199.86
PR25	05/18/18	44.24	42.86	1.38	NM	5243.21	5200.01
PR25	08/24/18	43.97	43.02	0.95	61.89	5243.21	5199.95
PR25	11/06/18	43.90	43.43	0.47	62.11	5243.21	5199.66
PR25	02/22/19	44.19	44.07	0.12	NM	5243.21	5199.11
PR26	11/18/14	51.21	51.19	0.02	67.90	Not Surveyed	
PR26	02/11/15	51.46	51.19	0.27	67.90	Not Surveyed	
PR26	05/18/15	51.64	50.95	0.69	67.90	Not Surveyed	
PR26	08/25/15	47.68	46.78	0.90	63.98	Not Surveyed	
PR26	11/20/15	47.60	46.50	1.10	63.98	Not Surveyed	
PR26	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR26	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR26	08/12/16	46.27	43.13	3.14	61.89	Not Surveyed	
PR26	11/18/16	43.96	43.62	0.34	NM	Not Surveyed	
PR26	02/13/17	43.65	43.24	0.41	NM	Not Surveyed	
PR26	05/09/17	44.32	42.59	1.73	NM	5242.84	5199.82
PR26	08/22/17	44.50	42.19	2.31	NM	5242.84	5200.07
PR26	11/17/17	42.67	42.39	0.28	NM	5242.84	5200.38
PR26	02/23/18	43.54	42.40	1.14	NM	5242.84	5200.16
PR26	05/18/18	42.74	42.41	0.33	NM	5242.84	5200.35
PR26	08/24/18	42.90	42.41	0.49	61.85	5242.84	5200.31
PR26	11/06/18	43.32	42.96	0.36	61.85	5242.84	5199.79
PR26	02/22/19	44.04	43.89	0.15	NM	5242.84	5198.91
SB01	02/21/14	41.68	ND	0.00	60.35	5245.29	5203.61
SB01	05/16/14	41.13	ND	0.00	60.35	5245.29	5204.16
SB01	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen					

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB02	02/21/14	39.80	ND	0.00	59.95	5243.53	5203.73
SB02	05/16/14	38.97	ND	0.00	59.95	5243.53	5204.56
SB02	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen					
SB03	02/21/14	42.01	ND	0.00	51.38	5245.57	5203.56
SB03	05/16/14	41.41	ND	0.00	51.38	5245.57	5204.16
SB03	08/27/14	41.82	ND	0.00	51.38	5245.57	5203.75
SB03	11/18/14	41.56	ND	0.00	51.38	5245.57	5204.01
SB03	02/11/15	41.82	ND	0.00	51.38	5245.57	5203.75
SB03	05/18/15	41.72	ND	0.00	51.38	5245.57	5203.85
SB03	08/25/15	35.39	ND	0.00	45.81	5241.17	5205.78
SB03	11/20/15	34.49	ND	0.00	45.81	5242.17	5207.68
SB03	02/19/16	34.26	ND	0.00	45.79	5242.17	5207.91
SB03	05/20/16	33.57	ND	0.00	45.79	5242.17	5208.60
SB03	08/12/16	32.57	ND	0.00	45.80	5242.17	5209.60
SB03	11/18/16	31.76	ND	0.00	45.87	5242.17	5210.41
SB03	02/13/17	31.23	ND	0.00	45.81	5242.17	5210.94
SB03	05/09/17	30.83	ND	0.00	45.83	5242.17	5211.34
SB03	08/22/17	30.61	ND	0.00	45.85	5242.17	5211.56
SB03	11/17/17	29.39	ND	0.00	45.83	5242.17	5212.78
SB03	02/23/18	28.96	ND	0.00	45.89	5242.17	5213.21
SB03	05/18/18	28.77	ND	0.00	46.00	5242.17	5213.40
SB03	08/24/18	28.27	ND	0.00	45.95	5242.17	5213.90
SB03	11/06/18	27.73	ND	0.00	45.91	5242.17	5214.44
SB03	02/22/19	27.56	ND	0.00	45.90	5242.17	5214.61
SB04	02/21/14	39.24	ND	0.00	50.35	5242.85	5203.61
SB04	05/16/14	38.37	ND	0.00	50.35	5242.85	5204.48
SB04	08/27/14	38.97	ND	0.00	50.35	5242.85	5203.88
SB04	11/18/14	38.72	ND	0.00	50.35	5242.85	5204.13
SB04	02/11/15	39.01	ND	0.00	50.35	5242.85	5203.84
SB04	05/18/15	38.87	ND	0.00	50.35	5242.85	5203.98
SB04	08/25/15	34.70	ND	0.00	48.67	5241.29	5206.59
SB04	11/20/15	33.97	ND	0.00	48.67	5242.29	5208.32
SB04	02/19/16	33.80	ND	0.00	48.69	5242.29	5208.49
SB04	05/20/16	36.50	ND	0.00	52.04	5244.63	5208.13
SB04	08/12/16	35.66	ND	0.00	52.02	5244.63	5208.97
SB04	11/18/16	35.01	ND	0.00	52.08	5244.63	5209.62
SB04	02/13/17	34.50	ND	0.00	52.02	5244.63	5210.13
SB04	05/09/17	34.17	ND	0.00	52.03	5244.63	5210.46
SB04	08/22/17	33.96	ND	0.00	52.01	5244.63	5210.67
SB04	11/17/17	32.54	ND	0.00	52.01	5244.63	5212.09
SB04	02/23/18	32.67	ND	0.00	52.08	5244.63	5211.96
SB04	05/18/18	32.42	ND	0.00	52.15	5244.63	5212.21
SB04	08/24/18	31.93	ND	0.00	52.15	5244.63	5212.70
SB04	11/06/18	31.40	ND	0.00	52.09	5244.63	5213.23
SB04	02/22/19	31.16	ND	0.00	52.02	5244.63	5213.47

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB05	02/21/14	45.35	41.10	4.25	49.10	5244.11	5201.94
SB05	05/16/14	42.19	41.92	0.27	49.10	5244.11	5202.12
SB05	08/27/14	42.45	41.10	1.35	49.10	5244.11	5202.67
SB05	11/18/14	41.61	41.27	0.34	49.10	5244.11	5202.75
SB05	02/11/15	42.92	41.58	1.34	49.10	5244.11	5202.19
SB05	05/18/15	42.36	41.38	0.98	49.10	5243.26	5201.64
SB05	08/25/15	38.02	36.99	1.03	47.39	5243.26	5206.01
SB05	11/20/15	38.12	36.78	1.34	47.39	5244.26	5207.15
SB05	02/19/16	36.70	ND	0.00 [1]	47.39	5244.26	5207.56
SB05	05/20/16	43.95	41.63	2.32	51.85	5247.71	5205.50
SB05	08/12/16	44.64	41.84	2.80	51.89	5247.71	5205.17
SB05	11/18/16	44.93	41.90	3.03	NM	5247.71	5205.05
SB05	02/13/17	44.70	41.66	3.04	NM	5247.71	5205.29
SB05	05/09/17	44.87	41.64	3.23	51.89	5247.71	5205.26
SB05	08/22/17	45.07	41.66	3.41	NM	5247.71	5205.20
SB05	11/17/17	44.40	41.20	3.20	NM	5247.71	5205.71
SB05	02/23/18	43.45	43.16	0.29	NM	5247.71	5204.48
SB05	05/18/18	41.73	41.63	0.10	52.07	5247.71	5206.06
SB05	08/24/18	42.48	41.74	0.74	51.90	5247.71	5205.79
SB05	11/06/18	42.09	41.84	0.25	51.95	5247.71	5205.81
SB05	02/22/19	43.04	41.60	1.44	NM	5247.71	5205.75
SB06	02/21/14	39.86	ND	0.00	49.52	5243.55	5203.69
SB06	05/16/14	38.91	ND	0.00	49.52	5243.55	5204.64
SB06	08/27/14	39.55	ND	0.00	49.52	5243.55	5204.00
SB06	11/18/14	39.32	ND	0.00	49.52	5243.55	5204.23
SB06	02/11/15	39.59	ND	0.00	49.52	5243.55	5203.96
SB06	05/18/15	39.49	ND	0.00	49.52	5243.55	5204.06
SB06	08/25/15	35.21	ND	0.00	47.61	5241.80	5206.59
SB06	11/20/15	34.44	ND	0.00	47.61	5242.80	5208.36
SB06	02/19/16	34.20	ND	0.00	47.60	5242.80	5208.60
SB06	05/20/16	37.08	ND	0.00	50.98	5245.23	5208.15
SB06	08/12/16	36.38	ND	0.00	50.98	5245.23	5208.85
SB06	11/18/16	35.73	ND	0.00	51.10	5245.23	5209.50
SB06	02/13/17	35.33	ND	0.00	50.96	5245.23	5209.90
SB06	05/09/17	34.95	ND	0.00	50.96	5245.23	5210.28
SB06	08/22/17	34.82	ND	0.00	50.97	5245.23	5210.41
SB06	11/17/17	33.75	ND	0.00	50.89	5245.23	5211.48
SB06	02/23/18	33.57	ND	0.00	51.09	5245.23	5211.66
SB06	05/18/18	33.27	ND	0.00	51.39	5245.23	5211.96
SB06	08/24/18	32.80	ND	0.00	51.00	5245.23	5212.43
SB06	11/06/18	32.26	ND	0.00	51.08	5245.23	5212.97
SB06	02/22/19	32.02	ND	0.00	50.96	5245.23	5213.21
SB07	02/21/14	42.73	ND	0.00	50.40	5245.62	5202.89
SB07	05/16/14	42.70	ND	0.00	50.40	5245.62	5202.92
SB07	08/27/14	42.55	ND	0.00	50.40	5245.62	5203.07

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB07	11/18/14	42.34	ND	0.00	50.40	5245.62	5203.28
SB07	02/11/15	42.45	ND	0.00	50.40	5245.62	5203.17
SB07	05/18/15	39.70	ND	0.00	47.82	5243.18	5203.48
SB07	08/25/15	38.25	ND	0.00	47.84	5243.18	5204.93
SB07	11/20/15	33.08	ND	0.00	47.84	5244.18	5211.10
SB07	02/19/16	34.78	ND	0.00	47.84	5244.18	5209.40
SB07	05/20/16	40.30	ND	0.00	51.56	5246.91	5206.61
SB07	08/12/16	40.37	ND	0.00	51.56	5246.91	5206.54
SB07	11/18/16	40.17	ND	0.00	51.63	5246.91	5206.74
SB07	02/13/17	39.84	ND	0.00	51.56	5246.91	5207.07
SB07	05/09/17	39.60	ND	0.00	51.56	5246.91	5207.31
SB07	08/22/17	39.40	ND	0.00	51.56	5246.91	5207.51
SB07	11/17/17	39.05	ND	0.00	51.56	5246.91	5207.86
SB07	02/23/18	38.59	ND	0.00	51.62	5246.91	5208.32
SB07	05/18/18	38.23	ND	0.00	51.74	5246.91	5208.68
SB07	08/24/18	38.08	ND	0.00	51.67	5246.91	5208.83
SB07	11/06/18	37.73	ND	0.00	51.63	5246.91	5209.18
SB07	02/22/19	37.24	ND	0.00	51.58	5246.91	5209.67
SB08	02/21/14	44.46	ND	0.00	50.41	5246.57	5202.11
SB08	05/16/14	44.54	ND	0.00	50.41	5246.57	5202.03
SB08	08/27/14	44.30	ND	0.00	50.41	5246.57	5202.27
SB08	11/18/14	45.16	44.88	0.28	50.41	5246.57	5201.62
SB08	02/11/15	45.64	45.51	0.13	50.41	5246.57	5201.03
SB08	05/18/15	45.09	ND	0.00	50.41	5246.57	5201.48
SB08	08/25/15	40.63	ND	0.00	48.32	5244.80	5204.17
SB08	11/20/15	39.04	39.01	0.03	48.32	5245.80	5206.78
SB08	02/19/16	35.17	ND	0.00 [1]	48.32	5245.80	5210.63
SB08	05/20/16	42.88	ND	0.00	51.08	5247.67	5204.79
SB08	08/12/16	43.20	ND	0.00	51.00	5247.67	5204.47
SB08	11/18/16	42.91	ND	0.00	51.26	5247.67	5204.76
SB08	02/13/17	42.75	ND	0.00	51.08	5247.67	5204.92
SB08	05/09/17	42.72	ND	0.00	51.10	5247.67	5204.95
SB08	08/22/17	42.44	ND	0.00	51.09	5247.67	5205.23
SB08	11/17/17	42.10	ND	0.00	51.09	5247.67	5205.57
SB08	02/23/18	42.08	ND	0.00	51.26	5247.67	5205.59
SB08	05/18/18	41.72	ND	0.00	51.35	5247.67	5205.95
SB08	08/24/18	41.97	ND	0.00	51.09	5247.67	5205.70
SB08	11/06/18	41.79	ND	0.00	51.29	5247.67	5205.88
SB08	02/22/19	42.56	ND	0.00	51.10	5247.67	5205.11
SB09	02/21/14	45.80	43.00	2.80	50.55	5245.53	5201.83
SB09	05/16/14	45.37	43.81	1.56	50.55	5245.53	5201.33
SB09	08/27/14	42.67	42.12	0.55	49.79	5244.86	5202.60
SB09	11/18/14	42.19	41.37	0.82	50.55	5244.86	5203.29
SB09	02/11/15	43.07	41.97	1.10	50.55	5244.86	5202.62
SB09	05/18/15	42.30	41.23	1.07	50.55	5244.86	5203.36

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB09	08/25/15	39.98	38.35	1.63	47.44	5243.49	5204.73
SB09	11/20/15	40.11	38.36	1.75	47.44	5244.49	5205.69
SB09	02/19/16	38.17	NM	NM[1]	47.44	5244.49	5206.32
SB09	05/20/16	43.94	42.99	0.95	52.15	5248.20	5204.98
SB09	08/12/16	44.39	43.30	1.09	52.19	5248.20	5204.63
SB09	11/18/16	44.49	43.35	1.14	NM	5248.20	5204.57
SB09	02/13/17	44.32	43.29	1.03	NM	5248.20	5204.66
SB09	05/09/17	44.23	43.19	1.04	52.15	5248.20	5204.75
SB09	08/22/17	44.32	43.19	1.13	NM	5248.20	5204.73
SB09	11/17/17	43.51	42.65	0.86	NM	5248.20	5205.34
SB09	02/23/18	43.89	42.90	0.99	NM	5248.20	5205.05
SB09	05/18/18	43.88	43.86	0.02	NM	5248.20	5204.34
SB09	08/24/18	42.84	42.83	0.01	52.07	5248.20	5205.37
SB09	11/06/18	42.75	42.74	0.01	52.13	5248.20	5205.46
SB09	02/22/19	43.13	ND	0.00	52.07	5248.20	5205.07
SB10	02/21/14	41.71	ND	0.00	50.49	5245.24	5203.53
SB10	05/16/14	41.17	ND	0.00	50.49	5245.24	5204.07
SB10	08/27/14	41.23	41.22	0.01	50.49	5245.24	5204.02
SB10	11/18/14	40.92	ND	0.00	50.49	5245.24	5204.32
SB10	02/11/15	41.18	ND	0.00	50.49	5245.24	5204.06
SB10	05/18/15	39.03	ND	0.00	48.35	5243.28	5204.25
SB10	08/25/15	37.39	ND	0.00	48.35	5243.28	5205.89
SB10	11/20/15	36.25	ND	0.00	48.35	5244.28	5208.03
SB10	02/19/16	35.65	ND	0.00 [1]	48.35	5244.28	5208.63
SB10	05/20/16	40.29	ND	0.00	51.89	5247.80	5207.51
SB10	08/12/16	40.19	ND	0.00	52.90	5247.80	5207.61
SB10	11/18/16	39.82	ND	0.00	52.96	5247.80	5207.98
SB10	02/13/17	39.56	ND	0.00	52.90	5247.80	5208.24
SB10	05/09/17	39.09	ND	0.00	52.92	5247.81	5208.72
SB10	08/22/17	38.94	ND	0.00	52.91	5247.81	5208.87
SB10	11/17/17	38.05	ND	0.00	52.90	5247.81	5209.76
SB10	02/23/18	37.89	ND	0.00	52.96	5247.81	5209.92
SB10	05/18/18	37.46	ND	0.00	53.04	5247.81	5210.35
SB10	08/24/18	36.90	ND	0.00	53.00	5247.81	5210.91
SB10	11/06/18	36.61	ND	0.00	52.98	5247.81	5211.20
SB10	02/22/19	36.20	ND	0.00	52.91	5247.81	5211.61
SB11	02/21/14	40.03	ND	0.00	50.35	5244.09	5204.06
SB11	05/16/14	38.96	ND	0.00	50.35	5244.09	5205.13
SB11	08/27/14	39.70	ND	0.00	50.35	5244.09	5204.39
SB11	11/18/14	39.41	ND	0.00	50.35	5244.09	5204.68
SB11	02/11/15	39.65	ND	0.00	50.35	5244.09	5204.44
SB11	05/18/15	39.29	ND	0.00	50.35	5244.09	5204.80
SB11	08/25/15	35.30	ND	0.00	48.11	5241.88	5206.58
SB11	11/20/15	34.59	ND	0.00	48.11	5242.88	5208.29
SB11	02/19/16	34.32	ND	0.00	48.11	5242.88	5208.56

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB11	05/20/16	37.15	ND	0.00	51.54	5245.20	5208.05
SB11	08/12/16	36.65	ND	0.00	51.44	5245.20	5208.55
SB11	11/18/16	36.05	ND	0.00	51.51	5245.20	5209.15
SB11	02/13/17	35.69	ND	0.00	51.44	5245.20	5209.51
SB11	05/09/17	35.29	ND	0.00	51.46	5245.21	5209.92
SB11	08/22/17	35.19	ND	0.00	51.44	5245.21	5210.02
SB11	11/17/17	34.16	ND	0.00	51.45	5245.21	5211.05
SB11	02/23/18	33.98	ND	0.00	51.50	5245.21	5211.23
SB11	05/18/18	33.62	ND	0.00	51.66	5245.21	5211.59
SB11	08/24/18	33.21	ND	0.00	51.56	5245.21	5212.00
SB11	02/22/19	32.33	ND	0.00	51.42	5245.21	5212.88
SB12	02/21/14	39.44	ND	0.00	50.50	5243.18	5203.74
SB12	05/16/14	39.31	ND	0.00	50.50	5243.18	5203.87
SB12	08/27/14	39.30	ND	0.00	50.50	5243.18	5203.88
SB12	11/18/14	39.29	ND	0.00	50.50	5243.18	5203.89
SB12	02/11/15	39.14	ND	0.00	50.50	5243.18	5204.04
SB12	05/18/15	38.93	ND	0.00	50.50	5243.18	5204.25
SB12	08/25/15	36.31	ND	0.00	48.60	5241.41	5205.10
SB12	11/20/15	35.10	ND	0.00	48.60	5242.41	5207.31
SB12	02/19/16	34.22	ND	0.00	48.61	5242.41	5208.19
SB12	05/20/16	33.74	ND	0.00	48.61	5242.41	5208.67
SB12	08/12/16	32.90	ND	0.00	48.62	5242.41	5209.51
SB12	11/18/16	31.68	ND	0.00	48.70	5242.41	5210.73
SB12	02/13/17	30.93	ND	0.00	48.63	5242.41	5211.48
SB12	05/09/17	30.51	ND	0.00	48.62	5242.41	5211.90
SB12	08/22/17	34.40	ND	0.00	48.63	5242.41	5208.01
SB12	11/17/17	29.54	ND	0.00	48.64	5242.41	5212.87
SB12	02/23/18	29.00	ND	0.00	48.36	5242.41	5213.41
SB12	05/18/18	28.82	ND	0.00	48.79	5242.41	5213.59
SB12	08/24/18	28.47	ND	0.00	48.75	5242.41	5213.94
SB12	11/06/18	27.59	ND	0.00	48.70	5242.41	5214.82
SB12	02/22/19	27.33	ND	0.00	48.64	5242.41	5215.08
SB13	02/21/14	42.93	ND	0.00	50.48	5244.13	5201.20
SB13	05/16/14	42.43	ND	0.00	50.48	5244.13	5201.70
SB13	08/27/14	41.30	ND	0.00	50.48	5244.13	5202.83
SB13	11/18/14	40.79	ND	0.00	50.48	5244.13	5203.34
SB13	02/11/15	40.65	ND	0.00	50.48	5244.13	5203.48
SB13	05/18/15	40.26	ND	0.00	50.48	5244.13	5203.87
SB13	08/25/15	36.95	ND	0.00	48.39	5242.18	5205.23
SB13	11/20/15	34.54	ND	0.00	48.39	5243.18	5208.64
SB13	02/19/16	33.83	ND	0.00	48.07	5243.18	5209.35
SB13	05/20/16	37.35	ND	0.00	51.69	5245.47	5208.12
SB13	08/12/16	36.46	ND	0.00	51.69	5245.47	5209.01
SB13	11/18/16	35.98	ND	0.00	51.74	5245.47	5209.49
SB13	02/13/17	35.74	ND	0.00	51.68	5245.47	5209.73

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB13	05/09/17	35.45	ND	0.00	51.69	5245.47	5210.02
SB13	08/22/17	35.29	ND	0.00	51.68	5245.47	5210.18
SB13	11/17/17	34.64	ND	0.00	49.99	5245.47	5210.83
SB13	02/23/18	34.28	ND	0.00	50.18	5245.47	5211.19
SB13	05/18/18	34.00	ND	0.00	50.57	5245.47	5211.47
SB13	08/24/18	33.65	ND	0.00	50.14	5245.47	5211.82
SB13	11/06/18	32.97	ND	0.00	50.26	5245.47	5212.50
SB13	02/22/19	32.58	ND	0.00	50.19	5245.47	5212.89
SB14	02/21/14	41.04	ND	0.00	50.39	5244.82	5203.78
SB14	05/16/14	40.36	ND	0.00	50.39	5244.82	5204.46
SB14	08/27/14	40.67	ND	0.00	50.39	5244.82	5204.15
SB14	11/18/14	40.36	ND	0.00	50.39	5244.82	5204.46
SB14	02/11/15	40.64	ND	0.00	50.39	5244.82	5204.18
SB14	05/18/15	40.52	ND	0.00	50.39	5244.82	5204.30
SB14	08/25/15	36.86	ND	0.00	48.45	5243.02	5206.16
SB14	11/20/15	35.82	ND	0.00	48.45	5244.02	5208.20
SB14	02/19/16	35.34	ND	0.00	48.45	5244.02	5208.68
SB14	05/20/16	38.42	ND	0.00	51.94	5246.22	5207.80
SB14	08/12/16	38.23	ND	0.00	51.64	5246.22	5207.99
SB14	11/18/16	37.77	ND	0.00	51.69	5246.22	5208.45
SB14	02/13/17	37.41	ND	0.00	51.63	5246.22	5208.81
SB14	05/09/17	37.02	ND	0.00	51.65	5246.22	5209.20
SB14	08/22/17	36.93	ND	0.00	51.65	5246.22	5209.29
SB14	11/17/17	35.99	ND	0.00	51.65	5246.22	5210.23
SB14	02/23/18	35.80	ND	0.00	51.70	5246.22	5210.42
SB14	05/18/18	35.40	ND	0.00	51.80	5246.22	5210.82
SB14	08/24/18	35.03	ND	0.00	51.76	5246.22	5211.19
SB14	11/06/18	34.51	ND	0.00	51.71	5246.22	5211.71
SB14	02/22/19	34.11	ND	0.00	51.62	5246.22	5212.11
SB15	02/21/14	40.67	ND	0.00	45.40	5244.25	5203.58
SB15	05/16/14	40.39	ND	0.00	45.40	5244.25	5203.86
SB15	08/27/14	40.38	ND	0.00	45.40	5244.25	5203.87
SB15	11/18/14	40.10	ND	0.00	45.40	5244.25	5204.15
SB15	02/11/15	40.23	ND	0.00	45.40	5244.25	5204.02
SB15	05/18/15	40.10	ND	0.00	45.10	5244.37	5204.27
SB15	08/25/15	38.88	ND	0.00	45.13	5244.37	5205.49
SB15	11/20/15	37.37	ND	0.00	45.13	5245.37	5208.00
SB15	02/19/16	37.15	ND	0.00	45.13	5245.37	5208.22
SB15	05/20/16	40.91	ND	0.00	48.72	5247.97	5207.06
SB15	08/12/16	40.86	ND	0.00	48.37	5247.97	5207.11
SB15	11/18/16	40.38	ND	0.00	48.77	5247.97	5207.59
SB15	02/13/17	40.04	ND	0.00	48.45	5247.97	5207.93
SB15	05/09/17	39.56	ND	0.00	48.41	5247.97	5208.41
SB15	08/22/17	39.28	ND	0.00	48.37	5247.97	5208.69
SB15	11/17/17	38.32	ND	0.00	48.38	5247.97	5209.65

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB15	02/23/18	37.73	ND	0.00	48.55	5247.97	5210.24
SB15	05/18/18	37.35	ND	0.00	48.95	5247.97	5210.62
SB15	08/24/18	37.13	ND	0.00	48.38	5247.97	5210.84
SB15	11/06/18	36.74	ND	0.00	48.57	5247.97	5211.23
SB15	02/22/19	36.41	ND	0.00	48.32	5247.97	5211.56
SB16	02/21/14	42.53	ND	0.00	42.78	5247.56	DRY
SB16	05/16/14	42.53	ND	0.00	42.78	5247.56	DRY
SB16	08/27/14	42.54	ND	0.00	42.78	5247.56	DRY
SB16	11/18/14	42.56	ND	0.00	42.78	5247.56	DRY
SB16	02/11/15	42.55	ND	0.00	42.78	5247.56	DRY
SB16	05/18/15	42.50	ND	0.00	42.78	5247.56	DRY
SB16	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB16R	02/21/14	46.69	46.16	0.53	63.30	5247.81	5201.51
SB16R	05/16/14	46.59	ND	0.00	63.30	5247.81	5201.22
SB16R	08/27/14	45.94	45.85	0.09	63.30	5247.81	5201.93
SB16R	11/18/14	46.61	46.58	0.03	63.30	5247.81	5201.22
SB16R	02/11/15	46.85	46.48	0.37	63.30	5247.81	5201.23
SB16R	05/18/15	44.09	43.95	0.14	63.30	5245.56	5201.57
SB16R	08/25/15	42.65	41.29	1.36	60.35	5245.56	5203.93
SB16R	11/20/15	42.82	42.04	0.78	60.35	5246.56	5204.32
SB16R	02/19/16	42.81	41.57	1.24	60.35	5246.56	5204.68
SB16R	05/20/16	ND [2]	45.19	> 0.51	45.70	5249.19	DRY [2]
SB16R	08/12/16	ND [2]	45.29	> 0.66	45.95	5249.19	DRY [2]
SB16R	11/18/16	ND [2]	45.14	>1.28	46.42	5249.19	DRY [2]
SB16R	02/13/17	ND [2]	45.34	> 1.42	46.76	5249.19	DRY [2]
SB16R	05/09/17	Removed From Groundwater Monitoring Program - Well Casing Damaged					
SB16R2	08/22/17	45.23	ND	0.00	62.42	Not Surveyed	
SB16R2	11/17/17	44.69	44.65	0.04	NM	5248.93	5204.27
SB16R2	02/27/18	44.77	44.57	0.20	NM	5248.93	5204.31
SB16R2	05/18/18	44.80	44.50	0.30	NM	5248.93	5204.36
SB16R2	08/24/18	44.95	44.65	0.30	62.42	5248.93	5204.21
SB16R2	11/06/18	44.99	44.48	0.51	62.49	5248.93	5204.32
SB16R2	02/22/19	46.07	45.42	0.65	NM	5248.93	5203.35
SB17	02/21/14	43.97	ND	0.00	50.40	5244.55	5200.58
SB17	05/16/14	42.99	ND	0.00	50.40	5244.55	5201.56
SB17	08/27/14	41.19	ND	0.00	50.40	5244.55	5203.36
SB17	11/18/14	40.81	ND	0.00	50.40	5244.55	5203.74
SB17	02/11/15	40.65	ND	0.00	50.40	5244.55	5203.90
SB17	05/18/15	40.40	ND	0.00	50.40	5244.55	5204.15
SB17	08/25/15	38.37	ND	0.00	48.44	5242.72	5204.35
SB17	11/20/15	38.22	ND	0.00	48.44	5243.72	5205.50
SB17	02/19/16	37.59	ND	0.00	48.44	5243.72	5206.13
SB17	05/20/16	36.77	ND	0.00	48.44	5243.72	5206.95
SB17	08/12/16	36.33	ND	0.00	48.43	5243.72	5207.39
SB17	11/18/16	35.52	ND	0.00	48.50	5243.72	5208.20

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB17	02/13/17	34.42	ND	0.00	48.43	5243.72	5209.30
SB17	05/09/17	33.59	ND	0.00	48.42	5243.72	5210.13
SB17	08/22/17	32.97	ND	0.00	48.44	5243.72	5210.75
SB17	11/17/17	32.15	ND	0.00	48.44	5243.72	5211.57
SB17	02/23/18	31.33	ND	0.00	48.50	5243.72	5212.39
SB17	05/18/18	30.76	ND	0.00	49.20	5243.72	5212.96
SB17	08/24/18	30.49	ND	0.00	48.56	5243.72	5213.23
SB17	11/06/18	29.92	ND	0.00	48.51	5243.72	5213.80
SB17	02/22/19	28.89	ND	0.00	48.45	5243.72	5214.83
SB18	02/21/14	40.95	ND	0.00	50.38	5245.80	5204.85
SB18	05/16/14	40.98	ND	0.00	50.38	5245.80	5204.82
SB18	08/27/14	41.22	ND	0.00	50.38	5245.80	5204.58
SB18	11/18/14	41.22	ND	0.00	50.38	5245.80	5204.58
SB18	02/11/15	41.12	ND	0.00	50.38	5245.80	5204.68
SB18	05/18/15	37.38	ND	0.00	48.18	5243.72	5206.34
SB18	08/25/15	38.55	ND	0.00	48.19	5243.72	5205.17
SB18	11/20/15	38.14	ND	0.00	48.19	5244.72	5206.58
SB18	02/19/16	37.44	ND	0.00	48.09	5244.72	5207.28
SB18	05/20/16	36.69	ND	0.00	48.09	5244.72	5208.03
SB18	08/12/16	36.51	ND	0.00	48.22	5244.72	5208.21
SB18	11/18/16	35.87	ND	0.00	48.23	5244.72	5208.85
SB18	02/13/17	34.94	ND	0.00	48.18	5244.72	5209.78
SB18	05/09/17	34.12	ND	0.00	48.20	5244.72	5210.60
SB18	08/22/17	33.60	ND	0.00	48.20	5244.72	5211.12
SB18	11/17/17	32.77	ND	0.00	NM	5244.72	5211.95
SB18	02/23/18	32.01	ND	0.00	NM	5244.72	5212.71
SB18	05/18/18	31.52	ND	0.00	NM	5244.72	5213.20
SB18	08/24/18	31.43	ND	0.00	48.32	5244.72	5213.29
SB18	11/06/18	30.89	ND	0.00	48.27	5244.72	5213.83
SB18	02/22/19	30.03	ND	0.00	48.21	5244.72	5214.69
SB19	02/21/14	43.53	ND	0.00	50.41	5246.58	5203.05
SB19	05/16/14	42.65	ND	0.00	50.41	5246.58	5203.93
SB19	08/27/14	41.44	ND	0.00	50.41	5246.58	5205.14
SB19	11/18/14	41.08	ND	0.00	50.41	5246.58	5205.50
SB19	02/11/15	40.81	ND	0.00	50.41	5246.58	5205.77
SB19	05/18/15	38.40	ND	0.00	48.37	5244.65	5206.25
SB19	08/25/15	38.30	ND	0.00	48.11	5244.65	5206.35
SB19	11/20/15	38.06	ND	0.00	48.11	5245.65	5207.59
SB19	02/19/16	37.23	ND	0.00	48.11	5245.65	5208.42
SB19	05/20/16	36.50	ND	0.00	48.11	5245.65	5209.15
SB19	08/12/16	36.24	ND	0.00	48.13	5245.65	5209.41
SB19	11/18/16	35.47	ND	0.00	48.25	5245.65	5210.18
SB19	02/13/17	34.29	ND	0.00	48.13	5245.65	5211.36
SB19	05/09/17	33.50	ND	0.00	48.12	5245.65	5212.15
SB19	08/22/17	32.79	ND	0.00	48.14	5245.65	5212.86

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB19	11/17/17	32.16	ND	0.00	48.13	5245.65	5213.49
SB19	02/23/18	31.43	ND	0.00	48.21	5245.65	5214.22
SB19	05/18/18	31.11	ND	0.00	48.32	5245.65	5214.54
SB19	08/24/18	31.13	ND	0.00	48.17	5245.65	5214.52
SB19	11/06/18	30.90	ND	0.00	48.14	5245.65	5214.75
SB19	02/22/19	30.17	ND	0.00	48.15	5245.65	5215.48
SB20	02/21/14	47.62	ND	0.00	50.33	5247.52	5199.90
SB20	05/16/14	47.13	ND	0.00	50.33	5247.52	5200.39
SB20	08/27/14	46.44	ND	0.00	50.33	5247.52	5201.08
SB20	11/18/14	46.07	ND	0.00	50.33	5247.52	5201.45
SB20	02/11/15	45.94	ND	0.00	50.33	5247.52	5201.58
SB20	05/18/15	43.50	ND	0.00	48.10	5245.40	5201.90
SB20	08/25/15	43.44	ND	0.00	48.10	5245.40	5201.96
SB20	11/20/15	40.08	ND	0.00	48.10	5246.40	5206.32
SB20	02/19/16	34.31	ND	0.00	48.10	5246.40	5212.09
SB20	05/20/16	42.79	ND	0.00	51.31	5248.62	5205.83
SB20	08/12/16	44.06	ND	0.00	51.30	5248.62	5204.56
SB20	11/18/16	44.46	ND	0.00	51.34	5248.62	5204.16
SB20	02/13/17	44.19	ND	0.00	51.29	5248.62	5204.43
SB20	05/09/17	43.67	ND	0.00	51.30	5248.62	5204.95
SB20	08/22/17	43.10	ND	0.00	51.29	5248.62	5205.52
SB20	11/17/17	42.63	ND	0.00	51.29	5248.62	5205.99
SB20	02/23/18	41.99	ND	0.00	51.33	5248.62	5206.63
SB20	05/18/18	41.58	ND	0.00	51.65	5248.62	5207.04
SB20	08/24/18	41.41	ND	0.00	51.38	5248.62	5207.21
SB20	11/06/18	41.27	ND	0.00	51.36	5248.62	5207.35
SB20	02/22/19	40.96	ND	0.00	51.32	5248.62	5207.66
SB20R	02/21/14	ND	ND	0.00	61.05	5247.80	DRY
SB20R	05/16/14	ND	ND	0.00	61.05	5247.80	DRY
SB20R	08/27/14	ND	ND	0.00	61.05	5247.80	DRY
SB20R	11/18/14	60.50	ND	0.00	61.05	5247.80	5187.30
SB20R	02/11/15	59.78	ND	0.00	61.05	5247.80	5188.02
SB20R	05/18/15	58.91	ND	0.00	61.05	5247.80	5188.89
SB20R	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB21	02/21/14	47.54	46.21	1.33	49.30	5248.31	5201.77
SB21	05/16/14	47.68	45.76	1.92	49.30	5248.31	5202.07
SB21	08/27/14	ND	46.10	> 1.72	47.82	5248.31	DRY
SB21	11/18/14	ND	46.22	> 1.60	47.82	5248.31	DRY
SB21	02/11/15	ND	46.52	> 1.38	47.90	5248.31	DRY
SB21	05/18/15	45.25	44.76	0.49	45.70	5246.33	DRY
SB21	08/25/15	45.39	43.65	1.74	45.70	5246.33	DRY
SB21	11/20/15	44.63	42.25	2.38	45.70	5246.33	5203.48
SB21	02/19/16	42.85	ND	TRACE	45.70	5246.33	5203.48
SB21	05/20/16	47.44	47.01	0.43	49.15	5249.71	5202.59
SB21	08/12/16	47.26	46.26 [3]	1.00 [3]	49.14	5249.71	5203.20

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB21	11/18/16	48.13	46.96	1.17	NM	5249.71	5203.20
SB21	02/13/17	48.59	46.93	1.66	NM	5249.71	5202.36
SB21	05/09/17	49.23	47.18	2.05	49.59	5250.32	5202.63
SB21	08/22/17	49.39	46.64	2.75	NM	5250.32	5202.99
SB21	11/17/17	47.56	47.45	0.11	NM	5250.32	5202.84
SB21	02/23/18	47.95	47.14	0.81	NM	5250.32	5202.98
SB21	05/18/18	48.19	46.91	1.28	NM	5250.32	5203.09
SB21	08/24/18	48.66	47.01	1.65	49.65	5250.32	5202.90
SB21	11/06/18	49.01	47.01	2.00	49.70	5250.32	5202.81
SB21	02/22/19	48.84	48.64	0.20	NM	5250.32	5201.63
SB22	02/21/14	50.07	ND	0.00	50.30	5250.64	DRY
SB22	05/16/14	50.09	ND	0.00	50.30	5250.64	DRY
SB22	08/27/14	50.05	ND	0.00	50.30	5250.64	DRY
SB22	11/18/14	49.94	ND	0.00	50.30	5250.64	DRY
SB22	02/11/15	50.10	ND	0.00	50.30	5250.64	DRY
SB22	05/18/15	50.03	ND	0.00	50.30	5250.64	DRY
SB22	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB22R	02/21/14	50.03	ND	0.00	63.07	5250.65	5200.62
SB22R	05/16/14	50.07	ND	0.00	63.07	5250.65	5200.58
SB22R	08/27/14	49.94	ND	0.00	63.07	5250.65	5200.71
SB22R	11/18/14	49.92	ND	0.00	63.07	5250.65	5200.73
SB22R	02/11/15	50.32	ND	0.00	63.07	5250.65	5200.33
SB22R	05/18/15	47.15	ND	0.00	59.89	5247.58	5200.43
SB22R	08/25/15	48.92	ND	0.00	59.90	5247.58	5198.66
SB22R	11/20/15	46.44	ND	0.00	59.90	5248.58	5202.14
SB22R	02/19/16	45.63	ND	0.00	59.90	5248.58	5202.95
SB22R	05/20/16	49.55	ND	0.00	63.39	5251.08	5201.53
SB22R	08/12/16	49.76	ND	0.00	63.39	5251.08	5201.32
SB22R	11/18/16	49.58	ND	0.00	63.44	5251.08	5201.50
SB22R	02/13/17	49.86	ND	0.00	63.39	5251.08	5201.22
SB22R	05/09/17	49.55	ND	0.00	63.40	5251.08	5201.53
SB22R	08/22/17	49.47	ND	0.00	63.40	5251.08	5201.61
SB22R	11/17/17	48.96	ND	0.00	63.39	5251.08	5202.12
SB22R	02/23/18	49.07	ND	0.00	63.46	5251.08	5202.01
SB22R	05/18/18	48.87	ND	0.00	63.49	5251.08	5202.21
SB22R	08/24/18	48.90	ND	0.00	63.44	5251.08	5202.18
SB22R	11/06/18	48.78	ND	0.00	63.47	5251.08	5202.30
SB22R	02/22/19	49.29	ND	0.00	63.39	5251.08	5201.79
SB23	02/21/14	48.75	48.70	0.05	50.61	5249.95	5201.24
SB23	05/16/14	48.83	48.75	0.08	50.61	5249.95	5201.18
SB23	08/27/14	49.06	48.64	0.42	50.61	5249.95	5201.21
SB23	11/18/14	49.16	48.62	0.54	50.61	5249.95	5201.20
SB23	02/11/15	49.65	48.81	0.84	50.61	5249.95	5200.93
SB23	05/18/15	45.92	45.35	0.57	47.09	5246.61	5201.12
SB23	08/25/15	ND	ND	0.00	43.30	5246.61	DRY

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB23	11/20/15	ND	ND	0.00	43.30	5247.61	DRY
SB23	02/19/16	ND	ND	0.00	43.30	5247.61	DRY
SB23	05/20/16	ND	ND	0.00	41.38	5249.88	DRY
SB23	08/12/16	ND	ND	0.00	41.37	5249.88	DRY
SB23	11/18/16	ND	ND	0.00	41.41	5249.88	DRY
SB23	02/13/17	ND	ND	0.00	41.38	5249.88	DRY
SB23	05/09/17	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB23R	05/09/17	48.23	ND	0.00	60.65	5250.34	5202.11
SB23R	08/22/17	48.42	47.98	0.44	60.66	5250.34	5202.25
SB23R	11/17/17	47.39	ND	0.00	60.65	5250.34	5202.95
SB23R	02/23/18	47.81	47.50	0.31	NM	5250.34	5202.76
SB23R	05/18/18	47.78	47.35	0.43	NM	5250.34	5202.88
SB23R	08/24/18	47.63	47.16	0.47	60.65	5250.34	5203.06
SB23R	11/06/18	47.73	47.00	0.73	60.77	5250.34	5203.16
SB23R	02/22/19	48.56	47.71	0.85	NM	5250.34	5202.42
SB24	02/21/14	48.47	ND	0.00	49.82	5249.46	5200.99
SB24	05/16/14	48.35	ND	0.00	49.82	5249.46	5201.11
SB24	08/27/14	48.43	ND	0.00	49.82	5249.46	5201.03
SB24	11/18/14	48.33	ND	0.00	49.82	5249.46	5201.13
SB24	02/11/15	48.61	ND	0.00	49.82	5249.46	5200.85
SB24	05/18/15	48.66	ND	0.00	49.82	5249.46	5200.80
SB24	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB24R	02/21/14	49.08	ND	0.00	62.22	5250.04	5200.96
SB24R	05/16/14	48.86	ND	0.00	62.22	5250.04	5201.18
SB24R	08/27/14	48.96	ND	0.00	62.22	5250.04	5201.08
SB24R	11/18/14	48.85	ND	0.00	62.22	5250.04	5201.19
SB24R	02/11/15	49.20	ND	0.00	62.22	5250.04	5200.84
SB24R	05/18/15	46.90	ND	0.00	59.83	5247.80	5200.90
SB24R	08/25/15	46.78	ND	0.00	59.84	5247.80	5201.02
SB24R	11/20/15	46.52	ND	0.00	59.84	5248.80	5202.28
SB24R	02/19/16	46.38	ND	0.00	59.84	5248.80	5202.42
SB24R	05/20/16	46.19	ND	0.00	59.84	5248.80	5202.61
SB24R	08/12/16	46.52	ND	0.00	59.85	5248.80	5202.28
SB24R	11/18/16	46.51	ND	0.00	59.97	5248.80	5202.29
SB24R	02/13/17	46.39	ND	0.00	59.83	5248.80	5202.41
SB24R	05/09/17	46.13	ND	0.00	59.85	5248.80	5202.67
SB24R	08/22/17	46.17	ND	0.00	59.87	5248.80	5202.63
SB24R	11/17/17	45.51	ND	0.00	NM	5248.80	5203.29
SB24R	02/23/18	45.74	ND	0.00	NM	5248.80	5203.06
SB24R	05/18/18	45.55	ND	0.00	60.25	5248.80	5203.25
SB24R	08/24/18	45.40	ND	0.00	59.97	5248.80	5203.40
SB24R	11/06/18	Not Measured - Obstructed Access					
SB24R	02/22/19	Not Measured - Unable to locate well					
SB25	02/21/14	50.19	ND	0.00	50.41	5249.20	DRY
SB25	05/16/14	50.15	ND	0.00	50.41	5249.20	DRY

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB25	08/27/14	50.20	ND	0.00	50.41	5249.20	DRY
SB25	11/18/14	50.22	ND	0.00	50.41	5249.20	DRY
SB25	02/11/15	50.22	ND	0.00	50.41	5249.20	DRY
SB25	05/18/15	50.20	ND	0.00	50.41	5249.20	DRY
SB25	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB25R	02/21/14	51.75	ND	0.00	67.30	5249.39	5197.64
SB25R	05/16/14	51.55	ND	0.00	67.30	5249.39	5197.84
SB25R	08/27/14	51.65	ND	0.00	67.30	5249.39	5197.74
SB25R	11/18/14	51.58	ND	0.00	67.30	5249.39	5197.81
SB25R	02/11/15	51.96	ND	0.00	67.30	5249.39	5197.43
SB25R	05/18/15	49.60	ND	0.00	64.97	5247.15	5197.55
SB25R	08/25/15	49.31	ND	0.00	65.00	5247.15	5197.84
SB25R	11/20/15	48.98	ND	0.00	65.00	5248.15	5199.17
SB25R	02/19/16	48.56	ND	0.00	65.00	5248.15	5199.59
SB25R	05/20/16	48.54	ND	0.00	65.00	5248.15	5199.61
SB25R	08/12/16	48.35	ND	0.00	65.00	5248.15	5199.80
SB25R	11/18/16	47.96	ND	0.00	65.05	5248.15	5200.19
SB25R	02/13/17	48.02	ND	0.00	64.99	5248.15	5200.13
SB25R	05/09/17	47.71	ND	0.00	65.00	5248.15	5200.44
SB25R	08/22/17	47.74	ND	0.00	65.00	5248.15	5200.41
SB25R	11/17/17	47.43	ND	0.00	65.00	5248.15	5200.72
SB25R	02/23/18	47.60	ND	0.00	65.06	5248.15	5200.55
SB25R	05/18/18	47.50	ND	0.00	65.14	5248.15	5200.65
SB25R	08/24/18	47.74	ND	0.00	65.13	5248.15	5200.41
SB25R	11/06/18	47.80	ND	0.00	65.08	5248.15	5200.35
SB25R	02/22/19	47.98	ND	0.00	65.02	5248.15	5200.17
SB26	02/21/14	43.87	ND	0.00	50.35	5246.92	5203.05
SB26	05/16/14	43.65	ND	0.00	50.35	5246.92	5203.27
SB26	08/27/14	43.63	ND	0.00	50.35	5246.92	5203.29
SB26	11/18/14	43.45	ND	0.00	50.35	5246.92	5203.47
SB26	02/11/15	43.68	ND	0.00	50.35	5246.92	5203.24
SB26	05/18/15	43.59	ND	0.00	50.35	5246.92	5203.33
SB26	08/25/15	41.24	ND	0.00	48.38	5245.12	5203.88
SB26	11/20/15	40.29	ND	0.00	48.38	5246.12	5205.83
SB26	02/19/16	39.89	ND	0.00	48.38	5246.12	5206.23
SB26	05/20/16	39.62	ND	0.00	48.38	5246.12	5206.50
SB26	08/12/16	39.43	ND	0.00	48.36	5246.12	5206.69
SB26	11/18/16	38.80	ND	0.00	48.45	5246.12	5207.32
SB26	02/13/17	38.39	ND	0.00	48.28	5246.12	5207.73
SB26	05/09/17	37.94	ND	0.00	48.34	5246.12	5208.18
SB26	08/22/17	37.75	ND	0.00	48.32	5246.12	5208.37
SB26	11/17/17	36.85	ND	0.00	NM	5246.12	5209.27
SB26	02/23/18	36.57	ND	0.00	NM	5246.12	5209.55
SB26	05/18/18	36.15	ND	0.00	48.69	5246.12	5209.97
SB26	08/24/18	35.75	ND	0.00	48.48	5246.12	5210.37

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB26	11/06/18	35.22	ND	0.00	48.22	5246.12	5210.90
SB26	02/22/19	34.76	ND	0.00	48.30	5246.12	5211.36
SB27	02/21/14	50.27	ND	0.00	50.52	5250.91	DRY
SB27	05/16/14	50.29	ND	0.00	50.52	5250.91	DRY
SB27	08/27/14	50.30	ND	0.00	50.52	5250.91	DRY
SB27	11/18/14	50.30	ND	0.00	50.52	5250.91	DRY
SB27	02/11/15	50.31	ND	0.00	50.52	5250.91	DRY
SB27	05/18/15	50.29	ND	0.00	50.52	5250.91	DRY
SB27	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB27R	02/21/14	53.59	ND	0.00	67.51	5251.23	5197.64
SB27R	05/16/14	53.36	ND	0.00	67.51	5251.23	5197.87
SB27R	08/27/14	53.48	ND	0.00	67.51	5251.23	5197.75
SB27R	11/18/14	53.39	ND	0.00	67.51	5251.23	5197.84
SB27R	02/11/15	53.79	ND	0.00	67.51	5251.23	5197.44
SB27R	05/18/15	51.35	ND	0.00	65.11	5248.92	5197.57
SB27R	08/25/15	51.22	ND	0.00	65.13	5248.92	5197.70
SB27R	11/20/15	50.98	ND	0.00	65.13	5249.92	5198.94
SB27R	02/19/16	50.83	ND	0.00	65.13	5249.92	5199.09
SB27R	05/20/16	50.62	ND	0.00	65.13	5249.92	5199.30
SB27R	08/12/16	50.84	ND	0.00	65.00	5249.92	5199.08
SB27R	11/18/16	50.82	ND	0.00	65.14	5249.92	5199.10
SB27R	02/13/17	50.52	ND	0.00	64.99	5249.92	5199.40
SB27R	05/09/17	50.27	ND	0.00	64.96	5249.92	5199.65
SB27R	08/22/17	54.10	ND	0.00	64.93	5249.92	5195.82
SB27R	11/17/17	49.72	ND	0.00	64.92	5249.92	5200.20
SB27R	02/23/18	50.05	ND	0.00	65.17	5249.92	5199.87
SB27R	05/18/18	49.96	ND	0.00	65.20	5249.92	5199.96
SB27R	08/24/18	50.03	ND	0.00	64.84	5249.92	5199.89
SB27R	11/06/18	50.02	ND	0.00	65.19	5249.92	5199.90
SB27R	02/22/19	49.96	ND	0.00	64.82	5249.92	5199.96
SB28	02/21/14	50.34	ND	0.00	50.56	5251.71	DRY
SB28	05/16/14	50.35	ND	0.00	50.56	5251.71	DRY
SB28	08/27/14	50.36	ND	0.00	50.56	5251.71	DRY
SB28	11/18/14	50.36	ND	0.00	50.56	5251.71	DRY
SB28	02/11/15	50.36	ND	0.00	50.56	5251.71	DRY
SB28	05/18/15	50.34	ND	0.00	50.56	5251.71	DRY
SB28	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB28R	02/21/14	50.98	ND	0.00	63.10	5251.40	5200.42
SB28R	05/16/14	50.84	ND	0.00	63.10	5251.40	5200.56
SB28R	08/27/14	50.95	ND	0.00	63.10	5251.40	5200.45
SB28R	11/18/14	50.88	ND	0.00	63.10	5251.40	5200.52
SB28R	02/11/15	51.14	ND	0.00	63.10	5251.40	5200.26
SB28R	05/18/15	48.72	ND	0.00	60.67	5249.05	5200.33
SB28R	08/25/15	48.74	ND	0.00	60.68	5249.05	5200.31
SB28R	11/20/15	48.45	ND	0.00	60.68	5250.05	5201.60

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB28R	02/19/16	48.31	ND	0.00	60.68	5250.05	5201.74
SB28R	05/20/16	48.15	ND	0.00	60.68	5250.05	5201.90
SB28R	08/12/16	48.44	ND	0.00	60.68	5250.05	5201.61
SB28R	11/18/16	ND	ND	0.00	25.22	5250.05	DRY
SB28R	02/13/17	48.36	ND	0.00	60.66	5250.05	5201.69
SB28R	05/09/17	48.12	ND	0.00	60.68	5250.05	5201.93
SB28R	08/22/17	48.18	ND	0.00	60.69	5250.05	5201.87
SB28R	11/17/17	47.59	ND	0.00	60.69	5250.05	5202.46
SB28R	02/23/18	47.79	ND	0.00	60.80	5250.05	5202.26
SB28R	05/18/18	47.56	ND	0.00	60.97	5250.05	5202.49
SB28R	08/24/18	47.47	ND	0.00	60.46	5250.05	5202.58
SB28R	11/06/18	47.40	ND	0.00	60.81	5250.05	5202.65
SB28R	02/22/19	47.41	ND	0.00	60.69	5250.05	5202.64
SB29	02/21/14	45.24	ND	0.00	60.46	5248.09	5202.85
SB29	05/16/14	45.10	ND	0.00	60.46	5248.09	5202.99
SB29	08/27/14	45.02	ND	0.00	60.46	5248.09	5203.07
SB29	11/18/14	44.89	ND	0.00	60.46	5248.09	5203.20
SB29	02/11/15	45.09	ND	0.00	60.46	5248.09	5203.00
SB29	05/18/15	42.69	ND	0.00	58.05	5245.86	5203.17
SB29	08/25/15	42.40	ND	0.00	57.79	5245.86	5203.46
SB29	11/20/15	41.67	ND	0.00	57.79	5246.86	5205.19
SB29	02/19/16	41.16	ND	0.00	57.79	5246.86	5205.70
SB29	05/20/16	40.92	ND	0.00	57.79	5246.86	5205.94
SB29	08/12/16	41.00	ND	0.00	57.54	5246.86	5205.86
SB29	11/18/16	40.59	ND	0.00	57.69	5246.86	5206.27
SB29	02/13/17	40.28	ND	0.00	57.63	5246.86	5206.58
SB29	05/09/17	39.81	ND	0.00	57.63	5246.86	5207.05
SB29	08/22/17	39.72	ND	0.00	57.65	5246.86	5207.14
SB29	11/17/17	38.90	ND	0.00	NM	5246.86	5207.96
SB29	02/23/18	38.76	ND	0.00	NM	5246.86	5208.10
SB29	05/18/18	38.37	ND	0.00	57.94	5246.86	5208.49
SB29	08/24/18	38.03	ND	0.00	57.83	5246.86	5208.83
SB29	11/06/18	37.62	ND	0.00	57.71	5246.86	5209.24
SB29	02/22/19	37.25	ND	0.00	57.62	5246.86	5209.61
SB30	02/21/14	47.77	44.80	2.97	61.00	5246.27	5200.73
SB30	05/16/14	47.19	44.70	2.49	61.00	5246.27	5200.95
SB30	08/27/14	46.24	44.82	1.42	61.00	5246.27	5201.10
SB30	11/18/14	46.02	45.79	0.23	61.00	5246.27	5200.43
SB30	02/11/15	47.22	45.82	1.40	61.00	5246.27	5200.10
SB30	05/18/15	47.58	45.28	2.30	61.00	5246.27	5200.42
SB30	08/25/15	48.56	40.95	7.61	59.65	5245.33	5202.48
SB30	11/20/15	48.14	40.07	8.07	59.65	5246.33	5204.24
SB30	02/19/16	39.60	39.59	0.01	59.65	5246.33	5206.74
SB30	05/20/16	52.25	44.05	8.20	63.68	5249.32	5203.22
SB30	08/12/16	52.21	44.35	7.86	63.66	5249.32	5203.01

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB30	11/18/16	51.74	44.42	7.32	NM	5249.32	5203.07
SB30	02/13/17	51.19	44.70	6.49	NM	5249.32	5203.00
SB30	05/09/17	NM	NM	NM	NM	5249.32	NM
SB30	08/22/17	48.59	46.15	2.44	NM	5249.32	5202.56
SB30	11/17/17	45.35	45.22	0.13	NM	5249.32	5204.07
SB30	02/23/18	48.80	44.47	4.33	NM	5249.32	5203.77
SB30	05/18/18	49.64	45.16	4.48	NM	5249.32	5203.04
SB30	08/24/18	48.59	44.38	4.21	63.67	5249.32	5203.89
SB30	11/06/18	45.64	45.49	0.15	63.76	5249.32	5203.79
SB30	02/22/19	49.71	46.05	3.66	NM	5249.32	5202.36
SB31	02/21/14	50.11	48.01	2.10	64.30	5249.60	5201.06
SB31	05/16/14	51.47	48.07	3.40	64.30	5249.60	5200.68
SB31	08/27/14	49.65	47.72	1.93	64.30	5249.60	5201.40
SB31	11/18/14	50.76	50.36	0.40	64.30	5249.60	5199.14
SB31	02/11/15	49.88	48.94	0.94	64.30	5249.60	5200.42
SB31	05/18/15	50.22	48.44	1.78	64.30	5249.60	5200.71
SB31	08/25/15	49.39	42.84	6.55	59.26	5245.93	5201.45
SB31	11/20/15	49.95	41.61	8.34	59.26	5246.93	5203.24
SB31	02/19/16	41.09	40.96	0.13	59.26	5246.93	5205.94
SB31	05/20/16	54.20	45.00	9.20	63.13	5249.81	5202.51
SB31	08/12/16	53.61	45.16	8.45	63.10	5249.81	5202.54
SB31	11/18/16	53.22	45.13	8.09	NM	5249.81	5202.66
SB31	02/13/17	53.89	45.36	8.53	NM	5249.81	5202.32
SB31	05/09/17	NM	NM	NM	NM	5249.81	NM
SB31	08/22/17	48.38	47.62	0.76	NM	5249.81	5202.00
SB31	11/17/17	47.87	45.86	2.01	NM	5249.81	5203.45
SB31	02/23/18	47.77	47.24	0.53	NM	5249.81	5202.44
SB31	05/18/18	48.72	45.50	3.22	NM	5249.81	5203.51
SB31	08/24/18	46.50	46.33	0.17	63.14	5249.81	5203.44
SB31	11/06/18	48.14	45.98	2.16	63.27	5249.81	5203.29
SB31	02/22/19	50.01	47.79	2.22	NM	5249.81	5201.47
SB32	02/21/14	48.27	ND	0.00	62.39	5249.31	5201.04
SB32	05/16/14	48.18	ND	0.00	62.39	5249.31	5201.13
SB32	08/27/14	48.19	ND	0.00	62.39	5249.31	5201.12
SB32	11/18/14	48.38	ND	0.00	62.39	5249.31	5200.93
SB32	02/11/15	48.83	ND	0.00	62.39	5249.31	5200.48
SB32	05/18/15	45.90	ND	0.00	59.62	5246.64	5200.74
SB32	08/25/15	ND	ND	0.00	41.08	5246.64	DRY
SB32	11/20/15	ND	ND	0.00	41.08	5247.64	DRY
SB32	02/19/16	ND	ND	0.00	41.08	5247.64	DRY
SB32	05/20/16	ND	ND	0.00	42.05	5250.72	DRY
SB32	08/12/16	ND	ND	0.00	42.06	5250.72	DRY
SB32	11/18/16	ND	ND	0.00	42.14	5250.72	DRY
SB32	02/13/17	ND	ND	0.00	42.06	5250.72	DRY
SB32	05/09/17	ND	ND	0.00	42.07	5250.72	DRY
SB32	08/22/17	ND	ND	0.00	42.09	5250.72	DRY
SB32	11/17/17	ND	ND	0.00	42.07	5250.72	DRY

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB32	02/23/18	ND	ND	0.00	42.15	5250.72	DRY
SB32	05/18/18	ND	ND	0.00	42.10	5250.72	DRY
SB32	08/24/18	ND	ND	0.00	NM	5250.72	DRY
SB32	11/06/18	ND	ND	0.00	42.12	5250.72	DRY
SB32	02/22/19	ND	ND	0.00	42.10	5250.72	DRY
SB33	02/21/14	62.26	ND	0.00	62.55	5246.16	DRY
SB33	05/16/14	62.02	ND	0.00	62.55	5246.16	5184.14
SB33	08/27/14	59.51	ND	0.00	62.55	5246.16	5186.65
SB33	11/18/14	57.49	ND	0.00	62.55	5246.16	5188.67
SB33	02/11/15	55.64	ND	0.00	62.55	5246.16	5190.52
SB33	05/18/15	53.86	ND	0.00	60.39	5246.16	5192.30
SB33	08/25/15	50.35	ND	0.00	60.69	5244.21	5193.86
SB33	11/20/15	49.16	ND	0.00	60.69	5245.21	5196.05
SB33	02/19/16	47.69	ND	0.00	60.69	5245.21	5197.52
SB33	05/20/16	46.33	ND	0.00	60.69	5245.21	5198.88
SB33	08/12/16	44.47	ND	0.00	60.60	5245.21	5200.74
SB33	11/18/16	41.65	ND	0.00	60.67	5245.21	5203.56
SB33	02/13/17	39.69	ND	0.00	60.60	5245.21	5205.52
SB33	05/09/17	38.56	ND	0.00	60.60	5245.21	5206.65
SB33	08/22/17	37.57	ND	0.00	60.60	5245.21	5207.64
SB33	11/17/17	37.32	ND	0.00	NM	5245.21	5207.89
SB33	02/23/18	37.38	ND	0.00	NM	5245.21	5207.83
SB33	05/18/18	37.22	ND	0.00	60.62	5245.21	5207.99
SB33	08/24/18	37.34	ND	0.00	60.70	5245.21	5207.87
SB33	11/06/18	37.30	ND	0.00	60.66	5245.21	5207.91
SB33	02/22/19	37.15	ND	0.00	60.62	5245.21	5208.06
SB34	02/21/14	54.88	ND	0.00	62.80	5252.59	5197.71
SB34	05/16/14	54.72	ND	0.00	62.80	5252.59	5197.87
SB34	08/27/14	54.78	ND	0.00	62.80	5252.59	5197.81
SB34	11/18/14	54.65	ND	0.00	62.80	5252.59	5197.94
SB34	02/11/15	55.04	ND	0.00	62.80	5252.59	5197.55
SB34	05/18/15	52.58	ND	0.00	60.36	5250.19	5197.61
SB34	08/25/15	52.47	ND	0.00	60.40	5250.19	5197.72
SB34	11/20/15	52.19	ND	0.00	60.40	5251.19	5199.00
SB34	02/19/16	52.13	ND	0.00	60.40	5251.19	5199.06
SB34	05/20/16	51.95	ND	0.00	60.40	5251.19	5199.24
SB34	08/12/16	52.22	ND	0.00	60.38	5251.19	5198.97
SB34	11/18/16	52.17	ND	0.00	60.45	5251.19	5199.02
SB34	02/13/17	52.02	ND	0.00	60.38	5251.19	5199.17
SB34	05/09/17	51.71	ND	0.00	60.39	5251.19	5199.48
SB34	08/22/17	51.86	ND	0.00	63.80	5251.19	5199.33
SB34	11/17/17	51.17	ND	0.00	NM	5251.19	5200.02
SB34	02/23/18	51.53	ND	0.00	NM	5251.19	5199.66

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB34	05/18/18	51.40	ND	0.00	60.15	5251.19	5199.79
SB34	08/24/18	51.44	ND	0.00	60.48	5251.19	5199.75
SB34	11/06/18	51.42	ND	0.00	60.13	5251.19	5199.77
SB34	02/22/19	51.36	ND	0.00	60.40	5251.19	5199.83
SB35	02/21/14	53.18	ND	0.00	63.40	5250.71	5197.53
SB35	05/16/14	52.97	ND	0.00	63.40	5250.71	5197.74
SB35	08/27/14	53.02	ND	0.00	63.40	5250.71	5197.69
SB35	11/18/14	52.93	ND	0.00	63.40	5250.71	5197.78
SB35	02/11/15	53.35	ND	0.00	63.40	5250.71	5197.36
SB35	05/18/15	50.25	ND	0.00	60.34	5247.79	5197.54
SB35	08/25/15	49.92	ND	0.00	63.40	5247.79	5197.87
SB35	11/20/15	49.67	ND	0.00	63.40	5248.79	5199.12
SB35	02/19/16	49.45	ND	0.00	63.40	5248.79	5199.34
SB35	05/20/16	49.22	ND	0.00	63.40	5248.79	5199.57
SB35	08/12/16	49.22	ND	0.00	60.32	5248.79	5199.57
SB35	11/18/16	49.10	ND	0.00	60.35	5248.79	5199.69
SB35	02/13/17	48.87	ND	0.00	60.34	5248.79	5199.92
SB35	05/09/17	48.51	ND	0.00	60.35	5248.79	5200.28
SB35	08/22/17	48.64	ND	0.00	63.50	5248.79	5200.15
SB35	11/17/17	48.04	ND	0.00	NM	5248.79	5200.75
SB35	02/23/18	48.40	ND	0.00	NM	5248.79	5200.39
SB35	05/18/18	48.31	ND	0.00	60.49	5248.79	5200.48
SB35	08/24/18	48.50	ND	0.00	60.47	5248.79	5200.29
SB35	11/06/18	48.56	ND	0.00	60.42	5248.79	5200.23
SB35	02/22/19	48.66	ND	0.00	60.36	5248.79	5200.13
SB36	02/21/14	42.65	ND	0.00	63.05	5243.07	5200.42
SB36	05/16/14	42.40	ND	0.00	63.05	5243.07	5200.67
SB36	08/27/14	41.97	ND	0.00	63.05	5243.07	5201.10
SB36	11/18/14	41.76	ND	0.00	63.05	5243.07	5201.31
SB36	02/11/15	41.71	ND	0.00	63.05	5243.07	5201.36
SB36	05/18/15	41.45	ND	0.00	63.05	5243.07	5201.62
SB36	08/25/15	34.09	ND	0.00	59.72	5239.97	5205.88
SB36	11/20/15	32.82	ND	0.00	59.72	5240.97	5208.15
SB36	02/19/16	32.76	ND	0.00	59.75	5240.97	5208.21
SB36	05/20/16	31.31	ND	0.00	59.75	5240.97	5209.66
SB36	08/12/16	30.21	ND	0.00	59.78	5240.97	5210.76
SB36	11/18/16	29.05	ND	0.00	59.89	5240.97	5211.92
SB36	02/13/17	28.62	ND	0.00	59.68	5240.97	5212.35
SB36	05/09/17	32.32	ND	0.00	63.69	5243.94	5211.62
SB36	08/22/17	31.82	ND	0.00	63.66	5243.94	5212.12
SB36	11/17/17	30.84	ND	0.00	63.65	5243.94	5213.10
SB36	02/23/18	30.59	ND	0.00	63.73	5243.94	5213.35
SB36	05/18/18	30.52	ND	0.00	64.26	5243.94	5213.42
SB36	08/24/18	29.58	ND	0.00	63.72	5243.94	5214.36
SB36	11/06/18	29.40	ND	0.00	63.74	5243.94	5214.54
SB36	02/22/19	29.63	ND	0.00	63.64	5243.94	5214.31

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB37	02/21/14	63.00	ND	0.00	66.40	5249.25	5186.25
SB37	05/16/14	51.38	ND	0.00	66.40	5249.25	5197.87
SB37	08/27/14	48.05	ND	0.00	66.40	5249.25	5201.20
SB37	11/18/14	48.09	ND	0.00	66.40	5249.25	5201.16
SB37	02/11/15	48.36	ND	0.00	66.40	5249.25	5200.89
SB37	05/18/15	48.20	ND	0.00	66.40	5249.25	5201.05
SB37	08/25/15	46.33	ND	0.00	64.81	5246.31	5199.98
SB37	11/20/15	45.58	ND	0.00	64.81	5247.31	5201.73
SB37	02/19/16	45.44	ND	0.00	64.81	5247.31	5201.87
SB37	05/20/16	47.92	47.85	0.07	66.81	5249.79	5201.93
SB37	08/12/16	47.81	47.72	0.09	66.84	5249.79	5202.05
SB37	11/18/16	47.65	47.43	0.22	NM	5249.79	5202.31
SB37	02/13/17	48.35	47.90	0.45	NM	5249.79	5201.78
SB37	05/09/17	47.70	47.38	0.32	66.85	5249.79	5202.33
SB37	08/22/17	47.47	47.15	0.32	NM	5249.79	5202.56
SB37	11/17/17	47.06	46.87	0.19	NM	5249.79	5202.88
SB37	02/23/18	47.20	46.72	0.48	NM	5249.79	5202.95
SB37	05/18/18	47.08	46.65	0.43	NM	5249.79	5203.04
SB37	08/24/18	47.00	46.48	0.52	66.83	5249.79	5203.18
SB37	11/06/18	46.76	46.29	0.47	66.91	5249.79	5203.39
SB37	02/22/19	47.65	47.22	0.43	NM	5249.79	5202.46
SB38	02/21/14	40.48	ND	0.00	63.58	5243.61	5203.13
SB38	05/16/14	40.16	ND	0.00	63.58	5243.61	5203.45
SB38	08/27/14	40.32	ND	0.00	63.58	5243.61	5203.29
SB38	11/18/14	40.08	ND	0.00	63.58	5243.61	5203.53
SB38	02/11/15	40.35	ND	0.00	63.58	5243.61	5203.26
SB38	05/18/15	40.31	ND	0.00	63.58	5243.61	5203.30
SB38	08/25/15	35.63	ND	0.00	60.51	5240.73	5205.10
SB38	11/20/15	34.68	ND	0.00	60.51	5241.73	5207.05
SB38	02/19/16	34.39	ND	0.00	60.42	5241.73	5207.34
SB38	05/20/16	33.19	ND	0.00	60.42	5241.73	5208.54
SB38	08/12/16	31.54	ND	0.00	60.34	5241.73	5210.19
SB38	11/18/16	30.69	ND	0.00	60.61	5241.73	5211.04
SB38	02/13/17	29.97	ND	0.00	60.28	5241.73	5211.76
SB38	05/09/17	33.85	ND	0.00	64.49	5244.87	5211.02
SB38	08/22/17	33.49	ND	0.00	64.45	5244.87	5211.38
SB38	11/17/17	32.34	ND	0.00	64.46	5244.87	5212.53
SB38	02/23/18	32.12	ND	0.00	64.75	5244.87	5212.75
SB38	05/18/18	31.97	ND	0.00	64.55	5244.87	5212.90
SB38	08/24/18	31.23	ND	0.00	64.51	5244.87	5213.64
SB38	11/06/18	30.89	ND	0.00	64.48	5244.87	5213.98
SB38	02/22/19	30.90	ND	0.00	64.39	5244.87	5213.97
SB39	02/21/14	50.54	ND	0.00	61.57	5241.88	5191.34
SB39	05/16/14	45.38	ND	0.00	61.57	5241.88	5196.50
SB39	08/27/14	44.19	ND	0.00	61.57	5241.88	5197.69
SB39	11/18/14	43.98	ND	0.00	61.57	5241.88	5197.90
SB39	02/11/15	44.01	ND	0.00	61.57	5241.88	5197.87

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB39	05/18/15	43.74	ND	0.00	61.57	5241.88	5198.14
SB39	08/25/15	36.44	ND	0.00	59.14	5239.65	5203.21
SB39	11/20/15	36.68	ND	0.00	59.14	5240.65	5203.97
SB39	02/19/16	36.05	ND	0.00	59.11	5240.65	5204.60
SB39	05/20/16	31.67	ND	0.00	59.11	5240.65	5208.98
SB39	08/12/16	30.51	ND	0.00	59.12	5240.65	5210.14
SB39	11/18/16	29.46	ND	0.00	59.15	5240.65	5211.19
SB39	02/13/17	28.66	ND	0.00	59.04	5240.65	5211.99
SB39	05/09/17	32.64	ND	0.00	63.23	5243.84	5211.20
SB39	08/22/17	32.38	ND	0.00	63.13	5243.84	5211.46
SB39	11/17/17	31.64	ND	0.00	63.20	5243.84	5212.20
SB39	02/23/18	31.53	ND	0.00	63.39	5243.84	5212.31
SB39	05/18/18	31.53	ND	0.00	63.95	5243.84	5212.31
SB39	08/24/18	30.48	ND	0.00	63.27	5243.84	5213.36
SB39	11/06/18	30.54	ND	0.00	63.36	5243.84	5213.30
SB39	02/22/19	30.91	ND	0.00	63.15	5243.84	5212.93
SB40	02/21/14	54.94	ND	0.00	62.83	5240.63	5185.69
SB40	05/16/14	45.58	ND	0.00	62.83	5240.63	5195.05
SB40	08/27/14	40.55	ND	0.00	62.83	5240.63	5200.08
SB40	11/18/14	40.14	ND	0.00	62.83	5240.63	5200.49
SB40	02/11/15	39.79	ND	0.00	62.83	5240.63	5200.84
SB40	05/18/15	38.77	ND	0.00	62.83	5240.63	5201.86
SB40	08/25/15	32.11	ND	0.00	59.71	5237.59	5205.48
SB40	11/20/15	30.30	ND	0.00	59.71	5238.59	5208.29
SB40	02/19/16	28.98	ND	0.00	59.04	5238.59	5209.61
SB40	05/20/16	27.41	ND	0.00	59.04	5238.59	5211.18
SB40	08/12/16	25.87	ND	0.00	58.95	5238.59	5212.72
SB40	11/18/16	25.24	ND	0.00	58.98	5238.59	5213.35
SB40	02/13/17	24.98	ND	0.00	58.82	5238.59	5213.61
SB40	05/09/17	29.16	ND	0.00	62.89	5241.74	5212.58
SB40	08/22/17	28.02	ND	0.00	62.82	5241.74	5213.72
SB40	11/17/17	26.90	ND	0.00	NM	5241.74	5214.84
SB40	02/23/18	27.26	ND	0.00	NM	5241.74	5214.48
SB40	05/18/18	27.10	ND	0.00	63.25	5241.74	5214.64
SB40	08/24/18	25.66	ND	0.00	62.86	5241.74	5216.08
SB40	11/06/18	26.09	ND	0.00	62.94	5241.74	5215.65
SB40	02/22/19	26.68	ND	0.00	62.71	5241.74	5215.06
SB41	02/21/14	39.90	ND	0.00	62.96	5242.91	5203.01
SB41	05/16/14	39.66	ND	0.00	62.96	5242.91	5203.25
SB41	08/27/14	39.75	ND	0.00	62.96	5242.91	5203.16
SB41	11/18/14	39.59	ND	0.00	62.96	5242.91	5203.32
SB41	02/11/15	39.79	ND	0.00	62.96	5242.91	5203.12
SB41	05/18/15	39.77	ND	0.00	62.96	5242.91	5203.14
SB41	08/25/15	35.69	ND	0.00	59.89	5239.96	5204.27
SB41	11/20/15	34.89	ND	0.00	59.89	5240.96	5206.07
SB41	02/19/16	34.51	ND	0.00	59.84	5240.96	5206.45
SB41	05/20/16	33.31	ND	0.00	59.84	5240.96	5207.65

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB41	08/12/16	31.29	ND	0.00	59.60	5240.96	5209.67
SB41	11/18/16	30.45	ND	0.00	59.74	5240.96	5210.51
SB41	02/13/17	29.82	ND	0.00	59.60	5240.96	5211.14
SB41	05/09/17	33.68	ND	0.00	63.80	5244.16	5210.48
SB41	08/22/17	33.34	ND	0.00	63.80	5244.16	5210.82
SB41	11/17/17	32.09	ND	0.00	NM	5244.16	5212.07
SB41	02/23/18	31.85	ND	0.00	NM	5244.16	5212.31
SB41	05/18/18	31.67	ND	0.00	63.97	5244.16	5212.49
SB41	08/24/18	30.98	ND	0.00	64.00	5244.16	5213.18
SB41	11/06/18	30.60	ND	0.00	63.94	5244.16	5213.56
SB41	02/22/19	30.55	ND	0.00	63.79	5244.16	5213.61
SB42	02/21/14	41.20	ND	0.00	60.60	5244.36	5203.16
SB42	05/16/14	40.68	ND	0.00	60.60	5244.36	5203.68
SB42	08/27/14	40.80	ND	0.00	60.60	5244.36	5203.56
SB42	11/18/14	40.57	ND	0.00	60.60	5244.36	5203.79
SB42	02/11/15	40.78	ND	0.00	60.60	5244.36	5203.58
SB42	05/18/15	40.74	ND	0.00	60.60	5244.36	5203.62
SB42	08/25/15	38.61	ND	0.00	59.23	5243.19	5204.58
SB42	11/20/15	37.53	ND	0.00	59.23	5244.19	5206.66
SB42	02/19/16	37.18	ND	0.00	59.21	5244.19	5207.01
SB42	05/20/16	36.85	ND	0.00	59.21	5244.19	5207.34
SB42	08/12/16	36.35	ND	0.00	59.22	5244.19	5207.84
SB42	11/18/16	35.59	ND	0.00	59.30	5244.19	5208.60
SB42	02/13/17	35.15	ND	0.00	59.23	5244.19	5209.04
SB42	05/09/17	34.69	ND	0.00	59.22	5244.19	5209.50
SB42	08/22/17	34.40	ND	0.00	59.22	5244.19	5209.79
SB42	11/17/17	33.53	ND	0.00	NM	5244.19	5210.66
SB42	02/23/18	33.13	ND	0.00	NM	5244.19	5211.06
SB42	05/18/18	32.64	ND	0.00	59.43	5244.19	5211.55
SB42	08/24/18	32.21	ND	0.00	59.34	5244.19	5211.98
SB42	11/06/18	31.60	ND	0.00	59.31	5244.19	5212.59
SB42	02/22/19	Not Measured - Unable to locate well					

Notes:

DTW = Depth to water

DTP = Depth to Product (LNAPL)

ft. BTOC = Feet below top of well casing

ft. AMSL = Feet above mean sea level

TD = Total depth of well below top of well casing (based on the most recent measurement)

LNAPL = Light non-aqueous phase liquid

ND = Not detected

NM = Not measured

DRY = Well contained less than 0.5 feet of water

* Groundwater elevation was corrected for product thickness when present using the following calculation:

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

LNAPL relative density was measured to be approximately 0.75

[1] LNAPL detected in groundwater sample collected on 02/22/16

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD[4] (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)

[2] Well SB16R obstructed above oil/water interface, groundwater not encountered above obstruction

[3] LNAPL thickness is approximate, checked with bailer

[4] Total Depth of Well is only measured for wells that are to be sampled.

This table presents data collected by Tasman Geosciences. Historical data is presented in Attachment A of the Form 27 Site Assessment Report (COGCC Document #2148980)

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
PR01	03/07/14 [1]	10.98	6.960	6.63	-132.0	14.60
PR01	05/19/14	Removed From Groundwater Monitoring Program - LNAPL Recovery Well				
PR02	03/07/14 [1]	10.09	5.560	6.71	-72.9	11.56
PR02	05/19/14	Removed From Groundwater Monitoring Program - LNAPL Recovery Well				
PR03	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR04	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR05	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR06	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR07	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR08	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR09	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR10	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR11	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR12	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR13	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR14	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR15	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR16	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR17	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR18	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR19	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR20	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR21	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR22	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR23	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR24	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR25	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
PR26	11/21/14	Not in Groundwater Monitoring Program - LNAPL Recovery Well				
SB01	02/24/14	12.41	5.240	7.16	92.2	0.56
SB01	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen				
SB01	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB02	02/24/14	12.52	3.222	7.25	47.1	0.25
SB02	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen				
SB02	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB03	02/24/14	12.55	1.941	7.44	70.0	0.21
SB03	05/19/14	12.57	2.135	7.00	207.5	1.61
SB03	08/29/14	12.41	2.004	7.39	126.0	0.03
SB03	11/21/14	12.53	2.188	8.08	-182.9	0.96
SB03	02/13/15	12.34	1.881	7.30	27.6	0.60
SB03	05/21/15	12.20	1.814	7.09	158.8	0.55
SB03	08/27/15	12.61	2.068	7.28	12.0	0.20
SB03	11/24/15	12.01	2.139	6.65	-15.4	0.47
SB03	02/22/16	12.22	2.363	7.68	-49.4	0.23
SB03	05/23/16	12.46	2.380	7.06	-36.4	0.28
SB03	08/15/16	13.21	2.151	7.33	100.1	0.22
SB03	11/21/16	12.20	2.394	7.31	-1.8	0.93
SB03	02/16/17	12.40	3.026	7.34	112.6	0.50
SB03	05/09/17	16.55	3.030	6.68	96.6	2.13
SB03	08/24/17	13.52	2.980	7.72	97.6	0.03
SB03	11/20/17	13.40	3.100	6.96	125.6	4.72

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB03	02/26/18	11.67	3.290	7.28	39.0	4.90
SB03	05/21/18	15.41	2.870	7.21	68.4	3.56
SB03	08/27/18	13.98	2.620	6.97	47.2	3.29
SB03	11/09/18	12.51	1.880	7.37	4.0	20.70
SB03	02/25/19	11.64	2.580	7.79	190.4	1.93
SB04	02/24/14	12.00	3.138	7.29	71.3	0.16
SB04	05/19/14	12.81	3.097	7.08	224.5	0.45
SB04	08/29/14	12.37	3.083	7.65	155.6	0.16
SB04	11/21/14	12.29	3.076	7.60	-7.6	0.47
SB04	02/13/15	12.34	3.018	7.34	50.5	0.99
SB04	05/21/15	12.24	2.953	7.06	120.8	0.36
SB04	08/27/15	12.69	3.054	7.84	52.7	0.13
SB04	11/24/15	12.11	2.198	6.77	-64.4	0.27
SB04	02/22/16	12.15	2.317	7.31	-120.9	0.23
SB04	05/23/16	12.55	2.363	6.56	-166.8	1.07
SB04	08/15/16	12.45	2.597	7.33	-58.5	0.81
SB04	11/21/16	12.16	2.131	7.20	-112.0	0.25
SB04	02/16/17	12.30	3.003	7.40	-76.4	0.60
SB04	05/09/17	17.47	1.830	7.28	-90.4	0.56
SB04	08/24/17	13.40	2.070	7.69	-184.2	0.03
SB04	11/20/17	13.50	2.170	7.29	-160.9	0.25
SB04	02/26/18	11.22	2.350	7.41	55.0	0.14
SB04	05/21/18	17.43	2.120	7.50	-111.7	0.31
SB04	08/27/18	14.92	2.560	7.01	-131.1	0.17
SB04	11/09/18	12.06	1.625	7.53	-69.2	0.77
SB04	02/25/19	10.88	2.280	7.91	-174.8	0.78
SB05	03/07/14 [1]	11.20	6.192	6.43	-152.9	3.55
SB05	05/19/14	Not Measured - LNAPL Present				
SB05	08/29/14	Not Measured - LNAPL Present				
SB05	11/21/14	Not Measured - LNAPL Present				
SB05	02/13/15	Not Measured - LNAPL Present				
SB05	05/21/15	Not Measured - LNAPL Present				
SB05	08/27/15	Not Measured - LNAPL Present				
SB05	11/24/15	Not Measured - LNAPL Present				
SB05	02/22/16	Not Measured - LNAPL Present				
SB05	05/23/16	Not Measured - LNAPL Present				
SB05	08/15/16	Not Measured - LNAPL Present				
SB05	11/21/16	Not Measured - LNAPL Present				
SB05	02/16/17	Not Measured - LNAPL Present				
SB05	05/09/17	Not Measured - LNAPL Present				
SB05	08/24/17	Not Measured - LNAPL Present				
SB05	11/20/17	Not Measured - LNAPL Present				
SB05	02/26/18	Not Measured - LNAPL Present				
SB05	05/21/18	Not Measured - LNAPL Present				
SB05	08/27/18	Not Measured - LNAPL Present				
SB05	11/09/18	Not Measured - LNAPL Present				
SB05	02/25/19	Not Measured - LNAPL Present				

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB06	02/24/14	12.57	3.446	7.20	144.4	0.34
SB06	05/19/14	12.74	3.933	6.99	268.9	0.19
SB06	08/29/14	12.54	3.952	7.22	156.0	0.04
SB06	11/21/14	12.46	3.767	7.60	153.6	2.25
SB06	02/13/15	12.48	3.879	6.99	54.2	0.22
SB06	05/21/15	12.52	3.765	6.91	3.4	0.08
SB06	08/27/15	12.51	5.039	7.17	101.4	0.12
SB06	11/24/15	12.19	5.367	6.62	1.2	0.38
SB06	02/22/16	12.31	5.379	7.03	-10.6	3.50
SB06	05/23/16	12.47	5.721	6.41	113.8	0.73
SB06	08/15/16	12.98	5.983	6.81	147.5	0.26
SB06	11/21/16	12.22	5.782	6.77	12.8	0.70
SB06	02/16/17	12.40	5.896	6.83	165.4	0.28
SB06	05/09/17	17.13	5.090	6.86	91.9	1.10
SB06	08/24/17	14.84	5.480	7.22	135.8	0.69
SB06	11/20/17	13.14	5.510	6.80	42.8	0.36
SB06	02/26/18	12.10	5.520	6.94	36.8	0.53
SB06	05/21/18	16.30	5.230	6.90	77.9	0.66
SB06	08/27/18	13.52	5.240	6.66	33.5	0.40
SB06	11/09/18	12.51	3.798	7.12	43.4	1.76
SB06	02/25/19	11.66	4.890	7.62	83.6	2.01
SB07	02/24/14	12.85	5.639	6.64	-101.3	0.57
SB07	05/19/14	13.19	5.564	6.68	-97.3	0.19
SB07	08/29/14	12.99	5.318	7.18	-68.5	0.05
SB07	11/21/14	12.88	5.280	7.10	-238.1	1.22
SB07	02/13/15	12.71	5.083	7.11	-76.8	1.69
SB07	05/21/15	12.85	5.033	7.01	-175.8	0.09
SB07	08/27/15	12.92	4.059	8.47	-216.8	0.16
SB07	11/24/15	12.70	2.305	12.49 [2]	-248.3	0.19
SB07	02/22/16	12.80	1.896	6.99	-264.9	-0.40 [3]
SB07	05/23/16	13.25	2.450	7.12	-241.0	-0.1 [3]
SB07	08/15/16	13.64	2.511	7.03	-126.6	0.17
SB07	11/21/16	12.74	3.010	7.05	-86.8	0.19
SB07	02/16/17	12.90	3.980	7.20	-108.9	0.33
SB07	05/09/17	17.76	2.710	6.90	-87.5	0.35
SB07	08/24/17	16.15	3.040	7.31	-176.2	0.02
SB07	11/20/17	14.18	3.480	6.81	-169.2	0.08
SB07	02/26/18	11.33	4.020	7.18	-60.3	0.46
SB07	05/21/18	17.62	4.020	6.95	-130.1	0.08
SB07	08/27/18	13.84	4.430	6.93	-124.9	0.12
SB07	11/09/18	12.77	3.901	7.49	-66.6	0.59
SB07	02/25/19	12.39	5.190	7.72	-159.9	0.06

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB08	03/07/14 [1]	11.12	4.866	6.29	-170.9	3.95
SB08	05/19/14	13.39	5.197	6.80	-153.5	0.33
SB08	08/29/14	12.92	5.358	6.68	-74.4	0.34
SB08	11/21/14	Not Measured - LNAPL Present				
SB08	02/13/15	Not Measured - LNAPL Present				
SB08	05/21/15	Not Measured - LNAPL Present				
SB08	08/27/15	13.05	3.466	8.00	-187.6	0.07
SB08	11/24/15	Not Measured - LNAPL Present				
SB08	02/22/16	12.67	0.577	6.85	-197.4	-0.34 [3]
SB08	05/23/16	13.23	1.630	6.73	-220.2	0.23
SB08	08/15/16	12.84	1.574	6.93	-97.7	0.25
SB08	11/21/16	12.69	2.008	6.80	-88.8	0.34
SB08	02/16/17	12.90	4.557	7.00	-175.9	0.33
SB08	05/09/17	18.69	1.870	6.81	-84.63	0.32
SB08	08/24/17	16.18	2.090	7.25	-153.2	0.06
SB08	11/20/17	14.23	2.150	6.87	-134.0	0.05
SB08	02/26/18	11.39	3.050	6.90	-61.9	0.34
SB08	05/21/18	16.45	2.570	6.94	-114.6	0.13
SB08	08/27/18	14.89	4.200	6.65	-197.8	0.11
SB08	11/09/18	12.89	3.720	7.43	-134.4	0.66
SB08	02/25/19	13.03	2.740	7.80	-156.3	0
SB09	03/07/14 [1]	10.00	4.415	6.64	-123.5	8.81
SB09	05/19/14	Not Measured - LNAPL Present				
SB09	08/29/14	Not Measured - LNAPL Present				
SB09	11/21/14	Not Measured - LNAPL Present				
SB09	02/13/15	Not Measured - LNAPL Present				
SB09	05/21/15	Not Measured - LNAPL Present				
SB09	08/27/15	Not Measured - LNAPL Present				
SB09	11/24/15	Not Measured - LNAPL Present				
SB09	02/22/16	Not Measured - LNAPL Present				
SB09	05/23/16	Not Measured - LNAPL Present				
SB09	08/15/16	Not Measured - LNAPL Present				
SB09	11/21/16	Not Measured - LNAPL Present				
SB09	02/16/17	Not Measured - LNAPL Present				
SB09	05/09/17	Not Measured - LNAPL Present				
SB09	08/24/17	Not Measured - LNAPL Present				
SB09	11/20/17	Not Measured - LNAPL Present				
SB09	02/26/18	Not Measured - LNAPL Present				
SB09	05/21/18	Not Measured - LNAPL Present				
SB09	08/27/18	Not Measured - LNAPL Present				
SB09	11/09/18	Not Measured - LNAPL Present				
SB09	02/25/19	12.74	5.28	7.52	-117.7	0.55
SB10	03/07/14 [1]	11.48	8.344	6.31	-183.9	5.90

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB10	05/19/14	13.26	9.942	6.35	-158.5	0.14
SB10	08/29/14	Not Measured - LNAPL Present				
SB10	11/21/14	12.85	11.050	6.57	-136.7	0.38
SB10	02/13/15	12.91	11.395	6.51	-7.3	0.72
SB10	05/21/15	Not Measured - LNAPL Present				
SB10	08/27/15	13.90	12.480	7.85	-134.40	0.28
SB10	11/24/15	12.79	13.700	11.82 [2]	-215.20	0.11
SB10	02/22/16	12.80	1.982	6.77	-249.90	-0.70 [3]
SB10	05/23/16	13.33	5.112	6.56	-192.50	0.16
SB10	08/15/16	14.06	7.100	6.66	-87.70	0.17
SB10	11/21/16	12.84	8.444	6.47	-100.8	0.29
SB10	02/16/17	12.90	9.152	6.61	-128.3	0.39
SB10	05/09/17	18.69	7.950	6.55	-72.8	0.43
SB10	08/24/17	15.75	8.750	6.93	-186.1	0.01
SB10	11/20/17	13.62	9.120	6.65	-195.4	0.03
SB10	02/26/18	11.37	9.950	6.74	-91.5	0.35
SB10	05/21/18	17.91	5.420	6.57	-171.2	0.27
SB10	08/27/18	15.07	8.520	6.93	-262.3	0.13
SB10	11/09/18	12.99	4.622	7.16	-148.3	0.91
SB10	02/25/19	13.01	6.150	7.55	-216.7	0.05
SB11	02/24/14	12.60	2.218	7.38	20.2	0.49
SB11	05/19/14	13.03	2.312	7.25	130.9	6.69
SB11	08/29/14	12.65	2.423	7.49	118.1	0.10
SB11	11/21/14	12.49	2.524	7.39	-104.9	0.65
SB11	02/13/15	12.54	2.548	7.23	28.2	0.30
SB11	05/21/15	12.57	2.712	7.07	-2.5	0.11
SB11	08/27/15	12.55	2.787	8.21	-117.6	0.11
SB11	11/24/15	12.23	2.778	6.87	-35.7	0.26
SB11	02/22/16	12.37	2.840	7.25	-79.9	0.40
SB11	05/23/16	12.55	2.953	5.10 [2]	134.2	0.31
SB11	08/15/16	12.64	2.953	7.09	51.2	0.26
SB11	11/21/16	12.27	2.852	7.02	-11.6	0.92
SB11	02/16/17	12.40	2.838	7.16	-77.3	0.40
SB11	05/09/17	16.51	2.350	6.84	95.8	1.09
SB11	08/24/17	18.76	2.320	7.72	73.2	0.20
SB11	11/20/17	14.22	2.690	7.06	38.0	0.29
SB11	02/26/18	11.63	2.870	7.26	18.0	0.55
SB11	05/21/18	17.35	2.730	7.33	26.0	1.52
SB11	08/27/18	14.92	2.870	6.89	-65.2	0.25
SB11	11/09/18	12.56	2.150	7.47	-23.4	0.98
SB11	02/25/19	11.59	2.920	7.86	-135.3	0.42
SB12	02/24/14	12.86	5.748	7.17	70.2	2.79
SB12	05/19/14	12.68	5.941	7.31	137.2	0.20
SB12	08/29/14	12.46	5.920	7.46	159.6	0.17
SB12	11/21/14	12.41	5.969	7.75	177.3	1.22
SB12	02/13/15	12.33	5.842	7.35	53.5	0.33
SB12	05/21/15	12.35	5.566	7.13	17.6	0.39

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB12	08/27/15	12.47	5.864	7.52	87.4	0.33
SB12	11/24/15	11.96	5.667	6.74	44.1	0.56
SB12	02/22/16	12.14	5.649	7.52	16.5	0.34
SB12	05/23/16	12.35	5.561	7.15	87.9	4.5
SB12	08/15/16	12.63	5.643	7.36	167.5	0.19
SB12	11/21/16	12.09	5.682	7.40	-11.0	0.09
SB12	02/16/17	12.20	5.709	7.49	166.7	0.60
SB12	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB12	08/24/17	16.02	7.720	7.92	8.10	0.51
SB12	11/20/17	14.45	3.610	6.89	-138.0	0.14
SB12	02/26/18	12.21	4.430	7.56	-14.1	0.15
SB12	05/21/18	14.94	5.550	7.43	-69.3	0.02
SB12	08/27/18	13.58	5.720	7.11	-111.3	0.13
SB12	11/09/18	12.36	3.293	7.67	-16.9	1.09
SB12	02/25/19	12.33	4.430	8.12	-192.8	0.05
SB13	02/24/14	12.72	3.556	7.98	23.5	0.16
SB13	05/19/14	13.75	4.699	7.52	202.2	0.14
SB13	08/29/14	12.89	4.605	7.58	154.6	0.10
SB13	11/21/14	12.75	4.651	7.83	164.4	1.37
SB13	02/13/15	12.65	4.861	7.35	42.9	0.41
SB13	05/21/15	12.72	4.708	7.10	-10.9	0.10
SB13	08/27/15	12.70	4.958	7.54	44.1	0.07
SB13	11/24/15	12.41	5.028	6.54	59.7	0.45
SB13	02/22/16	12.59	4.902	7.15	-29.5	0.25
SB13	05/23/16	13.14	5.040	7.10	-154.3	0.14
SB13	08/15/16	13.90	4.547	6.87	76.5	0.39
SB13	11/21/16	12.49	4.885	6.85	-9.5	0.42
SB13	02/16/17	12.60	5.213	7.30	-30.4	0.64
SB13	05/09/17	17.65	4.350	6.97	-36.7	1.04
SB13	08/24/17	14.22	4.790	7.36	-94.4	0.18
SB13	11/20/17	13.24	5.110	6.92	-106.0	0.27
SB13	02/26/18	11.83	5.420	7.12	-22.7	0.26
SB13	05/21/18	16.55	5.170	7.05	-61.1	0.15
SB13	08/27/18	14.02	5.230	6.83	-63.7	0.13
SB13	11/09/18	12.62	3.844	7.36	-13.8	1.00
SB13	02/25/19	11.67	5.380	7.80	-156.0	0.19
SB14	02/24/14	12.91	2.000	7.29	63.6	0.15
SB14	05/19/14	12.99	2.071	6.96	62.0	0.13
SB14	08/29/14	12.87	2.051	7.17	5.2	0.22
SB14	11/21/14	12.72	2.063	7.48	-122.5	0.51
SB14	02/13/15	12.77	1.977	7.10	-52.0	0.50
SB14	05/21/15	12.83	1.979	7.01	-122.2	0.18
SB14	08/27/15	12.78	2.079	8.30	-148.2	0.08
SB14	11/24/15	12.65	1.896	10.77 [2]	-125.3	0.51
SB14	02/22/16	12.66	1.890	7.25	-234.1	0.33
SB14	05/23/16	13.15	1.985	6.95	-228.7	0.05
SB14	08/15/16	13.88	2.674	7.09	-83.5	0.20

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB14	11/21/16	12.61	2.154	6.87	-56.4	1.91
SB14	02/16/17	12.70	2.245	7.00	-81.4	0.60
SB14	05/09/17	16.54	1.950	6.69	-35.6	0.38
SB14	08/24/17	17.38	1.990	7.51	-133.5	0.03
SB14	11/20/17	13.22	2.240	7.06	-123.2	0.11
SB14	02/26/18	11.30	2.500	7.07	-9.8	0.30
SB14	05/21/18	19.46	2.430	7.03	-35.4	0.87
SB14	08/27/18	16.39	2.400	6.76	-85.9	0.25
SB14	11/09/18	12.67	1.902	7.49	-17.6	1.00
SB14	02/25/19	11.63	2.650	7.67	21.6	1.24
SB15	02/24/14	12.50	3.080	6.97	-204.4	0.33
SB15	05/19/14	13.42	2.698	6.67	-46.9	0.60
SB15	08/29/14	12.91	2.588	6.92	17.6	0.57
SB15	11/21/14	12.55	2.404	6.97	-156.4	0.81
SB15	02/13/15	12.13	2.526	6.97	-47.2	1.12
SB15	05/21/15	12.74	1.857	6.98	-124.0	0.13
SB15	08/27/15	13.06	0.025	7.56	-62.2	9.29
SB15	11/24/15	12.55	1.124	10.12 [2]	-88.3	0.29
SB15	02/22/16	12.52	1.089	7.54	-79.5	0.20
SB15	05/23/16	12.87	2.028	6.83	-178.8	0.12
SB15	08/15/16	13.03	2.481	6.88	-8.6	0.20
SB15	11/21/16	12.61	2.891	6.79	-30.2	0.22
SB15	02/16/17	13.00	3.557	6.94	-3.1	0.16
SB15	05/09/17	16.39	3.490	6.86	95.7	0.20
SB15	08/24/17	18.43	2.860	7.36	-94.0	0.07
SB15	11/20/17	13.90	4.130	6.81	86.9	0.47
SB15	02/26/18	11.51	4.410	6.77	43.2	1.12
SB15	05/21/18	16.61	4.180	6.70	73.4	0.74
SB15	08/27/18	14.77	4.170	6.49	48.6	0.20
SB15	11/09/18	12.71	3.227	7.21	-11.4	0.66
SB15	02/25/19	11.97	4.480	7.61	26.3	0.35
SB16	02/24/14	Not Measured - Insufficient Water				
SB16	05/19/14	Not Measured - Insufficient Water				
SB16	08/29/14	Not Measured - Insufficient Water				
SB16	11/21/14	Not Measured - Insufficient Water				
SB16	02/13/15	Not Measured - Insufficient Water				
SB16	05/21/15	Not Measured - Insufficient Water				
SB16	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB16R	03/07/14 [1]	10.84	3.736	6.84	-97.4	9.04
SB16R	05/19/14	12.95	4.355	7.15	-28.9	0.60
SB16R	08/29/14	Not Measured - LNAPL Present				
SB16R	11/21/14	Not Measured - LNAPL Present				
SB16R	02/13/15	Not Measured - LNAPL Present				
SB16R	05/21/15	Not Measured - LNAPL Present				
SB16R	08/27/15	Not Measured - LNAPL Present				
SB16R	11/24/15	Not Measured - LNAPL Present				
SB16R	02/22/16	Not Measured - LNAPL Present				

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB16R	05/23/16	Not Measured - LNAPL Present				
SB16R	08/15/16	Not Measured - LNAPL Present				
SB16R	11/21/16	Not Measured - LNAPL Present				
SB16R	02/16/17	Not Measured - LNAPL Present				
SB16R	05/09/07	Not Measured - Well Damaged and Removed from Monitoring Program				
SB16R2	08/24/17	19.10	4.18	7.66	-56.3	0.03
SB16R2	11/20/17	Not Measured - LNAPL Present				
SB16R2	02/27/18	Not Measured - LNAPL Present				
SB16R2	05/21/18	Not Measured - LNAPL Present				
SB16R2	08/27/18	Not Measured - LNAPL Present				
SB16R2	11/09/18	Not Measured - LNAPL Present				
SB16R2	02/25/19	Not Measured - LNAPL Present				
SB17	02/24/14	12.27	5.859	7.17	49.0	1.01
SB17	05/19/14	13.08	5.904	7.15	155.9	0.38
SB17	08/29/14	12.79	5.908	7.49	158.3	0.27
SB17	11/21/14	12.68	5.913	7.53	135.9	0.99
SB17	02/13/15	12.57	5.832	7.19	38.5	0.32
SB17	05/21/15	12.67	5.643	7.06	-13.9	0.67
SB17	08/27/15	12.67	5.729	7.57	51.0	0.95
SB17	11/24/15	12.29	5.647	6.77	52.5	2.33
SB17	02/22/16	12.38	5.734	7.37	9.6	0.26
SB17	05/23/16	12.83	5.683	7.20	38.7	0.20
SB17	08/15/16	12.99	5.710	7.30	171.8	0.63
SB17	11/21/16	12.40	5.724	7.34	8.4	0.41
SB17	02/16/17	12.50	5.834	7.34	112.0	0.31
SB17	05/09/17	16.96	4.930	7.16	49.3	0.35
SB17	08/24/17	18.35	5.300	7.62	10.5	0.02
SB17	11/20/17	13.90	5.360	7.05	-34.3	0.10
SB17	02/26/18	11.33	5.920	7.36	35.9	0.19
SB17	05/21/18	16.45	5.590	7.29	-49.5	0.07
SB17	08/27/18	13.62	5.860	7.07	26.4	0.12
SB17	11/09/18	12.43	4.163	7.58	3.0	1.10
SB17	02/25/19	12.47	5.610	8.01	-175.3	0.19
SB18	02/24/14	12.56	5.622	7.18	59.6	0.50
SB18	05/19/14	12.84	5.669	7.13	169.2	0.41
SB18	08/29/14	12.98	5.644	7.38	13.4	0.07
SB18	11/21/14	12.54	5.812	7.43	-72.9	0.95
SB18	02/13/15	12.53	5.597	7.19	24.8	0.37
SB18	05/21/15	12.49	2.299	7.08	-69.0	0.16
SB18	08/27/15	12.72	4.188	8.15	-129.6	0.14
SB18	11/24/15	12.28	5.283	6.68	20.9	0.29
SB18	02/22/16	12.33	5.263	7.33	-46.8	0.21
SB18	05/23/16	12.80	5.221	7.11	-19.7	0.68
SB18	08/15/16	12.95	5.464	7.13	117.1	0.81
SB18	11/21/16	12.39	5.533	7.20	6.9	0.17
SB18	02/16/17	12.50	5.620	7.31	17.6	0.38
SB18	05/09/17	17.17	4.600	6.88	-58.5	0.45

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB18	08/24/17	Not Measured - Removed From Groundwater Monitoring Program				
SB19	02/24/14	12.24	5.457	7.16	19.5	0.91
SB19	05/19/14	13.17	5.473	7.18	82.7	0.30
SB19	08/29/14	12.68	5.376	7.34	-2.2	0.11
SB19	11/21/14	12.47	5.578	7.31	-101.9	1.20
SB19	02/13/15	12.45	5.469	7.04	25.5	1.80
SB19	05/21/15	12.44	5.145	7.00	-49.4	0.33
SB19	08/27/15	12.61	5.408	8.12	-119.5	0.20
SB19	11/24/15	12.15	5.243	6.63	-14.9	0.80
SB19	02/22/16	12.25	5.290	7.31	-111.8	0.21
SB19	05/23/16	12.75	5.209	7.18	-109.4	0.13
SB19	08/15/16	12.76	5.301	7.16	7.4	0.56
SB19	11/21/16	12.28	5.298	7.18	-31.2	0.70
SB19	02/16/17	12.40	5.398	7.30	52.7	0.96
SB19	05/09/17	16.85	4.500	7.02	-50.2	0.45
SB19	08/24/17	14.15	1.950	7.90	-154.7	0.03
SB19	11/20/17	13.15	2.260	7.22	-95.8	0.34
SB19	02/26/18	12.27	2.760	7.54	-20.1	0.11
SB19	05/21/18	Not Measured - Well Obstructed[4]				
SB19	08/27/18	Not Measured - Well Obstructed[4]				
SB19	11/09/18	Not Measured - Well Obstructed[4]				
SB19	02/25/19	Not Measured - Well Obstructed[4]				
SB20	02/24/14	Not Measured - Insufficient Water				
SB20	05/19/14	13.97	4.530	7.17	181.4	0.95
SB20	08/29/14	12.72	4.834	7.27	43.4	0.15
SB20	11/21/14	12.41	4.888	7.41	-6.2	1.86
SB20	02/13/15	12.41	4.802	6.74	50.0	1.08
SB20	05/21/15	12.54	4.722	6.97	71.5	1.61
SB20	08/27/15	13.78	0.045	7.77	-26.8	10.71
SB20	11/24/15	12.39	3.669	11.22 [2]	-203.2	0.11
SB20	02/22/16	12.44	0.903	7.34	-82.8	0.73
SB20	05/23/16	12.98	1.720	7.36	-110.4	0.19
SB20	08/15/16	12.88	1.716	7.37	-29.8	0.42
SB20	11/21/16	12.42	2.671	7.15	-28.4	0.41
SB20	02/16/17	12.50	3.913	7.13	-71.4	0.55
SB20	05/09/17	16.64	3.520	6.92	-2.8	0.45
SB20	08/24/17	14.44	3.530	7.55	-87.9	0.16
SB20	11/20/17	13.07	2.580	7.21	-76.4	0.09
SB20	02/26/18	11.42	3.540	7.22	-10.2	0.20
SB20	05/21/18	16.52	4.590	7.10	-37.4	0.16
SB20	08/27/18	14.47	4.540	6.90	-118.1	0.10
SB20	11/09/18	12.67	2.302	7.36	-12.1	1.14
SB20	02/25/19	11.36	2.870	7.60	0.3	0.56
SB20R	02/24/14	Not Measured - Insufficient Water				
SB20R	05/19/14	Not Measured - Insufficient Water				
SB20R	08/29/14	Not Measured - Insufficient Water				

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB20R	11/21/14	Not Measured - Insufficient Water				
SB20R	02/13/15	Not Measured - Insufficient Water				
SB20R	05/21/15	Not Measured - Insufficient Water				
SB20R	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB21	02/24/14	Not Measured - Insufficient Water				
SB21	05/19/14	Not Measured - LNAPL Present				
SB21	08/29/14	Not Measured - LNAPL Present				
SB21	11/21/14	Not Measured - LNAPL Present				
SB21	02/13/15	Not Measured - LNAPL Present				
SB21	05/21/15	Not Measured - LNAPL Present				
SB21	08/27/15	Not Measured - LNAPL Present				
SB21	11/24/15	Not Measured - LNAPL Present				
SB21	02/22/16	Not Measured - LNAPL Present				
SB21	05/23/16	Not Measured - LNAPL Present				
SB21	08/15/16	Not Measured - LNAPL Present				
SB21	11/21/16	Not Measured - LNAPL Present				
SB21	02/16/17	Not Measured - LNAPL Present				
SB21	05/09/17	Not Measured - LNAPL Present				
SB21	08/24/17	Not Measured - LNAPL Present				
SB21	11/20/17	Not Measured - LNAPL Present				
SB21	02/26/18	Not Measured - LNAPL Present				
SB21	05/21/18	Not Measured - LNAPL Present				
SB21	08/27/18	Not Measured - LNAPL Present				
SB21	11/09/18	Not Measured - LNAPL Present				
SB21	02/25/19	Not Measured - LNAPL Present				
SB22	02/24/14	Not Measured - Insufficient Water				
SB22	05/19/14	Not Measured - Insufficient Water				
SB22	08/29/14	Not Measured - Insufficient Water				
SB22	11/21/14	Not Measured - Insufficient Water				
SB22	02/13/15	Not Measured - Insufficient Water				
SB22	05/21/15	Not Measured - Insufficient Water				
SB22	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB22R	02/24/14	12.29	3.073	7.19	83.1	0.20
SB22R	05/19/14	12.83	3.560	7.05	118.9	0.20
SB22R	08/29/14	12.53	2.767	6.99	-70.0	0.12
SB22R	11/21/14	12.48	3.792	7.45	12.6	1.53
SB22R	02/13/15	12.32	3.100	6.95	41.0	0.24
SB22R	05/21/15	12.32	2.598	7.06	-142.2	0.17
SB22R	08/27/15	12.77	3.703	7.83	-101.5	0.27
SB22R	11/24/15	12.31	2.760	9.79	-55.3	0.31
SB22R	02/22/16	12.19	1.353	7.09	-167.8	0.22
SB22R	05/23/16	12.64	1.731	7.07	-172.7	0.17
SB22R	08/15/16	12.54	2.838	6.97	-46.5	0.14
SB22R	11/21/16	12.35	1.536	7.04	-46.9	0.18
SB22R	02/16/17	12.40	4.735	7.00	-42.7	0.29

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB22R	05/09/17	17.35	1.430	6.99	-66.8	0.42
SB22R	08/24/17	17.87	1.530	7.38	-159.6	0.01
SB22R	11/20/17	13.28	2.030	6.99	-166.7	0.21
SB22R	02/26/18	12.56	2.280	7.34	-46.3	0.03
SB22R	05/21/18	16.71	1.590	6.94	-156.9	0.12
SB22R	08/27/18	13.57	2.640	7.06	-108.0	0.12
SB22R	11/09/18	12.45	2.055	7.43	11.1	0.74
SB22R	02/25/19	11.19	1.990	7.70	-144.8	0.23
SB23	03/07/14 [1]	11.26	1.978	7.07	-162.2	4.18
SB23	05/19/14	Not Measured - LNAPL Present				
SB23	08/29/14	Not Measured - LNAPL Present				
SB23	11/21/14	Not Measured - LNAPL Present				
SB23	02/13/15	Not Measured - LNAPL Present				
SB23	05/21/15	Not Measured - LNAPL Present				
SB23	08/27/15	Not Measured - Insufficient Water				
SB23	11/24/15	Not Measured - Insufficient Water				
SB23	02/22/16	Not Measured - Insufficient Water				
SB23	05/23/16	Not Measured - Insufficient Water				
SB23	08/15/16	Not Measured - Insufficient Water				
SB23	11/21/16	Not Measured - Insufficient Water				
SB23	02/16/17	Not Measured - Insufficient Water				
SB23	05/09/17	Not Measured - Removed from Groundwater Monitoring Program				
SB23R	08/24/17	Not Measured - LNAPL Present				
SB23R	11/20/17	13.43	2.22	7.17	-205.8	0.04
SB23R	02/26/18	Not Measured - LNAPL Present				
SB23R	05/21/18	Not Measured - LNAPL Present				
SB23R	08/27/18	Not Measured - LNAPL Present				
SB23R	11/09/18	Not Measured - LNAPL Present				
SB23R	02/25/19	Not Measured - LNAPL Present				
SB24	02/24/14	Not Measured - Insufficient Water				
SB24	05/19/14	Not Measured - Insufficient Water				
SB24	08/29/14	Not Measured - Insufficient Water				
SB24	11/21/14	Not Measured - Insufficient Water				
SB24	02/13/15	Not Measured - Insufficient Water				
SB24	05/21/15	Not Measured - Insufficient Water				
SB24	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB24R	02/24/14	12.29	2.768	7.19	129.5	0.37
SB24R	05/19/14	12.75	3.496	6.88	226.0	0.21
SB24R	08/29/14	12.39	3.007	7.49	108.5	0.36
SB24R	11/21/14	12.30	4.164	7.45	152.4	1.49
SB24R	02/13/15	12.24	3.734	7.15	70.8	6.50
SB24R	05/21/15	12.27	2.891	7.13	10.7	0.20
SB24R	08/27/15	12.30	4.031	7.71	12.2	0.10
SB24R	11/24/15	12.22	2.667	8.45	-11.4	0.47
SB24R	02/22/16	12.07	2.758	7.55	59.5	0.34
SB24R	05/23/16	12.56	2.661	7.42	-108.2	0.49
SB24R	08/15/16	12.29	3.303	7.23	110.6	0.18

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB24R	11/21/16	12.20	3.962	7.01	19.6	0.35
SB24R	02/16/17	12.20	4.113	7.12	153.4	0.58
SB24R	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB25	02/24/14	Not Measured - Insufficient Water				
SB25	05/19/14	Not Measured - Insufficient Water				
SB25	08/29/14	Not Measured - Insufficient Water				
SB25	11/21/14	Not Measured - Insufficient Water				
SB25	02/13/15	Not Measured - Insufficient Water				
SB25	05/21/15	Not Measured - Insufficient Water				
SB25	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB25R	02/24/14	12.16	3.008	7.22	174.2	2.00
SB25R	05/19/14	12.65	3.214	7.11	219.5	0.18
SB25R	08/29/14	12.47	3.054	7.50	135.1	0.04
SB25R	11/21/14	12.38	3.195	7.55	22.9	0.85
SB25R	02/13/15	12.25	3.180	7.12	44.6	1.00
SB25R	05/21/15	12.41	2.960	7.09	38.8	0.14
SB25R	08/27/15	12.62	3.412	7.82	-52.2	0.10
SB25R	11/24/15	12.35	3.095	6.73	0.3	0.62
SB25R	02/22/16	12.12	0.317	7.22	-80.6	0.35
SB25R	05/23/16	12.53	2.652	7.18	-115.4	0.30
SB25R	08/15/16	12.60	0.585	7.55	-20.7	0.30
SB25R	11/21/16	12.31	1.002	7.56	-46.5	0.33
SB25R	02/16/17	12.30	0.816	7.65	-110.6	0.11
SB25R	05/09/17	16.01	1.200	7.19	-13.1	0.39
SB25R	08/24/17	14.31	1.240	8.08	-113.6	0.06
SB25R	11/20/17	12.94	1.840	7.24	-18.7	0.61
SB25R	02/26/18	11.18	2.290	7.51	18.6	0.50
SB25R	05/21/18	16.77	1.770	7.51	-55.0	0.30
SB25R	08/27/18	13.75	1.250	7.20	-75.3	0.77
SB25R	11/09/18	12.47	2.116	7.59	11.6	0.85
SB25R	02/25/19	11.25	1.780	7.62	-54.2	0.23
SB26	02/24/14	12.80	2.212	7.60	171.0	0.56
SB26	05/19/14	12.89	1.999	7.75	216.9	0.62
SB26	08/29/14	12.51	2.026	7.85	96.0	0.10
SB26	11/21/14	12.20	2.260	7.99	86.4	1.81
SB26	02/13/15	12.23	1.836	7.59	140.6	0.77
SB26	05/21/15	12.39	1.753	7.35	20.5	0.30
SB26	08/27/15	12.43	1.833	7.74	65.3	0.15
SB26	11/24/15	12.20	1.025	9.87	-63.2	0.34
SB26	02/22/16	12.13	0.663	7.96	-69.5	0.23
SB26	05/23/16	12.64	0.637	7.62	-149.1	0.22
SB26	08/15/16	12.41	1.075	7.33	166.0	0.18
SB26	11/21/16	12.13	1.523	7.65	4.0	0.35

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB26	02/16/17	12.30	1.836	6.67	156.2	0.71
SB26	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB27	02/24/14	Not Measured - Insufficient Water				
SB27	05/19/14	Not Measured - Insufficient Water				
SB27	08/29/14	Not Measured - Insufficient Water				
SB27	11/21/14	Not Measured - Insufficient Water				
SB27	02/13/15	Not Measured - Insufficient Water				
SB27	05/21/15	Not Measured - Insufficient Water				
SB27	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB27R	02/24/14	11.95	3.014	7.35	152.0	4.99
SB27R	05/19/14	12.68	3.275	7.08	245.3	0.22
SB27R	08/29/14	12.41	3.053	7.59	103.5	0.06
SB27R	11/21/14	12.31	3.329	7.54	199.7	1.84
SB27R	02/13/15	12.26	3.157	7.25	25.6	0.44
SB27R	05/21/15	12.34	2.955	7.08	59.3	0.33
SB27R	08/27/15	12.45	3.411	7.58	9.8	0.39
SB27R	11/24/15	12.31	2.981	6.89	47.2	2.00
SB27R	02/22/16	12.17	3.030	7.38	17.3	0.22
SB27R	05/23/16	12.57	2.913	7.33	-76.6	1.65
SB27R	08/15/16	12.56	2.931	7.22	17.2	0.42
SB27R	11/21/16	12.30	3.021	7.19	-2.5	0.35
SB27R	02/16/17	12.30	3.449	7.12	36.8	0.45
SB27R	05/09/17	15.65	2.620	6.81	104.7	1.61
SB27R	08/24/17	17.43	2.670	7.92	174.2	0.32
SB27R	11/20/17	13.25	2.950	7.29	62.7	1.41
SB27R	02/26/18	11.44	3.290	7.31	31.5	0.08
SB27R	05/21/18	16.21	2.940	7.32	66.7	0.42
SB27R	08/27/18	14.07	3.500	6.82	-1.2	0.12
SB27R	11/09/18	12.37	2.191	7.50	44.5	1.62
SB27R	02/25/19	11.95	3.040	7.97	38.1	1.15
SB28	02/24/14	Not Measured - Insufficient Water				
SB28	05/19/14	Not Measured - Insufficient Water				
SB28	08/29/14	Not Measured - Insufficient Water				
SB28	11/21/14	Not Measured - Insufficient Water				
SB28	02/13/15	Not Measured - Insufficient Water				
SB28	05/21/15	Not Measured - Insufficient Water				
SB28	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB28R	02/24/14	12.41	2.326	7.25	135.9	0.47
SB28R	05/19/14	12.49	3.130	7.50	254.3	0.83
SB28R	08/29/14	12.47	2.725	7.49	74.8	0.16
SB28R	11/21/14	12.35	3.429	7.60	153.4	2.06
SB28R	02/13/15	12.30	2.971	7.25	73.9	0.67
SB28R	05/21/15	12.32	2.204	7.22	23.5	0.17

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB28R	08/27/15	12.85	1.927	7.74	6.1	1.16
SB28R	11/24/15	12.25	2.276	8.32	-3.2	0.54
SB28R	02/22/16	12.17	2.809	7.43	44.3	0.36
SB28R	05/23/16	12.45	2.618	7.35	-99.8	0.32
SB28R	08/15/16	12.59	1.937	7.38	38.7	1.20
SB28R	11/21/16	Not Measured - Insufficient Water				
SB28R	02/16/17	Not Measured - Well Obstructed[4]				
SB28R	05/09/17	Not Measured - Well Obstructed[4]				
SB28R	08/24/17	Not Measured - Well Obstructed[4]				
SB28R	11/20/17	Not Measured - Well Obstructed[4]				
SB28R	02/26/18	Not Measured - Well Obstructed[4]				
SB28R	05/21/18	Not Measured - Well Obstructed[4]				
SB28R	08/27/18	Not Measured - Well Obstructed[4]				
SB28R	11/09/18	Not Measured - Well Obstructed[4]				
SB28R	02/25/19	Not Measured - Well Obstructed[4]				
SB29	02/24/14	12.59	2.630	7.22	75.8	0.56
SB29	05/19/14	12.73	3.306	7.32	526.9	0.46
SB29	08/29/14	12.69	2.328	7.61	90.9	0.31
SB29	11/21/14	12.41	3.778	7.70	118.9	0.86
SB29	02/13/15	12.37	3.586	7.38	143.2	0.50
SB29	05/21/15	12.41	2.242	7.24	-28.0	0.20
SB29	08/27/15	12.50	3.900	7.67	-11.7	0.06
SB29	11/24/15	12.21	2.435	9.68	-50.3	0.69
SB29	02/22/16	12.21	1.198	7.57	24.5	0.16
SB29	05/23/16	12.58	1.616	7.44	-147.6	0.50
SB29	08/15/16	12.50	1.626	7.54	-19.8	0.21
SB29	11/21/16	12.26	1.995	7.76	5.0	0.34
SB29	02/16/17	12.40	3.075	7.48	191.5	0.59
SB29	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB30	03/07/14 [1]	9.64	3.415	6.83	-57.1	15.51
SB30	05/19/14	Not Measured - LNAPL Present				
SB30	08/29/14	Not Measured - LNAPL Present				
SB30	11/21/14	Not Measured - LNAPL Present				
SB30	02/13/15	Not Measured - LNAPL Present				
SB30	05/21/15	Not Measured - LNAPL Present				
SB30	08/27/15	Not Measured - LNAPL Present				
SB30	11/24/15	Not Measured - LNAPL Present				
SB30	02/22/16	Not Measured - LNAPL Present				
SB30	05/23/16	Not Measured - LNAPL Present				
SB30	08/15/16	Not Measured - LNAPL Present				
SB30	11/21/16	Not Measured - LNAPL Present				
SB30	02/16/17	Not Measured - LNAPL Present				
SB30	05/09/17	Not Measured -Spill Buster Present				

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB30	08/24/17	Not Measured - LNAPL Present				
SB30	11/20/17	Not Measured - LNAPL Present				
SB30	02/26/18	Not Measured - LNAPL Present				
SB30	05/21/18	Not Measured - LNAPL Present				
SB30	08/27/18	Not Measured - LNAPL Present				
SB30	11/09/18	Not Measured - LNAPL Present				
SB30	02/25/19	Not Measured - LNAPL Present				
SB31	03/07/14 [1]	9.15	3.096	6.85	-47.2	14.40
SB31	05/19/14	Not Measured - LNAPL Present				
SB31	08/29/14	Not Measured - LNAPL Present				
SB31	11/21/14	Not Measured - LNAPL Present				
SB31	02/13/15	Not Measured - LNAPL Present				
SB31	05/21/15	Not Measured - LNAPL Present				
SB31	08/27/15	Not Measured - LNAPL Present				
SB31	11/24/15	Not Measured - LNAPL Present				
SB31	02/22/16	Not Measured - LNAPL Present				
SB31	05/23/16	Not Measured - LNAPL Present				
SB31	08/15/16	Not Measured - LNAPL Present				
SB31	11/21/16	Not Measured - LNAPL Present				
SB31	02/16/17	Not Measured - LNAPL Present				
SB31	05/09/17	Not Measured - Spill Buster Present				
SB31	08/24/17	Not Measured - LNAPL Present				
SB31	11/20/17	Not Measured - LNAPL Present				
SB31	02/26/18	Not Measured - LNAPL Present				
SB31	05/21/18	Not Measured - LNAPL Present				
SB31	08/27/18	Not Measured - LNAPL Present				
SB31	11/09/18	Not Measured - LNAPL Present				
SB31	02/25/19	Not Measured - LNAPL Present				
SB32	02/24/14	12.42	2.781	7.15	107.8	0.36
SB32	03/31/14	12.54	2.934	6.82	109.5	0.25
SB32	05/19/14	12.89	3.511	7.39	174.1	0.40
SB32	08/29/14	12.66	2.750	6.99	35.0	0.45
SB32	11/21/14	12.61	4.066	7.18	-145.9	1.22
SB32	02/13/15	12.47	3.926	6.92	-53.3	0.28
SB32	05/21/15	12.51	2.637	6.99	-82.0	0.11
SB32	08/27/15	Not Measured - Insufficient Water				
SB32	11/24/15	Not Measured - Insufficient Water				
SB32	02/22/16	Not Measured - Insufficient Water				
SB32	05/23/16	Not Measured - Insufficient Water				
SB32	08/15/16	Not Measured - Insufficient Water				
SB32	11/21/16	Not Measured - Insufficient Water				
SB32	02/16/17	Not Measured - Insufficient Water				
SB32	05/09/17	Not Measured - Insufficient Water				
SB32	08/24/17	Not Measured - Insufficient Water				
SB32	11/20/17	Not Measured - Insufficient Water				
SB32	02/26/18	Not Measured - Insufficient Water				
SB32	05/21/18	Not Measured - Insufficient Water				

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB32	08/27/18	Not Measured - Insufficient Water				
SB32	11/09/18	Not Measured - Insufficient Water				
SB32	02/25/19	Not Measured - Insufficient Water				
SB33	02/24/14	Not Measured - Insufficient Water				
SB33	05/19/14	Not Measured - Insufficient Water				
SB33	08/29/14	12.37	6.177	7.08	131.8	0.11
SB33	11/21/14	12.28	6.165	7.18	-11.5	1.73
SB33	02/13/15	12.16	6.050	7.02	54.9	0.35
SB33	05/21/15	12.30	5.910	6.75	79.0	0.27
SB33	08/27/15	12.40	6.035	7.78	-98.4	0.12
SB33	11/24/15	12.22	5.976	6.65	-23.4	0.32
SB33	02/22/16	12.18	6.032	7.06	-42.7	0.20
SB33	05/23/16	12.48	5.933	6.92	-52.9	0.15
SB33	08/15/16	12.29	5.925	6.85	170.8	1.50
SB33	11/21/16	12.10	5.913	6.95	-3.9	0.12
SB33	02/16/17	12.10	5.920	7.07	32.3	0.65
SB33	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB34	02/24/14	12.36	2.316	7.14	188.9	0.72
SB34	05/19/14	12.99	2.366	7.31	245.1	0.34
SB34	08/29/14	12.61	2.328	7.20	127.4	0.30
SB34	11/21/14	12.32	2.393	7.72	176.6	1.77
SB34	02/13/15	12.17	2.308	7.10	64.4	4.30
SB34	05/21/15	12.49	2.247	7.07	33.6	0.15
SB34	08/27/15	12.57	2.298	7.60	18.9	0.23
SB34	11/24/15	12.30	2.303	8.13	26.5	1.08
SB34	02/22/16	12.21	2.292	7.34	37.7	0.20
SB34	05/23/16	12.63	2.283	7.20	-91.0	0.33
SB34	08/15/16	12.43	2.310	7.08	128.6	0.11
SB34	11/21/16	12.29	2.308	7.19	2.2	1.94
SB34	02/16/17	12.30	2.466	7.25	-59.8	0.51
SB34	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB35	03/31/14	12.42	2.861	6.69	118.3	0.39
SB35	05/19/14	12.56	2.905	4.38	184.8	0.30
SB35	08/29/14	12.46	2.887	7.55	107.5	0.11
SB35	11/21/14	12.44	3.078	7.69	89.1	1.40
SB35	02/13/15	12.29	2.897	7.26	31.9	0.72
SB35	05/21/15	12.38	2.787	7.06	46.1	0.14
SB35	08/27/15	12.54	3.036	7.75	-15.3	8.30
SB35	11/24/15	12.31	1.763	6.99	-16.9	0.41
SB35	02/22/16	12.18	1.881	7.40	-95.9	0.18
SB35	05/23/16	12.47	2.132	7.27	-103.7	0.20
SB35	08/15/16	12.44	2.261	7.17	-40.9	0.22
SB35	11/21/16	12.30	2.610	7.26	-16.0	0.46
SB35	02/16/17	12.30	2.990	7.30	19.0	0.35
SB35	05/09/17	16.19	2.410	7.03	89.7	0.49

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB35	08/24/17	Not Measured - Removed From Groundwater Monitoring Program				
SB36	03/31/14	12.56	3.638	6.95	86.3	0.19
SB36	05/19/14	12.42	4.010	7.39	250.8	0.32
SB36	08/29/14	12.37	3.134	7.13	26.0	0.17
SB36	11/21/14	12.32	3.121	7.68	145.8	1.63
SB36	02/13/15	12.01	3.096	6.84	156.7	0.75
SB36	05/21/15	12.17	2.926	7.06	77.2	0.30
SB36	08/27/15	12.13	5.125	7.27	79.2	0.18
SB36	11/24/15	11.96	4.449	6.31	90.8	0.40
SB36	02/22/16	12.15	4.534	6.97	-14.8	0.32
SB36	05/23/16	12.33	3.978	6.58	-59.2	0.45
SB36	08/15/16	12.48	3.383	6.94	168.0	0.23
SB36	11/21/16	12.08	3.701	6.93	-78.8	0.13
SB36	02/16/17	12.20	4.224	6.89	-83.2	0.64
SB36	05/09/17	14.42	2.809	7.03	-112.7	0.16
SB36	08/24/17	13.14	3.640	7.45	-125.2	0.07
SB36	11/20/17	13.49	3.610	6.73	-207.0	0.16
SB36	02/26/18	12.52	3.700	7.18	-24.0	0.11
SB36	05/21/18	14.62	3.615	7.15	-197.9	0.06
SB36	08/27/18	13.67	3.400	6.90	-159.2	0.15
SB36	11/09/18	12.53	2.493	7.52	-92.0	1.37
SB36	02/25/19	12.00	3.370	7.90	27.3	0.19
SB37	03/31/14	Not Measured - Insufficient Water				
SB37	05/19/14	12.92	3.378	6.97	245.5	0.22
SB37	08/29/14	12.69	2.263	7.09	-48.9	0.09
SB37	11/21/14	12.51	3.562	7.22	-30.0	1.57
SB37	02/13/15	12.54	3.581	6.88	47.3	0.24
SB37	05/21/15	12.53	2.066	7.18	-166.9	0.04
SB37	08/27/15	12.71	1.964	8.26	-203.4	0.29
SB37	11/24/15	12.48	1.874	8.70	-40.6	0.28
SB37	02/22/16	12.40	2.040	7.39	-205.9	0.04
SB37	05/23/16	Not Measured - LNAPL Present				
SB37	08/15/16	Not Measured - LNAPL Present				
SB37	11/21/16	Not Measured - LNAPL Present				
SB37	02/16/17	Not Measured - LNAPL Present				
SB37	05/09/17	Not Measured - LNAPL Present				
SB37	08/24/17	Not Measured - LNAPL Present				
SB37	11/20/17	Not Measured - LNAPL Present				
SB37	02/26/18	Not Measured - LNAPL Present				
SB37	05/21/18	Not Measured - LNAPL Present				
SB37	08/27/18	Not Measured - LNAPL Present				
SB37	11/09/18	Not Measured - LNAPL Present				
SB37	02/25/19	Not Measured - LNAPL Present				
SB38	03/31/14	12.49	2.701	7.03	77.0	2.09
SB38	05/19/14	12.60	2.728	7.45	250.8	0.22
SB38	08/29/14	12.33	2.378	7.47	27.3	0.19
SB38	11/21/14	12.32	2.658	7.69	151.3	0.41

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB38	02/13/15	12.22	2.640	7.37	167.3	2.17
SB38	05/21/15	12.21	2.286	6.98	215.5	0.36
SB38	08/27/15	12.69	2.596	7.55	90.0	0.90
SB38	11/24/15	12.04	2.417	6.66	88.6	0.83
SB38	02/22/16	12.14	2.550	7.58	23.1	0.40
SB38	05/23/16	12.35	2.017	6.89	128.6	0.33
SB38	08/15/16	12.45	2.230	7.18	241.9	0.25
SB38	11/21/16	12.09	2.491	7.17	-18.8	0.16
SB38	02/16/17	12.30	2.648	7.20	2.6	0.49
SB38	05/09/17	15.84	2.028	6.86	54.0	0.44
SB38	08/24/17	14.08	2.080	7.62	125.4	0.60
SB38	11/20/17	14.19	2.320	6.80	99.3	0.54
SB38	02/26/18	12.51	2.760	7.27	48.3	0.16
SB38	05/21/18	13.85	2.840	7.24	72.5	0.03
SB38	08/27/18	14.20	2.580	7.03	58.6	0.44
SB38	11/09/18	53.18	1.758	7.40	34.5	1.94
SB38	02/25/19	11.73	2.220	7.98	72.8	0.85
SB39	04/18/14	13.52	6.588	6.98	160.8	2.90
SB39	05/19/14	12.51	6.540	7.19	258.0	0.35
SB39	08/29/14	12.30	6.203	7.51	126.6	0.07
SB39	11/21/14	12.22	6.402	7.53	216.0	2.12
SB39	02/13/15	12.15	6.336	7.00	65.1	0.61
SB39	05/21/15	12.10	5.814	6.77	226.3	0.23
SB39	08/27/15	12.41	4.085	7.23	94.9	0.59
SB39	11/24/15	11.72	4.033	6.27	91.6	1.32
SB39	02/22/16	11.90	3.954	7.08	23.2	0.31
SB39	05/23/16	Not Measured - Probe Malfunction				
SB39	08/15/16	12.36	3.704	7.05	280.1	3.48
SB39	11/21/16	11.86	3.846	6.97	111.5	2.52
SB39	02/16/17	12.00	3.862	6.93	411.2	1.79
SB39	05/09/17	16.37	2.92	6.75	94.83	1.36
SB39	08/24/17	14.40	2.98	7.52	220.2	7.70
SB39	11/20/17	13.21	3.74	6.93	28.4	0.71
SB39	02/26/18	11.93	4.38	7.10	40.5	1.94
SB39	05/21/18	16.68	4.167	7.06	50.6	1.20
SB39	08/27/18	15.67	4.02	6.77	47.2	2.99
SB39	11/09/18	12.24	2.739	7.42	-55	2.13
SB39	02/25/19	11.29	3.81	7.75	70.2	2.31
SB40	04/18/14	12.58	3.878	7.22	140.1	1.17
SB40	05/19/14	12.36	3.888	7.54	232.0	0.58
SB40	08/29/14	12.14	3.561	7.61	88.0	3.20
SB40	11/21/14	11.49	3.553	7.60	88.4	2.20
SB40	02/13/15	12.11	3.559	7.13	76.0	2.01
SB40	05/21/15	12.12	3.485	6.50	250.1	0.90
SB40	08/27/15	12.22	3.721	7.34	116.2	0.12
SB40	11/24/15	11.91	2.703	6.65	108.7	4.74
SB40	02/22/16	12.03	2.260	7.24	192.0	0.41

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB40	05/23/16	12.03	2.281	6.64	108.8	5.43
SB40	08/15/16	12.43	2.111	7.50	263.8	7.10
SB40	11/21/16	11.96	2.012	7.28	142.4	1.89
SB40	02/16/17	12.20	2.363	7.27	414.0	0.71
SB40	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB41	04/18/14	12.92	2.001	7.54	115.8	3.36
SB41	05/19/14	12.51	2.419	7.39	208.1	0.25
SB41	08/29/14	12.30	2.012	7.76	43.3	0.22
SB41	11/21/14	11.97	1.980	8.10	122.2	2.05
SB41	02/13/15	12.14	2.094	7.47	109.0	0.45
SB41	05/21/15	12.19	1.910	7.09	217.0	0.34
SB41	08/27/15	12.53	1.945	7.49	118.3	0.10
SB41	11/24/15	11.97	1.932	6.70	97.8	1.95
SB41	02/22/16	12.05	0.868	7.63	-68.5	0.38
SB41	05/23/16	12.28	1.846	6.97	105.0	0.53
SB41	08/15/16	12.48	2.570	7.38	250.9	0.22
SB41	11/21/16	12.04	2.546	7.17	240.9	1.39
SB41	02/16/17	12.20	2.379	7.43	421.4	0.54
SB41	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB42	04/18/14	12.61	2.645	7.37	205.9	6.44
SB42	05/19/14	12.66	3.096	7.23	250.0	0.44
SB42	08/29/14	12.54	2.304	7.64	143.0	0.54
SB42	11/21/14	12.42	2.259	7.84	58.6	0.84
SB42	02/13/15	12.44	3.195	7.22	37.3	0.69
SB42	05/21/15	12.29	2.030	7.21	128.8	0.25
SB42	08/27/15	12.56	2.059	7.56	84.0	0.08
SB42	11/24/15	12.20	2.034	6.75	8.5	0.25
SB42	02/22/16	12.17	1.923	7.65	-59.8	0.28
SB42	05/23/16	12.56	1.888	7.52	-145.9	0.42
SB42	08/15/16	12.65	1.884	7.47	48.5	0.43
SB42	11/21/16	12.15	1.941	7.42	-15.5	1.65
SB42	02/16/17	12.30	2.520	7.58	117.9	0.31
SB42	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				

NOTES:

Temp (°C) = Temperature in degrees Celsius (°C)

EC (mS/cm) = Electrical conductivity in millisiemens per centimeter (mS/cm)

pH = Acidity or alkalinity in standard units

ORP (mV) = Oxidation reduction potential in millivolts (mV)

DO (mg/L) = Dissolved oxygen concentration in milligrams per liter (mg/L)

LNAPL = Light non-aqueous phase liquid

[1] Measured ex-situ due to the presence of LNAPL

[2] pH values appear anomalous for wells SB07, SB10, SB14, SB15, SB20 measured on 11/24/15, and for well SB11 on 5/23/16.

[3] DO values appear anomalous for wells SB07, SB08, SB10 measured on 02/22/16, and for well SB07 measured on 5/23/16.

[4] Obstruction in well large enough to block meter sensor, but did not block hydrasleeve deployment.

This table presents data collected by Tasman Geosciences. Historical data is presented in Attachment A of the Form 27 Site Assessment Report (COGCC Document #2148980)

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB01	02/24/14	1.5	13.5	1.2	33.8
SB01	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen			
SB01	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB02	02/24/14	**25.1**	<4.0	<4.0	<4.0
SB02	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen			
SB02	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB03	02/24/14	<1.0	<1.0	<1.0	<1.0
SB03	05/19/14	<1.0	<5.0	<1.0	<3.0
SB03	08/29/14	<1.0	<5.0	<1.0	<3.0
SB03	11/21/14	<1.0	<5.0	<1.0	<3.0
SB03	02/13/15	<1.0	<5.0	<1.0	<3.0
SB03	05/21/15	<1.0	<5.0	<1.0	<3.0
SB03	08/27/15	<1.0	<5.0	<1.0	<3.0
SB03	11/24/15	1.45	<5.0	1.33	<3.0
SB03	02/22/16	2.57	<5.0	5.53	<3.0
SB03	05/23/16	3.2	<1.0	6.2	2.5
SB03	08/15/16	<1.0	<1.0	<1.0	<1.0
SB03	11/21/16	<1.0	<1.0	<1.0	<1.0
SB03	02/16/17	<1.0	<1.0	<1.0	<1.0
SB03	05/12/17	<1.0	<1.0	<1.0	<2.0
SB03	08/24/17	<1.0	<1.0	<1.0	<2.0
SB03	11/20/17	<1.0	<1.0	<1.0	<2.0
SB03	02/26/18	<1.0	<1.0	<1.0	<2.0
SB03	05/21/18	<1.0	<1.0	<1.0	<2.0
SB03	08/27/18	<1.0	<1.0	<1.0	<2.0
SB03	11/09/18	<1.0	<1.0	<1.0	<2.0
SB03	02/25/19	<1.0	<1.0	<1.0	<2.0
SB04	02/24/14	**72.3**	<1.0	<1.0	<1.0
SB04	05/19/14	**6.4**	<5.0	<1.0	<3.0
SB04	08/29/14	**42**	<5.0	<1.0	<3.0
SB04	11/21/14	**7.9**	<5.0	<1.0	<3.0
SB04	02/13/15	**8.8**	<5.0	<1.0	<3.0
SB04	05/21/15	**100**	<5.0	6.1	4.8
SB04	08/27/15	**174**	<5.0	3.26	3.28
SB04	11/24/15	**1,760**	<125	543	371
SB04	02/22/16	**1,010**	<5.0	223	366
SB04	05/23/16	**490**	<1.0	300	150
SB04	08/15/16	**910**	<1.0	640	150
SB04	11/21/16	**970**	1.4	**1,100**	<1.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB04	02/16/17	**770**	1.3	**1,100**	22
SB04	05/12/17	**620**	1.5	**930**	64
SB04	08/24/17	**36**	1.9	150	31
SB04[3]	11/20/17	**53**	<1.0	110	<2.0
SB04	02/26/18	**280**	13	560	23
SB04	05/21/18	<1.0	<1.0	<1.0	<2.0
SB04	08/27/18	**21**	<1.0	2.7	2.5
SB04	11/09/18	**180**	<1.0	<1.0	<2.0
SB04	02/25/19	**110**	<1.0	<1.0	<2.0
SB05	02/24/14	**Not Sampled - LNAPL Present**			
SB05	05/19/14	**Not Sampled - LNAPL Present**			
SB05	08/29/14	**Not Sampled - LNAPL Present**			
SB05	11/21/14	**Not Sampled - LNAPL Present**			
SB05	02/13/15	**Not Sampled - LNAPL Present**			
SB05	05/21/15	**Not Sampled - LNAPL Present**			
SB05	08/27/15	**Not Sampled - LNAPL Present**			
SB05	11/24/15	**Not Sampled - LNAPL Present**			
SB05	02/22/16	**Not Sampled - LNAPL Present**			
SB05	05/23/16	**Not Sampled - LNAPL Present**			
SB05	08/15/16	**Not Sampled - LNAPL Present**			
SB05	11/21/16	**Not Sampled - LNAPL Present**			
SB05	02/16/17	**Not Sampled - LNAPL Present**			
SB05	05/12/17	**Not Sampled - LNAPL Present**			
SB05	08/24/17	**Not Sampled - LNAPL Present**			
SB05	11/20/17	**Not Sampled - LNAPL Present**			
SB05	02/26/18	**Not Sampled - LNAPL Present**			
SB05	05/18/18	**Not Sampled - LNAPL Present**			
SB05	08/27/18	**Not Sampled - LNAPL Present**			
SB05	11/06/18	**Not Sampled - LNAPL Present**			
SB05	02/25/19	**Not Sampled - LNAPL Present**			
SB06	02/24/14	<1.0	<1.0	<1.0	<1.0
SB06	05/19/14	<1.0	<5.0	<1.0	<3.0
SB06	08/29/14	<1.0	<5.0	<1.0	<3.0
SB06	11/21/14	<1.0	<5.0	<1.0	<3.0
SB06	02/13/15	<1.0	<5.0	<1.0	<3.0
SB06	05/21/15	<1.0	<5.0	<1.0	<3.0
SB06	08/27/15	**23.2**	<5.0	<1.0	4.97
SB06	11/24/15	2.39	<5.0	<1.0	<3.0
SB06	02/22/16	2.48	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB06	05/23/16	2.6	<1.0	<1.0	2.7
SB06	08/15/16	<1.0	<1.0	<1.0	<1.0
SB06	11/21/16	<1.0	<1.0	<1.0	<1.0
SB06	02/16/17	2.0	<1.0	2.1	<1.0
SB06	05/12/17	<1.0	<1.0	<1.0	<2.0
SB06	08/24/17	<1.0	<1.0	<1.0	2.3
SB06	11/20/17	<1.0	<1.0	<1.0	<2.0
SB06	02/26/18	<1.0	<1.0	<1.0	<2.0
SB06	05/21/18	<1.0	<1.0	<1.0	<2.0
SB06	08/27/18	<1.0	<1.0	<1.0	<2.0
SB06	11/09/18	<1.0	<1.0	<1.0	<2.0
SB06	02/25/19	<1.0	<1.0	<1.0	<2.0
SB07	02/24/14	**8,600**	**9,910**	54.0	**1,800**
SB07	05/19/14	**7,800**	**9,900**	88	**3,200**
SB07	08/29/14	**5,900**	**<2,500**	<500	**<1,500**
SB07	11/21/14	**8,600**	**6,000**	<500	**3,600**
SB07	02/13/15	**2,200**	<250	<50	310
SB07	05/21/15	**4,400**	**720**	<50	430
SB07	08/27/15	**642**	**784**	<50	336
SB07	11/24/15	**9,560**	**27,000**	445	**8,730**
SB07	02/22/16	**7,860**	**10,400**	304	**6,720**
SB07	05/23/16	**9,900**	**2,000**	500	**6,200**
SB07	08/15/16	**4,200**	350	220	**2,100**
SB07	11/21/16	**1,100**	110	60	560
SB07	02/16/17	**3,500**	230	270	**5,800**
SB07	05/12/17	**2,700**	66	200	**5,400**
SB07	08/24/17	**2,300**	300	160	**3,700**
SB07	11/20/17	**1,800**	160	170	**2,700**
SB07	02/26/18	**1,900**	140	250	**1,600**
SB07	05/21/18	**700**	19	82	980
SB07	08/27/18	**450**	<1.0	110	590
SB07	11/09/18	**1,200**	2.0	150	750
SB07	02/25/19	<1.0	<1.0	1.4	470
SB08	02/24/14	**Not Sampled - LNAPL Present**			
SB08	05/19/14	**5,500**	**12,000**	480	**10,000**
SB08	08/29/14	**5,000**	**4,100**	600	**12,000**
SB08	11/21/14	**Not Sampled - LNAPL Present**			
SB08	02/13/15	**Not Sampled - LNAPL Present**			
SB08	05/21/15	**Not Sampled - LNAPL Present**			

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB08	08/27/15	**4,710**	**7,120**	252	**8,720**
SB08	11/24/15	**Not Sampled - LNAPL Present**			
SB08	02/22/16	**3,600**	**5,950**	459	**10,100**
SB08	05/23/16	**5,200**	**5,000**	**920**	**16,000**
SB08	08/15/16	**6,400**	**5,300**	**780**	**17,000**
SB08	11/21/16	**6,500**	**6,100**	**840**	**13,000**
SB08	02/16/17	**4,600**	**5,000**	**750**	**13,000**
SB08	05/12/17	**5,400**	**4,800**	530	**12,000**
SB08	08/24/17	**4,800**	**3,000**	**770**	**12,000**
SB08	11/20/17	**6,200**	**750**	440	**10,000**
SB08	02/26/18	**6,100**	**630**	540	**9,100**
SB08	05/21/18	**5,100**	500	220	**9,700**
SB08	08/27/18	**4,400**	**1,200**	520	**8,500**
SB08	11/09/18	**3,900**	190	320	**5,800**
SB08	02/25/19	**1,300**	130	160	**2,400**
SB09	02/24/14	**Not Sampled - LNAPL Present**			
SB09	05/19/14	**Not Sampled - LNAPL Present**			
SB09	08/29/14	**Not Sampled - LNAPL Present**			
SB09	11/21/14	**Not Sampled - LNAPL Present**			
SB09	02/13/15	**Not Sampled - LNAPL Present**			
SB09	05/21/15	**Not Sampled - LNAPL Present**			
SB09	08/27/15	**Not Sampled - LNAPL Present**			
SB09	11/24/15	**Not Sampled - LNAPL Present**			
SB09	02/22/16	**Not Sampled - LNAPL Present**			
SB09	05/23/16	**Not Sampled - LNAPL Present**			
SB09	08/15/16	**Not Sampled - LNAPL Present**			
SB09	11/21/16	**Not Sampled - LNAPL Present**			
SB09	02/16/17	**Not Sampled - LNAPL Present**			
SB09	05/12/17	**Not Sampled - LNAPL Present**			
SB09	08/24/17	**Not Sampled - LNAPL Present**			
SB09	11/20/17	**Not Sampled - LNAPL Present**			
SB09	02/26/18	**Not Sampled - LNAPL Present**			
SB09	05/18/18	**Not Sampled - LNAPL Present**			
SB09	08/27/18	**Not Sampled - LNAPL Present**			
SB09	11/06/18	**Not Sampled - LNAPL Present**			
SB09	02/25/19	**6,600**	**15,000**	460	**7,700**
SB10	02/24/14	**Not Sampled - LNAPL Present**			
SB10	05/19/14	**14,000**	**18,000**	640	**12,000**
SB10	08/29/14	**Not Sampled - LNAPL Present**			

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB10	11/21/14	**15,000**	**24,000**	**1,100**	**21,000**
SB10	02/13/15	**15,000**	**33,000**	620	**13,000**
SB10	05/21/15	**Not Sampled - LNAPL Present**			
SB10	08/27/15	**14,900**	**32,900**	**713**	**11,300**
SB10	11/24/15	**9,920**	**20,700**	**<1,000**	**9,280**
SB10	02/22/16	**3,520**	**6,670**	458	**9,620**
SB10	05/23/16	**7,200**	**16,000**	**1,200**	**18,000**
SB10	08/15/16	**6,700**	**14,000**	**710**	**18,000**
SB10	11/21/16	**6,900**	**5,600**	**1,000**	**13,000**
SB10	02/16/17	**4,800**	**2,600**	**790**	**10,000**
SB10	05/12/17	**5,700**	**2,700**	590	**10,000**
SB10	08/24/17	**4,900**	**1,300**	**880**	**8,900**
SB10	11/20/17	**3,500**	140	450	**6,400**
SB10	02/26/18	**1,800**	16	380	**3,200**
SB10	05/21/18	**560**	2	30	850
SB10	08/27/18	**370**	3.2	75	380
SB10	11/09/18	**410**	<1.0	150	230
SB10	02/25/19	**680**	370	160	740
SB11	02/24/14	**1,550**	<1.0	127	<1.0
SB11	05/19/14	**49**	<5.0	<1.0	<3.0
SB11	08/29/14	**170**	<5.0	20	<3.0
SB11	11/21/14	**250**	<5.0	22	<3.0
SB11	02/13/15	**94**	<5.0	28	<3.0
SB11	05/21/15	**120**	<5.0	16	<3.0
SB11	08/27/15	**48.2**	<5.0	<1.0	3.61
SB11	11/24/15	**50.6**	<5.0	111	<3.0
SB11	02/22/16	**11.5**	<5.0	59.4	<3.0
SB11	05/23/16	**64**	<1.0	38	<1.0
SB11	08/15/16	<1.0	<1.0	<1.0	<1.0
SB11	11/21/16	2.1	<1.0	14	<1.0
SB11	02/16/17	<1.0	<1.0	<1.0	<1.0
SB11	05/12/17	<1.0	<1.0	<1.0	<2.0
SB11	08/24/17	<1.0	<1.0	<1.0	<2.0
SB11	11/20/17	<1.0	<1.0	<1.0	<2.0
SB11	02/26/18	1.6	<1.0	1.1	7.4
SB11	05/21/18	<1.0	<1.0	<1.0	<2.0
SB11	08/27/18	<1.0	<1.0	<1.0	<2.0
SB11	11/09/18	<1.0	<1.0	<1.0	<2.0
SB11	02/25/19	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB12	02/24/14	<1.0	<1.0	<1.0	<1.0
SB12	05/19/14	<1.0	<5.0	<1.0	<3.0
SB12	08/29/14	<1.0	<5.0	<1.0	<3.0
SB12	11/21/14	<1.0	<5.0	<1.0	<3.0
SB12	02/13/15	<1.0	<5.0	<1.0	<3.0
SB12	05/21/15	<1.0	<5.0	<1.0	<3.0
SB12	08/27/15	<1.0	<5.0	<1.0	<3.0
SB12	11/24/15	<1.0	<5.0	<1.0	<3.0
SB12	02/22/16	<1.0	<5.0	<1.0	<3.0
SB12	05/23/16	<1.0	<1.0	<1.0	<1.0
SB12	08/15/16	<1.0	<1.0	<1.0	<1.0
SB12	11/21/16	<1.0	<1.0	<1.0	<1.0
SB12	02/16/17	<1.0	<1.0	<1.0	<1.0
SB12	05/12/17		Well Not Sampled This Event[2]		
SB12	08/24/17	<1.0	<1.0	<1.0	<2.0
SB12	11/20/17	<1.0	<1.0	<1.0	<2.0
SB12	02/26/18	<1.0	<1.0	<1.0	<2.0
SB12	05/21/18	<1.0	<1.0	<1.0	<2.0
SB12	08/27/18	<1.0	<1.0	<1.0	<2.0
SB12	11/09/18	<1.0	<1.0	<1.0	<2.0
SB12	02/25/19	<1.0	<1.0	<1.0	<2.0
SB13	02/24/14	<1.0	<1.0	<1.0	1.4
SB13	05/19/14	<1.0	<5.0	<1.0	<3.0
SB13	08/29/14	1.3	<5.0	<1.0	<3.0
SB13	11/21/14	<1.0	<5.0	<1.0	<3.0
SB13	02/13/15	<1.0	<5.0	<1.0	<3.0
SB13	05/21/15	<1.0	<5.0	<1.0	<3.0
SB13	08/27/15	<1.0	<5.0	<1.0	<3.0
SB13	11/24/15	1.15	<5.0	<1.0	<3.0
SB13	02/22/16	**10.6**	<5.0	8.85	16
SB13	05/23/16	**14**	7.0	40	40
SB13	08/15/16	<1.0	<1.0	<1.0	<1.0
SB13	11/21/16	**30**	2.8	31	57
SB13	02/16/17	**51**	1.6	61	42
SB13	05/12/17	**21**	<1.0	48	<2.0
SB13	08/24/17	<1.0	<1.0	<1.0	<2.0
SB13	11/20/17	<1.0	<1.0	6.2	<2.0
SB13	02/26/18	1.4	<1.0	<1.0	<2.0
SB13	05/21/18	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB13	08/27/18	<1.0	<1.0	<1.0	<2.0
SB13	11/09/18	1.1	<1.0	<1.0	<2.0
SB13	02/25/19	<1.0	<1.0	<1.0	<2.0
SB14	02/24/14	**1,220**	62.4	88.3	314
SB14	05/19/14	**140**	<5.0	1.4	4.8
SB14	08/29/14	**2,600**	<5.0	130	50
SB14	11/21/14	**2,100**	<500	120	<300
SB14	02/13/15	**1,700**	<100	210	<60
SB14	05/21/15	**1,400**	<100	310	<60
SB14	08/27/15	**2,570**	<100	394	<60
SB14	11/24/15	**5,070**	334	**978**	797
SB14	02/22/16	**4,390**	**648**	**717**	1,080
SB14	05/23/16	**2,600**	8.8	**1,200**	170
SB14	08/15/16	**1,700**	<1.0	1.9	48
SB14	11/21/16	**400**	1.6	680	53
SB14	02/16/17	<1.0	<1.0	<1.0	<1.0
SB14	05/12/17	**15**	<1.0	180	<2.0
SB14	08/24/17	<1.0	<1.0	<1.0	<2.0
SB14	11/20/17	1.8	<1.0	<1.0	<2.0
SB14	02/26/18	3.2	<1.0	<1.0	<2.0
SB14	05/21/18	<1.0	<1.0	<1.0	<2.0
SB14	08/27/18	2.2	<1.0	<1.0	<2.0
SB14	11/09/18	1.2	<1.0	<1.0	<2.0
SB14	02/25/19	<1.0	<1.0	<1.0	<2.0
SB15	02/24/14	**4,610**	**8,690**	553	**10,900**
SB15	05/19/14	**3,900**	**2,500**	530	**9,700**
SB15	08/29/14	**2,000**	<120	**700**	**4,100**
SB15	11/21/14	**480**	<120	190	880
SB15	02/13/15	**100**	<25	70	420
SB15	05/21/15	**64**	<25	30	230
SB15	08/27/15	**91.7**	<25	40.8	379
SB15	11/24/15	**8.84**	<5.0	<1.0	5.11
SB15	02/22/16	**10.8**	<5.0	<1.0	8.21
SB15	05/23/16	4.1	<1.0	5.7	26
SB15	08/15/16	<1.0	<1.0	<1.0	<1.0
SB15	11/21/16	<1.0	<1.0	<1.0	<1.0
SB15	02/16/17	<1.0	<1.0	<1.0	<1.0
SB15	05/12/17	**14**	<1.0	<1.0	2.1
SB15	08/24/17	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB15	11/20/17	<1.0	<1.0	<1.0	<2.0
SB15	02/26/18	<1.0	<1.0	<1.0	<2.0
SB15	05/21/18	<1.0	<1.0	<1.0	<2.0
SB15	08/27/18	**21**	<1.0	<1.0	<2.0
SB15	11/09/18	**45**	<1.0	<1.0	<2.0
SB15	02/25/19	**13**	<1.0	<1.0	<2.0
SB16	02/24/14	Not Sampled - Insufficient Water			
SB16	05/19/14	Not Sampled - Insufficient Water			
SB16	08/29/14	Not Sampled - Insufficient Water			
SB16	11/21/14	Not Sampled - Insufficient Water			
SB16	02/13/15	Not Sampled - Insufficient Water			
SB16	05/21/15	Not Sampled - Insufficient Water			
SB16	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB16R	02/24/14	**Not Sampled - LNAPL Present**			
SB16R	05/19/14	**6,000**	**26,000**	**770**	**14,000**
SB16R	08/29/14	**Not Sampled - LNAPL Present**			
SB16R	11/21/14	**Not Sampled - LNAPL Present**			
SB16R	02/13/15	**Not Sampled - LNAPL Present**			
SB16R	05/21/15	**Not Sampled - LNAPL Present**			
SB16R	08/27/15	**Not Sampled - LNAPL Present**			
SB16R	11/24/15	**Not Sampled - LNAPL Present**			
SB16R	02/22/16	**Not Sampled - LNAPL Present**			
SB16R	05/23/16	**Not Sampled - LNAPL Present**			
SB16R	08/15/16	**Not Sampled - LNAPL Present**			
SB16R	11/21/16	**Not Sampled - LNAPL Present**			
SB16R	02/16/17	**Not Sampled - LNAPL Present**			
SB16R	05/12/17	Not Sampled - Monitoring Well Damaged and Removed from Monitoring Program			
SB16R2	08/24/17	**1,200**	**3,100**	45	2,300
SB16R2	11/20/17	**Not Sampled - LNAPL Present**			
SB16R2	02/27/18	**Not Sampled - LNAPL Present**			
SB16R2	05/18/18	**Not Sampled - LNAPL Present**			
SB16R2	08/27/18	**Not Sampled - LNAPL Present**			
SB16R2	11/06/18	**Not Sampled - LNAPL Present**			
SB16R2	02/25/19	**Not Sampled - LNAPL Present**			
SB17	02/24/14	<1.0	<1.0	<1.0	<1.0
SB17	05/19/14	<1.0	<5.0	<1.0	<3.0
SB17	08/29/14	<1.0	<5.0	<1.0	<3.0
SB17	11/21/14	<1.0	<5.0	<1.0	<3.0
SB17	02/13/15	<1.0	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB17	05/21/15	<1.0	<5.0	<1.0	<3.0
SB17	08/27/15	<1.0	<5.0	<1.0	<3.0
SB17	11/24/15	<1.0	<5.0	<1.0	<3.0
SB17	02/22/16	<1.0	<5.0	<1.0	<3.0
SB17	05/23/16	<1.0	<1.0	<1.0	<1.0
SB17	08/15/16	<1.0	<1.0	<1.0	<1.0
SB17	11/21/16	<1.0	<1.0	<1.0	<1.0
SB17	02/16/17	<1.0	<1.0	<1.0	<1.0
SB17	05/12/17	<1.0	<1.0	<1.0	<2.0
SB17	08/24/17	<1.0	<1.0	<1.0	<2.0
SB17	11/20/17	<1.0	<1.0	<1.0	<2.0
SB17	02/26/18	<1.0	<1.0	<1.0	<2.0
SB17	05/21/18	<1.0	<1.0	<1.0	<2.0
SB17	08/27/18	<1.0	<1.0	<1.0	<2.0
SB17	11/09/18	<1.0	<1.0	<1.0	<2.0
SB17	02/25/19	<1.0	<1.0	<1.0	<2.0
SB18	02/24/14	<1.0	<1.0	<1.0	<1.0
SB18	05/19/14	<1.0	<5.0	<1.0	<3.0
SB18	08/29/14	<1.0	<5.0	<1.0	<3.0
SB18	11/21/14	<1.0	<5.0	<1.0	<3.0
SB18	02/13/15	<1.0	<5.0	<1.0	<3.0
SB18	05/21/15	<1.0	<5.0	<1.0	<3.0
SB18	08/27/15	<1.0	<5.0	<1.0	<3.0
SB18	11/24/15	<1.0	<5.0	<1.0	<3.0
SB18	02/22/16	<1.0	<5.0	<1.0	<3.0
SB18	05/23/16	1.9	<1.0	<1.0	<1.0
SB18	08/15/16	<1.0	<1.0	<1.0	<1.0
SB18	11/21/16	<1.0	<1.0	<1.0	<1.0
SB18	02/16/17	<1.0	<1.0	<1.0	<1.0
SB18	05/12/17	<1.0	<1.0	<1.0	<2.0
SB18	08/24/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB19	02/24/14	<1.0	<1.0	<1.0	<1.0
SB19	05/19/14	<1.0	<5.0	<1.0	<3.0
SB19	08/29/14	<1.0	<5.0	<1.0	3.4
SB19	11/21/14	<1.0	<5.0	<1.0	<3.0
SB19	02/13/15	<1.0	<5.0	<1.0	<3.0
SB19	05/21/15	<1.0	<5.0	<1.0	<3.0
SB19	08/27/15	<1.0	<5.0	<1.0	<3.0
SB19	11/24/15	<1.0	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB19	02/22/16	<1.0	<5.0	<1.0	<3.0
SB19	05/23/16	<1.0	<1.0	<1.0	<1.0
SB19	08/15/16	<1.0	<1.0	<1.0	<1.0
SB19	11/21/16	<1.0	<1.0	<1.0	<1.0
SB19	02/16/17	<1.0	<1.0	<1.0	<1.0
SB19	05/12/17	<1.0	<1.0	<1.0	<2.0
SB19	08/24/17	<1.0	<1.0	<1.0	<2.0
SB19	11/20/17	<1.0	<1.0	<1.0	<2.0
SB19	02/26/18	<1.0	<1.0	<1.0	<2.0
SB19	05/21/18	<1.0	<1.0	<1.0	<2.0
SB19	08/27/18	<1.0	<1.0	<1.0	<2.0
SB19	11/09/18	<1.0	<1.0	<1.0	<2.0
SB19	02/25/19	<1.0	<1.0	<1.0	<2.0
SB20	02/24/14	Not Sampled - Insufficient Water			
SB20	05/19/14	<1.0	<5.0	<1.0	<3.0
SB20	08/29/14	<1.0	<5.0	<1.0	3.5
SB20	11/21/14	<1.0	<5.0	<1.0	<3.0
SB20	02/13/15	<1.0	<5.0	<1.0	<3.0
SB20	05/21/15	<1.0	<5.0	<1.0	<3.0
SB20	08/27/15	<1.0	<5.0	<1.0	<3.0
SB20	11/24/15	<1.0	<5.0	<1.0	<3.0
SB20	02/22/16	<1.0	<5.0	<1.0	<3.0
SB20	05/23/16	<1.0	<1.0	<1.0	<1.0
SB20	08/15/16	<1.0	<1.0	<1.0	<1.0
SB20	11/21/16	<1.0	<1.0	<1.0	<1.0
SB20	02/16/17	<1.0	<1.0	<1.0	<1.0
SB20	05/12/17	<1.0	<1.0	<1.0	<2.0
SB20	08/24/17	<1.0	<1.0	<1.0	<2.0
SB20	11/20/17	<1.0	<1.0	<1.0	<2.0
SB20	02/26/18	<1.0	<1.0	<1.0	<2.0
SB20	05/21/18	1.3	<1.0	<1.0	<2.0
SB20	08/27/18	<1.0	<1.0	<1.0	<2.0
SB20	11/09/18	<1.0	<1.0	<1.0	<2.0
SB20	02/25/19	<1.0	<1.0	<1.0	8.0
SB20R	02/24/14	Not Sampled - Insufficient Water			
SB20R	05/19/14	Not Sampled - Insufficient Water			
SB20R	08/29/14	Not Sampled - Insufficient Water			
SB20R	11/21/14	Not Sampled - Insufficient Water			
SB20R	02/13/15	Not Sampled - Insufficient Water			

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB20R	05/21/15	Not Sampled - Insufficient Water			
SB20R	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB21	02/24/14	**Not Sampled - LNAPL Present**			
SB21	05/19/14	**Not Sampled - LNAPL Present**			
SB21	08/29/14	**Not Sampled - LNAPL Present**			
SB21	11/21/14	**Not Sampled - LNAPL Present**			
SB21	02/13/15	**Not Sampled - LNAPL Present**			
SB21	05/21/15	**Not Sampled - LNAPL Present**			
SB21	08/27/15	**Not Sampled - LNAPL Present**			
SB21	11/24/15	**Not Sampled - LNAPL Present**			
SB21	02/22/16	**Not Sampled - LNAPL Present**			
SB21	05/23/16	**Not Sampled - LNAPL Present**			
SB21	08/15/16	**Not Sampled - LNAPL Present**			
SB21	11/21/16	**Not Sampled - LNAPL Present**			
SB21	02/16/17	**Not Sampled - LNAPL Present**			
SB21	05/12/17	**Not Sampled - LNAPL Present**			
SB21	08/24/17	**Not Sampled - LNAPL Present**			
SB21	11/20/17	**Not Sampled - LNAPL Present**			
SB21	02/26/18	**Not Sampled - LNAPL Present**			
SB21	05/18/18	**Not Sampled - LNAPL Present**			
SB21	08/27/18	**Not Sampled - LNAPL Present**			
SB21	11/06/18	**Not Sampled - LNAPL Present**			
SB21	02/25/19	**Not Sampled - LNAPL Present**			
SB22	02/24/14	Not Sampled - Insufficient Water			
SB22	05/19/14	Not Sampled - Insufficient Water			
SB22	08/29/14	Not Sampled - Insufficient Water			
SB22	11/21/14	Not Sampled - Insufficient Water			
SB22	02/13/15	Not Sampled - Insufficient Water			
SB22	05/21/15	Not Sampled - Insufficient Water			
SB22	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB22R	02/24/14	**270**	**1,190**	6.9	598
SB22R	05/19/14	**110**	**1,900**	5.0	**1,600**
SB22R	08/29/14	**270**	**730**	19	**2,100**
SB22R	11/21/14	**110**	220	<10	1,100
SB22R	02/13/15	**22**	5.5	2.4	110
SB22R	05/21/15	**31**	<5.0	<1.0	140
SB22R	08/27/15	<1.0	<5.1	<1.1	8.46
SB22R	11/24/15	2.34	<5.2	<1.2	21.8
SB22R	02/22/16	**86.4**	**829**	31.0	**2,380**

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB22R	05/23/16	**190**	150	43	750
SB22R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB22R	11/21/16	2.2	2.7	2.5	<1.0
SB22R	02/16/17	4.4	<1.0	2.0	1.1
SB22R	05/12/17	1.5	1.6	<1.0	<2.0
SB22R	08/24/17	<1.0	<1.0	<1.0	<2.0
SB22R	11/20/17	1.1	2.0	<1.0	3.8
SB22R	02/26/18	**18**	44	6.5	140
SB22R	05/21/18	**14**	5.8	2.6	56
SB22R	08/27/18	2.4	<1.0	<1.0	<2.0
SB22R	11/09/18	2.2	1.8	<1.0	3.4
SB22R	02/25/19	2.1	<1.0	<1.0	<2.0
SB23	02/24/14	**Not Sampled - LNAPL Present**			
SB23	05/19/14	**Not Sampled - LNAPL Present**			
SB23	08/29/14	**Not Sampled - LNAPL Present**			
SB23	11/21/14	**Not Sampled - LNAPL Present**			
SB23	02/13/15	**Not Sampled - LNAPL Present**			
SB23	05/21/15	**Not Sampled - LNAPL Present**			
SB23	08/27/15	Not Sampled - Insufficient Water			
SB23	11/24/15	Not Sampled - Insufficient Water			
SB23	02/22/16	Not Sampled - Insufficient Water			
SB23	05/23/16	Not Sampled - Insufficient Water			
SB23	08/15/16	Not Sampled - Insufficient Water			
SB23	11/21/16	Not Sampled - Insufficient Water			
SB23	02/16/17	Not Sampled - Insufficient Water			
SB23	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB23R	08/24/17	**Not Sampled - LNAPL Present**			
SB23R	11/20/17	**6,500**	**24,000**	540	**18,000**
SB23R	02/26/18	**Not Sampled - LNAPL Present**			
SB23R	05/18/18	**Not Sampled - LNAPL Present**			
SB23R	08/27/18	**Not Sampled - LNAPL Present**			
SB23R	11/06/18	**Not Sampled - LNAPL Present**			
SB23R	02/25/19	**Not Sampled - LNAPL Present**			
SB24	02/24/14	Not Sampled - Insufficient Water			
SB24	05/19/14	Not Sampled - Insufficient Water			
SB24	08/29/14	Not Sampled - Insufficient Water			
SB24	11/21/14	Not Sampled - Insufficient Water			
SB24	02/13/15	Not Sampled - Insufficient Water			
SB24	05/21/15	Not Sampled - Insufficient Water			

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB24	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB24R	02/24/14	<1.0	<1.0	<1.0	<1.0
SB24R	05/19/14	1.3	<5.0	<1.0	<3.0
SB24R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB24R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB24R	02/13/15	<1.0	<5.0	<1.0	4.0
SB24R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB24R	08/27/15	<1.0	<5.0	<1.0	<3.0
SB24R	11/24/15	<1.0	<5.0	<1.0	<3.0
SB24R	02/22/16	<1.0	<5.0	<1.0	<3.0
SB24R	05/23/16	<1.0	<1.0	<1.0	<1.0
SB24R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB24R	11/21/16	<1.0	<1.0	<1.0	<1.0
SB24R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB24R	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB25	02/24/14	Not Sampled - Insufficient Water			
SB25	05/19/14	Not Sampled - Insufficient Water			
SB25	08/29/14	Not Sampled - Insufficient Water			
SB25	11/21/14	Not Sampled - Insufficient Water			
SB25	02/13/15	Not Sampled - Insufficient Water			
SB25	05/21/15	Not Sampled - Insufficient Water			
SB25	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB25R	02/24/14	<1.0	<1.0	<1.0	<1.0
SB25R	05/19/14	<1.0	<5.0	<1.0	<3.0
SB25R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB25R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB25R	02/13/15	<1.0	<5.0	<1.0	<3.0
SB25R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB25R	08/27/15	<1.0	<5.0	<1.0	<3.0
SB25R	11/24/15	<1.0	<5.0	<1.0	<3.0
SB25R	02/22/16	<1.0	<5.0	<1.0	<3.0
SB25R	05/23/16	<1.0	<1.0	<1.0	<1.0
SB25R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB25R	11/21/16	<1.0	<1.0	<1.0	<1.0
SB25R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB25R	05/12/17	<1.0	<1.0	<1.0	<2.0
SB25R	08/24/17	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB25R	11/20/17	<1.0	<1.0	<1.0	<2.0
SB25R	02/26/18	<1.0	<1.0	<1.0	<2.0
SB25R	05/21/18	<1.0	<1.0	<1.0	<2.0
SB25R	08/27/18	<1.0	<1.0	<1.0	<2.0
SB25R	11/09/18	<1.0	<1.0	<1.0	<2.0
SB25R	02/25/19	<1.0	<1.0	<1.0	<2.0
SB26	02/24/14	<1.0	<1.0	<1.0	<1.0
SB26	05/19/14	3.0	<5.0	<1.0	<3.0
SB26	08/29/14	<1.0	<5.0	<1.0	<3.0
SB26	11/21/14	<1.0	<5.0	<1.0	<3.0
SB26	02/13/15	<1.0	<5.0	<1.0	<3.0
SB26	05/21/15	<1.0	<5.0	<1.0	<3.0
SB26	08/27/15	<1.0	<5.0	<1.0	<3.0
SB26	11/24/15	<1.0	<5.0	<1.0	<3.0
SB26	02/22/16	<1.0	<5.0	<1.0	<3.0
SB26	05/23/16	<1.0	<1.0	<1.0	<1.0
SB26	08/15/16	<1.0	<1.0	<1.0	<1.0
SB26	11/21/16	<1.0	<1.0	<1.0	<1.0
SB26	02/16/17	<1.0	<1.0	<1.0	<1.0
SB26	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB27	02/24/14	Not Sampled - Insufficient Water			
SB27	05/19/14	Not Sampled - Insufficient Water			
SB27	08/29/14	Not Sampled - Insufficient Water			
SB27	11/21/14	Not Sampled - Insufficient Water			
SB27	02/13/15	Not Sampled - Insufficient Water			
SB27	05/21/15	Not Sampled - Insufficient Water			
SB27	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB27R	02/24/14	<1.0	<1.0	<1.0	<1.0
SB27R	05/19/14	**16**	<5.0	<1.0	<3.0
SB27R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB27R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB27R	02/13/15	<1.0	<5.0	<1.0	<3.0
SB27R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB27R	08/27/15	<1.00	<5.00	<1.00	<3.00
SB27R	11/24/15	<1.00	<5.00	<1.00	<3.00
SB27R	02/22/16	<1.00	<5.00	<1.00	<3.00
SB27R	05/23/16	<1.0	<1.0	<1.0	<1.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB27R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB27R	11/21/16	<1.0	<1.0	<1.0	<1.0
SB27R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB27R	05/12/17	<1.0	<1.0	<1.0	<2.0
SB27R	08/24/17	<1.0	<1.0	<1.0	<2.0
SB27R	11/20/17	<1.0	<1.0	<1.0	11
SB27R	02/26/18	<1.0	<1.0	<1.0	<2.0
SB27R	05/21/18	<1.0	<1.0	<1.0	<2.0
SB27R	08/27/18	<1.0	<1.0	<1.0	<2.0
SB27R	11/09/18	<1.0	<1.0	<1.0	<2.0
SB27R	02/25/19	<1.0	<1.0	<1.0	<2.0
SB28	02/24/14	Not Sampled - Insufficient Water			
SB28	05/19/14	Not Sampled - Insufficient Water			
SB28	08/29/14	Not Sampled - Insufficient Water			
SB28	11/21/14	Not Sampled - Insufficient Water			
SB28	02/13/15	Not Sampled - Insufficient Water			
SB28	05/21/15	Not Sampled - Insufficient Water			
SB28	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB28R	02/24/14	<1.0	<1.0	<1.0	3.01
SB28R	05/19/14	<1.0	<5.0	<1.0	<3.0
SB28R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB28R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB28R	02/13/15	<1.0	<5.0	<1.0	<3.0
SB28R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB28R	08/27/15	<1.0	<5.0	<1.0	<3.0
SB28R	11/24/15	<1.0	<5.0	<1.0	<3.0
SB28R	02/22/16	<1.0	<5.0	<1.0	<3.0
SB28R	05/23/16	<1.0	<1.0	<1.0	<1.0
SB28R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB28R	11/21/16	Not Sampled - Insufficient Water			
SB28R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB28R	05/12/17	<1.0	<1.0	<1.0	<2.0
SB28R[1]	08/24/17	<1.0	<1.0	<1.0	<2.0
SB28R[1]	11/20/17	<1.0	<1.0	<1.0	<2.0
SB28R[1]	02/26/18	<1.0	<1.0	<1.0	<2.0
SB28R	05/21/18	<1.0	<1.0	<1.0	<2.0
SB28R	08/27/18	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB28R	11/09/18	<1.0	<1.0	<1.0	<2.0
SB28R	02/25/19	<1.0	<1.0	<1.0	<2.0
SB29	02/24/14	<1.0	<1.0	<1.0	<1.0
SB29	05/19/14	<1.0	<5.0	<1.0	<3.0
SB29	08/29/14	<1.0	<5.0	<1.0	<3.0
SB29	11/21/14	<1.0	<5.0	<1.0	<3.0
SB29	02/13/15	<1.0	<5.0	<1.0	<3.0
SB29	05/21/15	<1.0	<5.0	<1.0	<3.0
SB29	08/27/15	<1.0	<5.0	<1.0	<3.0
SB29	11/24/15	<1.0	<5.0	<1.0	<3.0
SB29	02/22/16	<1.0	<5.0	<1.0	<3.0
SB29	05/23/16	<1.0	<1.0	<1.0	<1.0
SB29	08/15/16	<1.0	<1.0	<1.0	<1.0
SB29	11/21/16	<1.0	<1.0	<1.0	<1.0
SB29	02/16/17	<1.0	<1.0	<1.0	<1.0
SB29	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB30	02/24/14	**Not Sampled - LNAPL Present**			
SB30	05/19/14	**Not Sampled - LNAPL Present**			
SB30	08/29/14	**Not Sampled - LNAPL Present**			
SB30	11/21/14	**Not Sampled - LNAPL Present**			
SB30	02/13/15	**Not Sampled - LNAPL Present**			
SB30	05/21/15	**Not Sampled - LNAPL Present**			
SB30	08/27/15	**Not Sampled - LNAPL Present**			
SB30	11/24/15	**Not Sampled - LNAPL Present**			
SB30	02/22/16	**Not Sampled - LNAPL Present**			
SB30	02/22/16	**Not Sampled - LNAPL Present**			
SB30	08/15/16	**Not Sampled - LNAPL Present**			
SB30	11/21/16	**Not Sampled - LNAPL Present**			
SB30	02/16/17	**Not Sampled - LNAPL Present**			
SB30	05/12/17	**Not Sampled - Spill Buster Present**			
SB30	08/24/17	**Not Sampled - LNAPL Present**			
SB30	11/20/17	**Not Sampled - LNAPL Present**			
SB30	02/26/18	**Not Sampled - LNAPL Present**			
SB30	05/18/18	**Not Sampled - LNAPL Present**			
SB30	08/27/18	**Not Sampled - LNAPL Present**			
SB30	11/06/18	**Not Sampled - LNAPL Present**			
SB30	02/25/19	**Not Sampled - LNAPL Present**			

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB31	02/24/14		**Not Sampled - LNAPL Present**		
SB31	05/19/14		**Not Sampled - LNAPL Present**		
SB31	08/29/14		**Not Sampled - LNAPL Present**		
SB31	11/21/14		**Not Sampled - LNAPL Present**		
SB31	02/13/15		**Not Sampled - LNAPL Present**		
SB31	05/21/15		**Not Sampled - LNAPL Present**		
SB31	08/27/15		**Not Sampled - LNAPL Present**		
SB31	02/22/16		**Not Sampled - LNAPL Present**		
SB31	02/22/16		**Not Sampled - LNAPL Present**		
SB31	05/23/16		**Not Sampled - LNAPL Present**		
SB31	08/15/16		**Not Sampled - LNAPL Present**		
SB31	11/21/16		**Not Sampled - LNAPL Present**		
SB31	02/16/17		**Not Sampled - LNAPL Present**		
SB31	05/12/17		**Not Sampled - Spill Buster Present**		
SB31	08/24/17		**Not Sampled - LNAPL Present**		
SB31	11/20/17		**Not Sampled - LNAPL Present**		
SB31	02/26/18		**Not Sampled - LNAPL Present**		
SB31	05/18/18		**Not Sampled - LNAPL Present**		
SB31	08/27/18		**Not Sampled - LNAPL Present**		
SB31	11/06/18		**Not Sampled - LNAPL Present**		
SB31	02/25/19		**Not Sampled - LNAPL Present**		
SB32	02/24/14	1.1	6.2	<1.0	7.3
SB32	03/31/14	3.6	15	<1.0	18
SB32	05/19/14	**5.2**	38	1.2	91
SB32	08/29/14	4.9	30	1.8	220
SB32	11/21/14	<1.0	<5.0	<1.0	7.1
SB32	02/13/15	<1.0	<5.0	<1.0	<3.0
SB32	05/21/15	<1.0	<5.0	<1.0	3.3
SB32	08/27/15		Not Sampled - Insufficient Water		
SB32	11/24/15		Not Sampled - Insufficient Water		
SB32	02/22/16		Not Sampled - Insufficient Water		
SB32	05/23/16		Not Sampled - Insufficient Water		
SB32	08/15/16		Not Sampled - Insufficient Water		
SB32	11/21/16		Not Sampled - Insufficient Water		
SB32	02/16/17		Not Sampled - Insufficient Water		
SB32	05/12/17		Not Sampled - Insufficient Water		
SB32	08/24/17		Not Sampled - Insufficient Water		

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB32	11/20/17	Not Sampled - Insufficient Water			
SB32	02/26/18	Not Sampled - Insufficient Water			
SB32	05/18/18	Not Sampled - Insufficient Water			
SB32	08/27/18	Not Sampled - Insufficient Water			
SB32	11/06/18	Not Sampled - Insufficient Water			
SB32	02/25/19	Not Sampled - Insufficient Water			
SB33	02/24/14	Not Sampled - Insufficient Water			
SB33	05/19/14	Not Sampled - Insufficient Water			
SB33	08/29/14	<1.0	<5.0	<1.0	<3.0
SB33	11/21/14	<1.0	<5.0	<1.0	<3.0
SB33	02/13/15	<1.0	<5.0	<1.0	6.2
SB33	05/21/15	<1.0	<5.0	<1.0	<3.0
SB33	08/27/15	<1.0	<5.0	<1.0	<3.0
SB33	11/24/15	<1.0	<5.0	<1.0	<3.0
SB33	02/22/16	<1.0	<5.0	<1.0	<3.0
SB33	05/23/16	<1.0	<1.0	<1.0	<1.0
SB33	08/15/16	<1.0	<1.0	<1.0	<1.0
SB33	11/21/16	<1.0	<1.0	<1.0	<1.0
SB33	02/16/17	<1.0	<1.0	<1.0	<1.0
SB33	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB34	02/24/14	<1.0	<1.0	<1.0	<1.0
SB34	05/19/14	1.1	<5.0	<1.0	<3.0
SB34	08/29/14	<1.0	<5.0	<1.0	<3.0
SB34	11/21/14	<1.0	<5.0	<1.0	<3.0
SB34	02/13/15	<1.0	<5.0	<1.0	<3.0
SB34	05/21/15	<1.0	<5.0	<1.0	<3.0
SB34	08/27/15	<1.0	<5.0	<1.0	<3.0
SB34	11/24/15	<1.0	<5.0	<1.0	<3.0
SB34	02/22/16	<1.0	<5.0	<1.0	<3.0
SB34	05/23/16	<1.0	<1.0	<1.0	<1.0
SB34	08/15/16	<1.0	<1.0	<1.0	<1.0
SB34	11/21/16	<1.0	<1.0	<1.0	<1.0
SB34	02/16/17	<1.0	<1.0	<1.0	<1.0
SB34	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB35	03/31/14	<1.0	<5.0	<1.0	<3.0
SB35	05/19/14	<1.0	<5.0	<1.0	<3.0
SB35	08/29/14	<1.0	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB35	11/21/14	<1.0	<5.0	<1.0	<3.0
SB35	02/13/15	<1.0	<5.0	<1.0	<3.0
SB35	05/21/15	<1.0	<5.0	<1.0	<3.0
SB35	08/27/15	<1.0	<5.0	<1.0	<3.0
SB35	11/24/15	<1.0	<5.0	<1.0	<3.0
SB35	02/22/16	<1.0	<5.0	<1.0	<3.0
SB35	05/23/16	<1.0	<1.0	<1.0	<1.0
SB35	08/15/16	<1.0	<1.0	<1.0	<1.0
SB35	11/21/16	<1.0	<1.0	<1.0	<1.0
SB35	02/16/17	<1.0	<1.0	<1.0	<1.0
SB35	05/12/17	<1.0	<1.0	<1.0	<2.0
SB35	08/24/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB36	03/31/14	**77**	<5.0	3.2	<3.0
SB36	05/19/14	**220**	<5.0	<1.0	<3.0
SB36	08/29/14	**240**	<5.0	4.7	<3.0
SB36	11/21/14	**120**	<25	6	<15
SB36	02/13/15	**64**	<25	170	<15
SB36	05/21/15	**36**	<25	480	<15
SB36	08/27/15	**140**	<25	27.5	**2,460**
SB36	11/24/15	**22.5**	<5.0	<1.0	714
SB36	02/22/16	<5.0	<25	<5.0	114
SB36	05/23/16	<1.0	<1.0	<1.0	140
SB36	08/15/16	<1.0	<1.0	<1.0	21
SB36	11/21/16	3.2	1.5	21	160
SB36	02/16/17	4.4	<1.0	49	100
SB36	05/12/17	6.0	1.7	54	46
SB36	08/24/17	<1.0	<1.0	<1.0	<2.0
SB36	11/20/17	**5.6**	4.3	50	6.7
SB36	02/26/18	1.6	<1.0	3.8	<2.0
SB36	05/21/18	<1.0	<1.0	<1.0	<2.0
SB36	08/27/18	<1.0	<1.0	<1.0	<2.0
SB36	11/09/18	<1.0	<1.0	<1.0	<2.0
SB36	02/25/19	<1.0	<1.0	<1.0	<2.0
SB37	03/31/14	Not Sampled - Insufficient Water			
SB37	05/19/14	**40**	80	<1.0	1,100
SB37	08/29/14	**680**	**1,000**	<20	**2,700**
SB37	11/21/14	**390**	470	<20	1,300

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB37	02/13/15	**370**	**940**	<20	**5,000**
SB37	05/21/15	**150**	200	<20	1,300
SB37	08/27/15	**162**	**872**	20.2	**1,980**
SB37	11/24/15	**263**	**4,100**	129	**7,670**
SB37	02/22/16	**488**	**8,070**	290	**10,200**
SB37	05/23/16		**Not Sampled - LNAPL Present**		
SB37	08/15/16		**Not Sampled - LNAPL Present**		
SB37	11/21/16		**Not Sampled - LNAPL Present**		
SB37	02/16/17		**Not Sampled - LNAPL Present**		
SB37	05/12/17		**Not Sampled - LNAPL Present**		
SB37	08/24/17		**Not Sampled - LNAPL Present**		
SB37	11/20/17		**Not Sampled - LNAPL Present**		
SB37	02/26/18		**Not Sampled - LNAPL Present**		
SB37	05/18/18		**Not Sampled - LNAPL Present**		
SB37	08/27/18		**Not Sampled - LNAPL Present**		
SB37	11/06/18		**Not Sampled - LNAPL Present**		
SB37	02/25/19		**Not Sampled - LNAPL Present**		
SB38	03/31/14	**14**	10	3.1	32
SB38	05/19/14	**16**	<5.0	<1.0	<3.0
SB38	08/29/14	<1.0	<5.0	<1.0	<3.0
SB38	11/21/14	<1.0	<5.0	<1.0	<3.0
SB38	02/13/15	<1.0	<5.0	<1.0	<3.0
SB38	05/21/15	<1.0	<5.0	<1.0	<3.0
SB38	08/27/15	**136**	<5.0	<1.0	<3.0
SB38	11/24/15	3.16	<5.0	<1.0	<3.0
SB38	02/22/16	2.11	<5.0	<1.0	<3.0
SB38	05/23/16	1.7	<1.0	<1.0	<1.0
SB38	08/15/16	<1.0	<1.0	<1.0	<1.0
SB38	11/21/16	<1.0	<1.0	<1.0	<1.0
SB38	02/16/17	<1.0	<1.0	<1.0	<1.0
SB38	05/12/17	<1.0	<1.0	<1.0	<2.0
SB38	08/24/17	<1.0	<1.0	<1.0	<2.0
SB38	11/20/17	<1.0	<1.0	<1.0	4.2
SB38	02/26/18	<1.0	<1.0	<1.0	<2.0
SB38	05/21/18	<1.0	<1.0	<1.0	<2.0
SB38	08/27/18	<1.0	<1.0	<1.0	<2.0
SB38	11/09/18	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB38	02/25/19	1.0	<1.0	<1.0	<2.0
SB39	04/18/14	<1.0	<5.0	<1.0	<3.0
SB39	05/19/14	<1.0	<5.0	<1.0	<3.0
SB39	08/29/14	<1.0	<5.0	<1.0	<3.0
SB39	11/21/14	<1.0	<5.0	<1.0	<3.0
SB39	02/13/15	<1.0	<5.0	<1.0	<3.0
SB39	05/21/15	<1.0	<5.0	<1.0	<3.0
SB39	08/27/15	<1.0	<5.0	<1.0	<3.0
SB39	11/24/15	<1.0	<5.0	<1.0	<3.0
SB39	02/22/16	<1.0	<5.0	<1.0	<3.0
SB39	05/23/16	<1.0	<1.0	<1.0	<1.0
SB39	08/15/16	<1.0	<1.0	<1.0	<1.0
SB39	11/21/16	<1.0	<1.0	<1.0	<1.0
SB39	02/16/17	<1.0	<1.0	<1.0	<1.0
SB39	05/12/17	<1.0	<1.0	<1.0	<2.0
SB39	08/24/17	<1.0	<1.0	<1.0	<2.0
SB39	11/20/17	<1.0	<1.0	<1.0	<2.0
SB39	02/26/18	<1.0	<1.0	<1.0	<2.0
SB39	05/21/18	<1.0	<1.0	<1.0	<2.0
SB39	08/27/18	<1.0	<1.0	<1.0	<2.0
SB39	11/09/18	<1.0	<1.0	<1.0	<2.0
SB39	02/25/19	<1.0	<1.0	<1.0	<2.0
SB40	04/18/14	<1.0	<5.0	<1.0	<3.0
SB40	05/19/14	<1.0	<5.0	<1.0	<3.0
SB40	08/29/14	<1.0	<5.0	<1.0	<3.0
SB40	11/21/14	<1.0	<5.0	<1.0	<3.0
SB40	02/13/15	<1.0	<5.0	<1.0	<3.0
SB40	05/21/15	<1.0	<5.0	<1.0	<3.0
SB40	08/27/15	<1.0	<5.0	<1.0	<3.0
SB40	11/24/15	<1.0	<5.0	<1.0	<3.0
SB40	02/22/16	<1.0	<5.0	<1.0	<3.0
SB40	05/23/16	<1.0	<1.0	<1.0	<1.0
SB40	08/15/16	<1.0	<1.0	<1.0	<1.0
SB40	11/21/16	<1.0	<1.0	<1.0	<1.0
SB40	02/16/17	<1.0	<1.0	<1.0	<1.0
SB40	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB41	04/18/14	<1.0	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
SB41	05/19/14	<1.0	<5.0	<1.0	<3.0
SB41	08/29/14	<1.0	<5.0	<1.0	<3.0
SB41	11/21/14	<1.0	<5.0	<1.0	<3.0
SB41	02/13/15	<1.0	<5.0	<1.0	<3.0
SB41	05/21/15	<1.0	<5.0	<1.0	<3.0
SB41	08/27/15	<1.0	<5.0	<1.0	<3.0
SB41	11/24/15	<1.0	<5.0	<1.0	<3.0
SB41	02/22/16	<1.0	<5.0	<1.0	<3.0
SB41	05/23/16	<1.0	<1.0	<1.0	<1.0
SB41	08/15/16	<1.0	<1.0	<1.0	<1.0
SB41	11/21/16	<1.0	<1.0	<1.0	<1.0
SB41	02/16/17	<1.0	<1.0	<1.0	<1.0
SB41	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB42	04/18/14	<1.0	<5.0	<1.0	<3.0
SB42	05/19/14	<1.0	<5.0	<1.0	<3.0
SB42	08/29/14	<1.0	<5.0	<1.0	<3.0
SB42	11/21/14	<1.0	<5.0	<1.0	<3.0
SB42	02/13/15	<1.0	<5.0	<1.0	<3.0
SB42	05/21/15	<1.0	<5.0	<1.0	<3.0
SB42	08/27/15	<1.0	<5.0	<1.0	<3.0
SB42	11/24/15	<1.0	<5.0	<1.0	<3.0
SB42	02/22/16	<1.0	<5.0	<1.0	<3.0
SB42	05/23/16	<1.0	<1.0	<1.0	<1.0
SB42	08/15/16	<1.0	<1.0	<1.0	<1.0
SB42	11/21/16	<1.0	<1.0	<1.0	<1.0
SB42	02/16/17	<1.0	<1.0	<1.0	<1.0
SB42	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
DUP (SB06)	02/24/14	<1.0	<1.0	<1.0	<1.0
DUP (SB08)	05/19/14	**6,000**	**16,000**	540	**12,000**
DUP (SB22R)	08/29/14	**290**	**700**	<20	**2,200**
DUP (SB37)	11/21/14	**400**	530	<20	**1,400**
DUP (SB37)	08/27/15	**176**	**899**	20.3	**2,000**
DUPE (SB37)	11/24/15	**233**	**1,080**	70.5	**1,730**
DUPE (SB37)	02/22/16	**295**	**4,310**	170	**6,270**
Dupe01 (SB10)	02/16/17	**5,100**	**2,600**	**840**	**11,000**
Dup (SB07)	08/24/17	**2,500**	260	170	**3,700**
Dup (SB23R)	11/20/17	**4,500**	**17,000**	410	**14,000**
Dup (SB08)	02/26/18	**6,100**	**680**	510	**7,600**

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Groundwater Standard (µg/L)		**5**	**560**	**700**	**1,400**
DUP (SB08)	05/21/18	**4,500**	130	100	**8,100**
DUP (SB07)	08/27/18	**190**	<1.0	77	690
Duplicate (SB08)	11/09/18	**5,200**	140	410	**7,800**
Duplicate (SB08)	02/25/19	**1,900**	**980**	470	**4,500**
Trip Blank	02/24/14	<1.0	<1.0	<1.0	<1.0
Trip Blank	04/18/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	05/19/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	08/29/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	11/21/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	08/27/15	<1.0	<5.0	<1.0	<3.0
Trip Blank	11/24/15	<1.0	<5.0	<1.0	<3.0
Trip Blank	02/22/16	<1.0	<5.0	<1.0	<3.0
Red Cooler (TB-1)	11/18/16	<1.0	<1.0	<1.0	<1.0
Blue Cooler (TB-2)	11/18/16	<1.0	<1.0	<1.0	<1.0
Trip Blank Blue	02/16/17	<1.0	<1.0	<1.0	<1.0
Trip Blank Red	02/16/17	<1.0	<1.0	<1.0	<1.0
Trip Blank	05/11/17	<1.0	<1.0	<1.0	<2.0
Trip Blank 01	08/24/17	<1.0	<1.0	<1.0	<2.0
Trip Blank 1	11/20/17	<1.0	<1.0	<1.0	<2.0
Trip Blank	02/26/18	<1.0	<1.0	<1.0	<2.0
Trip Blank	05/21/18	<1.0	<1.0	<1.0	<2.0
Trip Blank	08/27/18	<1.0	<1.0	<1.0	<2.0
Trip Blank	11/09/18	<1.0	<1.0	<1.0	<2.0
Trip Blank	02/25/19	<1.0	<1.0	<1.0	<2.0

Notes:

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

< = Analytical result is less than the indicated laboratory reporting limit

LNAPL = Light non-aqueous phase liquid

DUP = Duplicate sample

[1] Well obstruction large enough to block meter sensor, small enough to allow hydrasleeve deployment.

[2] Tasman recommended a reduced groundwater monitoring well network to Noble Energy on March 29, 2017 based on historical groundwater data.

[3] Diluted sample run was analyzed outside of holding time, but results are comparable with previous quarter. Therefore, sample results are viewed as estimated, but acceptable.

Groundwater standards referenced from COGCC Table 910-1

Highlighted results exceed the COGCC Table 910-1 standard

This table presents data collected by Tasman Geosciences. Historical data is presented in Attachment A of the Form 27 Site Assessment Report (COGCC Document #2148980)

TABLE 4
REMEDIATION SYSTEM AIR EMISSION DATA SUMMARY
Noble Energy: Fri 2-18

TASMAN GEOSCIENCES

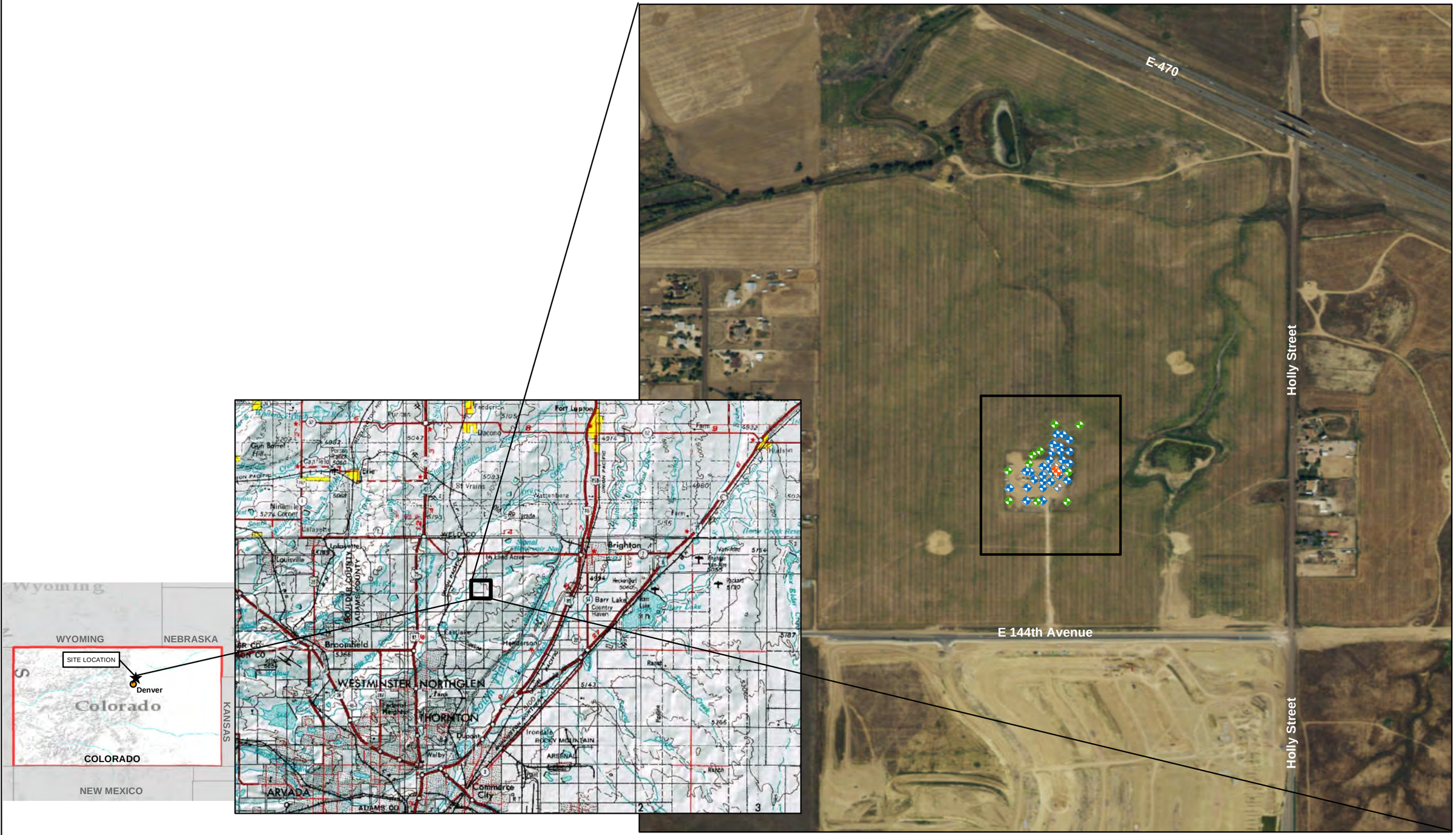
Soil Vapor Extraction 2019

Date	SVE Runtime Meter Reading	Period Incremental Operating Hours	Total Hours In Operating Period	Period Runtime Factor (%)	Effluent Temp (°F)	Sys Vacuum (inches of WC)	Effluent OVC (ppm)	Effluent Concentration (ug/m3)	Air Flow Rate (cfm)	Grams/cubic feet	grams/minute	Mass Extracted (lbs)		Incremental Mass Removed (lbs)	Cumulative Mass Removed 2019 (lbs)
												lbs/hour	lbs total		
12/7/2018	2,790.8	166.8	168	99%	46.2	-60.0	299.3	1,090,000	150.7	0.03087	4.6526	0.61502	102.5857	102.59	-
12/14/2018	2,958.5	167.7	168	100%	56.4	-60.3	289.3	639,000	147.8	0.01810	2.6754	0.35366	59.3088	59.31	-
12/21/2018	3,108.4	149.9	168	89%	60.7	-59.9	285.0	1,060,000	139.8	0.03002	4.1962	0.55468	83.1469	83.15	-
12/28/2018	3,276.5	168.1	168	100%	53.1	-60.9	166.1	1,000,000	167.5	0.02832	4.7443	0.62713	105.4211	105.42	-
1/4/2019	3,451.0	174.5	168	100%	65.2	-60.3	200.2	836,000	150.9	0.02368	3.5718	0.47214	82.3890	82.39	82.39
1/11/2019	3,613.8	162.8	168	100%	61.8	-57.8	129.4	474,000	148.4	0.01342	1.9922	0.26335	42.8735	42.87	125.26
1/18/2019	3,762.2	148.4	168	88%	56.9	-57.2	111.7	318,000	150.7	0.00901	1.3569	0.17937	26.6184	26.62	151.88
1/25/2019	3,935.2	173.0	168	100%	51.8	-56.7	126.2	414,000	149.2	0.01172	1.7494	0.23126	40.0072	40.01	191.89
2/1/2019	4,094.3	159.1	168	100%	62.4	-60.3	101.4	456,000	141.7	0.01291	1.8299	0.24190	38.4856	38.49	230.37
2/8/2019	4,261.3	167.0	168	100%	54.3	-59.0	159.7	642,000	151.1	0.01818	2.7478	0.36323	60.6590	60.66	291.03
2/15/2019	4,427.3	166.0	168	100%	61.6	-59.0	199.6	1,020,000	147.1	0.02889	4.2481	0.56155	93.2172	93.22	384.25

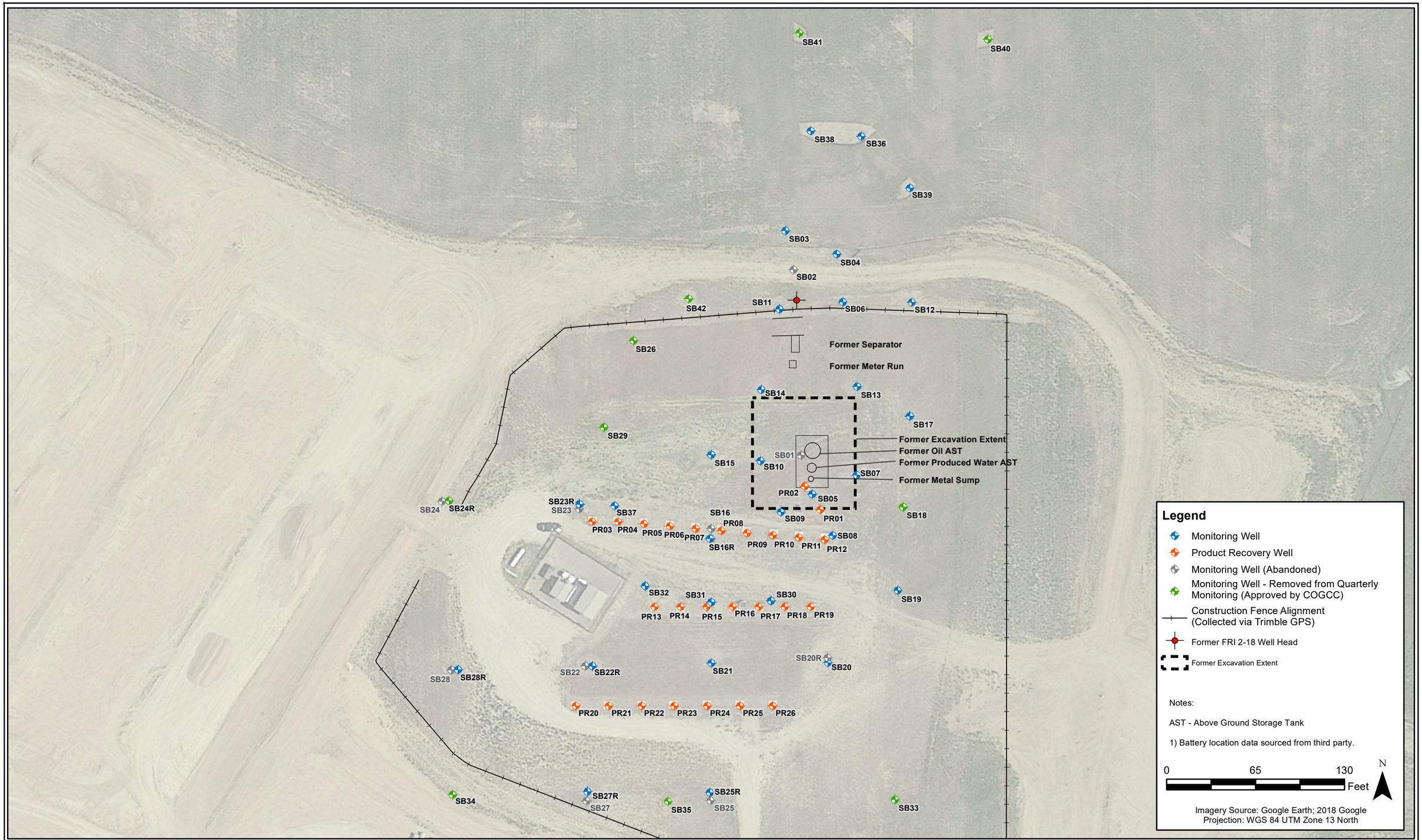
Notes:
HC: Hydrocarbon
OVC: Organic Vapor Concentration
WC: Water Column
° F : degrees fahrenheit
ppm: parts per million
cfm: cubic feet per minute
Effluent concentration is based on total petroleum hydrocarbons - gasoline range organics
No remediation system air emission laboratory analytical sample was collected on this date. Analytical data was extrapolated according to run time.

Total Pound Emitted 12/1/2018 - 2/15/2019	734.71
Total Pound Emitted 2019	384.25
Total Tons Emitted 2019	0.19212
Total Pounds Emitted 2018	1,400.92
Total Tons Emitted 2018	0.700
Total Pounds Emitted Since Startup	1,785.17
Total Tons Emitted Since Startup	0.89258

FIGURES



DATE: September 2017 DESIGNED BY: B. Bruns DRAWN BY: D. Arnold	TASMAN GEOSCIENCES **Tasman Geosciences, Inc.** **6899 Pecos Street - Unit C** **Denver, CO 80221**	**Noble Energy, Inc.** **Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location** Section 18, Township 1 South, Range 67 West Adams County, Colorado	Site Location Map	Figure 1



DATE:	March 2019
DESIGNED BY:	B.Bruns
DRAWN BY:	D. Arnold

TASMAN GEOSCIENCES

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

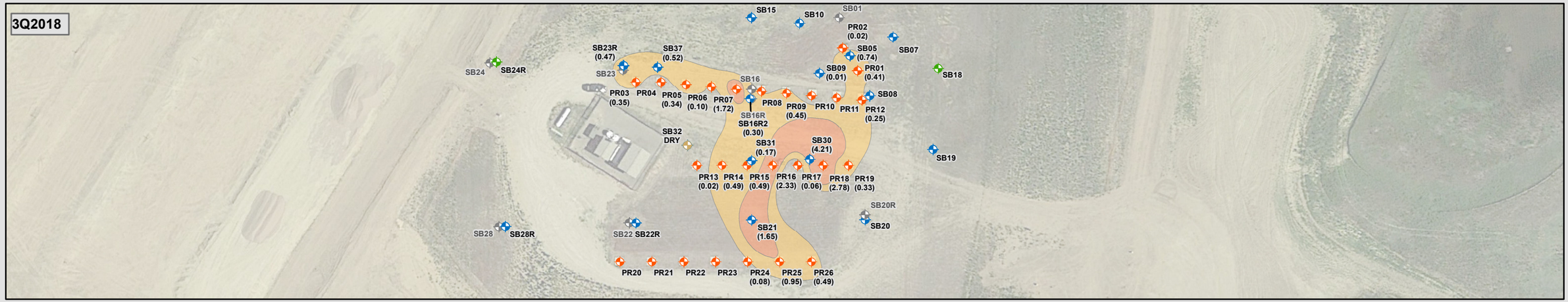
Noble Energy, Inc. - DJ Basin

Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location

Section 18, Township 1 South, Range 67 West
Adams County, Colorado

Site Overview Map

Figure 2



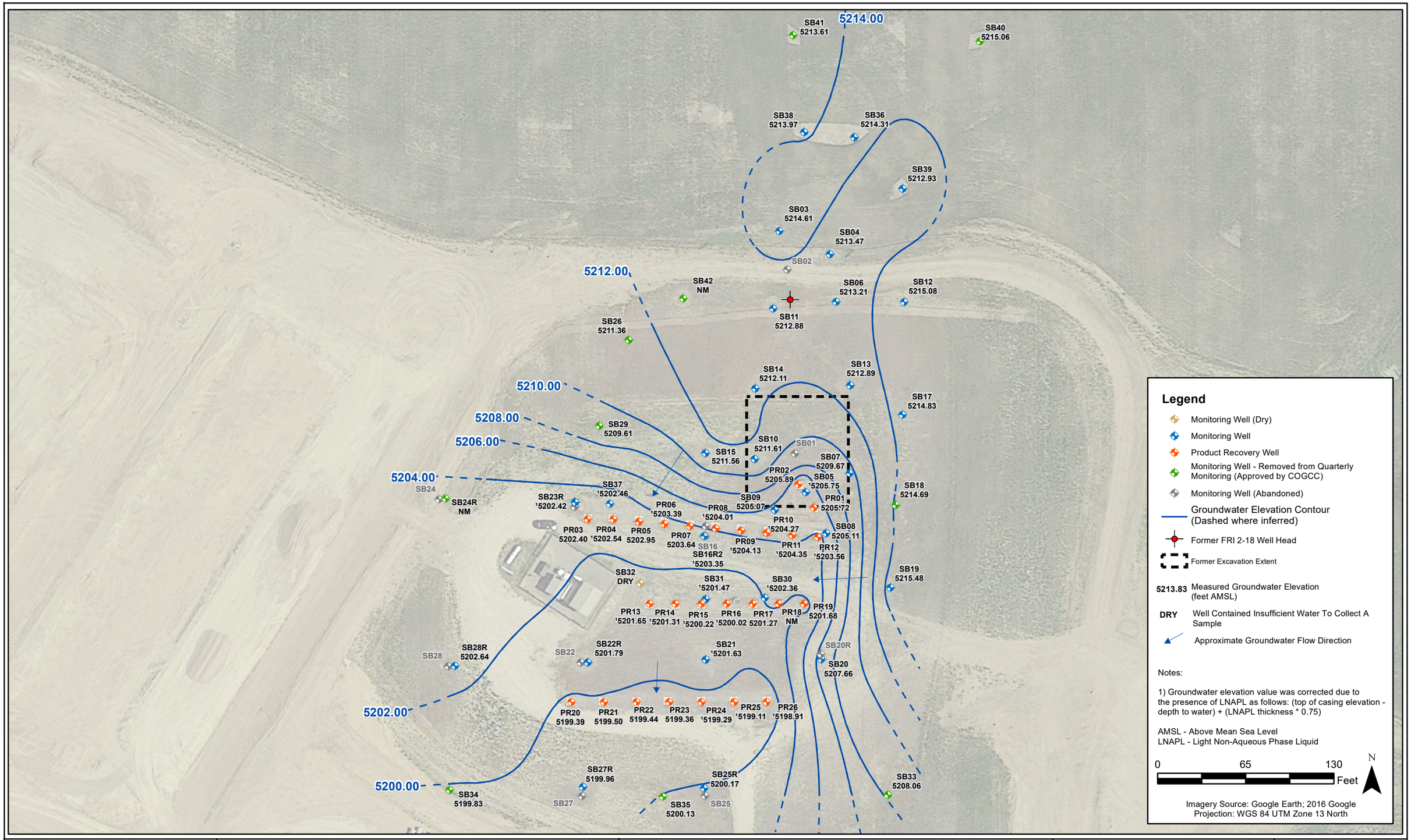
DATE:	March 2019
DESIGNED BY:	B.Bruns
DRAWN BY:	D. Arnold

TASMAN GEOSCIENCES
Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

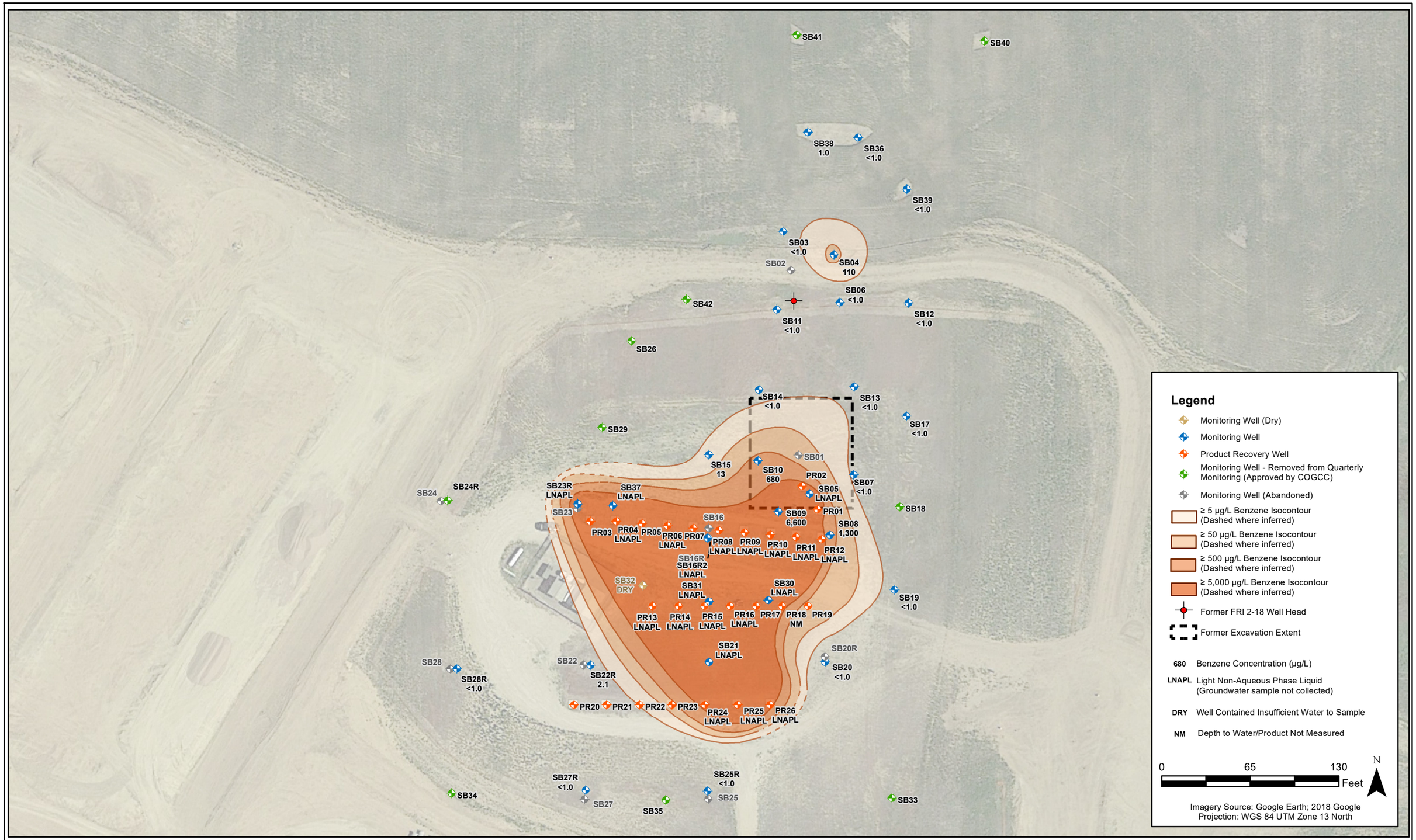
Noble Energy, Inc.
Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location
Section 18, Township 1 South, Range 67 West
Adams County, Colorado

LNAPL
Thickness Map
(3Q2018, 4Q2018, 1Q2019)

Figure
3



DATE: March 2019 DESIGNED BY: B.Bruns DRAWN BY: D. Arnold	TASMAN GEOSCIENCES Tasman Geosciences, Inc. 6899 Pecos Street - Unit C Denver, CO 80221	**Noble Energy, Inc. - DJ Basin** **Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location** Section 18, Township 1 South, Range 67 West Adams County, Colorado	Groundwater Potentiometric Surface Contour Map (2/22/2019)	Figure 4



DATE:	March 2019
DESIGNED BY:	B.Bruns
DRAWN BY:	D. Arnold

TASMAN GEOSCIENCES

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

Noble Energy, Inc. - DJ Basin

Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location

Section 18, Township 1 South, Range 67 West
Adams County, Colorado

Benzene in Groundwater Isoconcentration Contour Map (02/22/2019, 02/25/2019)

Figure 5

FIGURE 6
CUMULATIVE VOLUME OF GROUNDWATER & CONDENSATE REMOVED - GALLONS
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

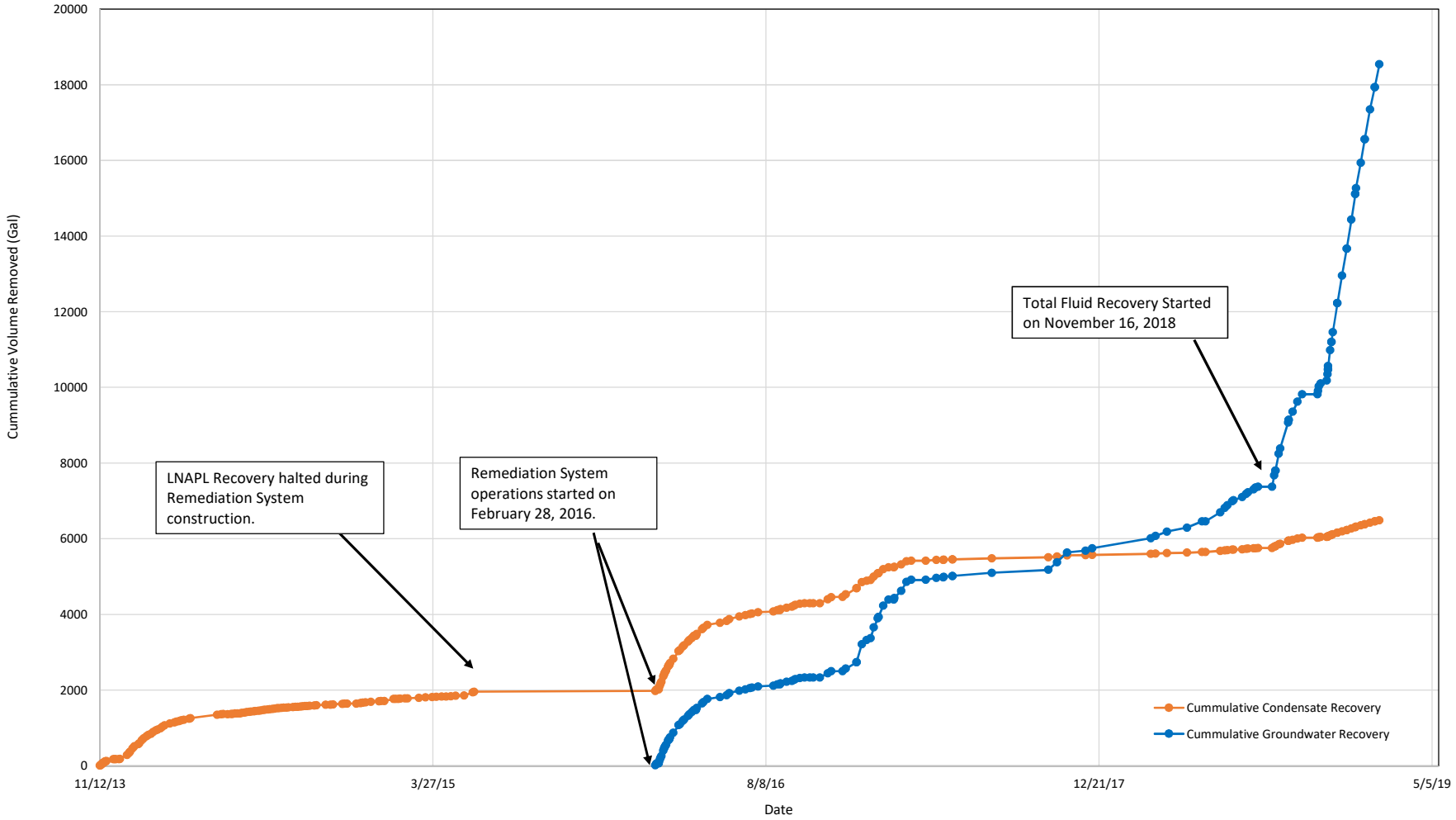


FIGURE 7
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION
TOTAL FLUIDS RECOVERY
(GALLONS PER DAY)

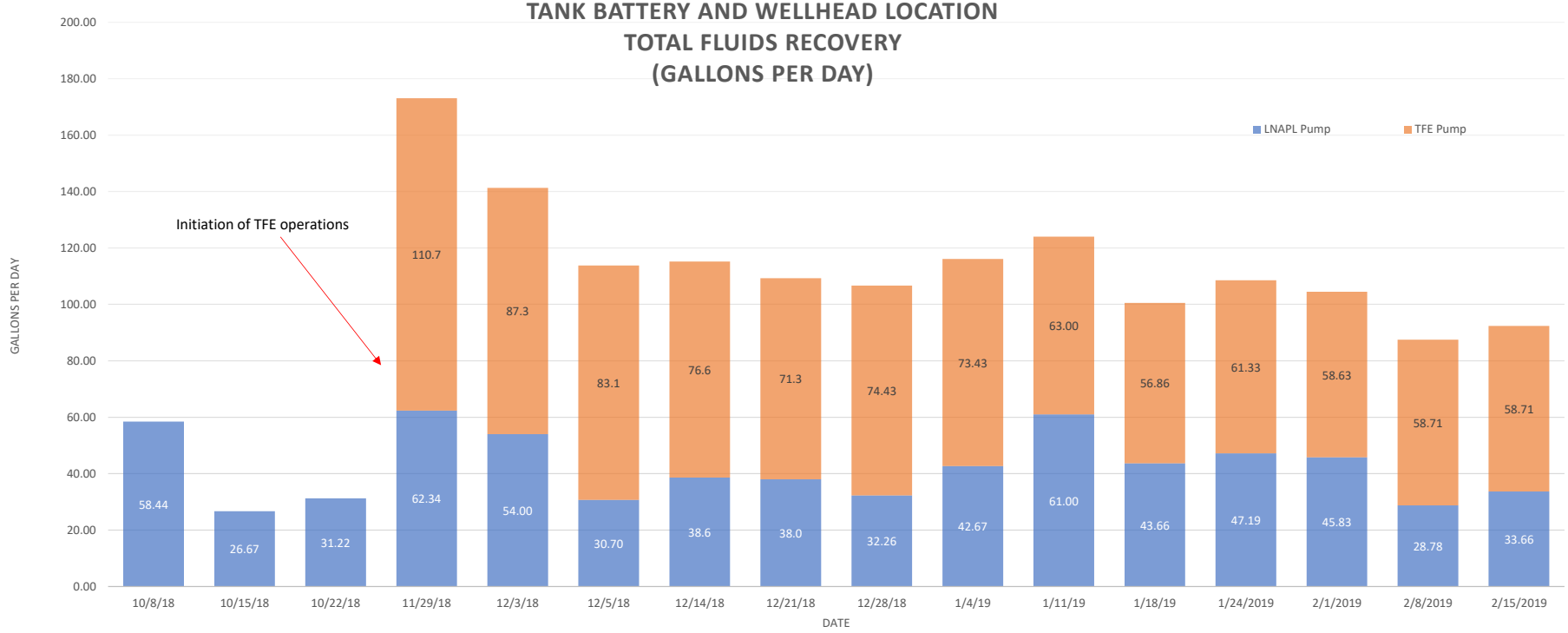
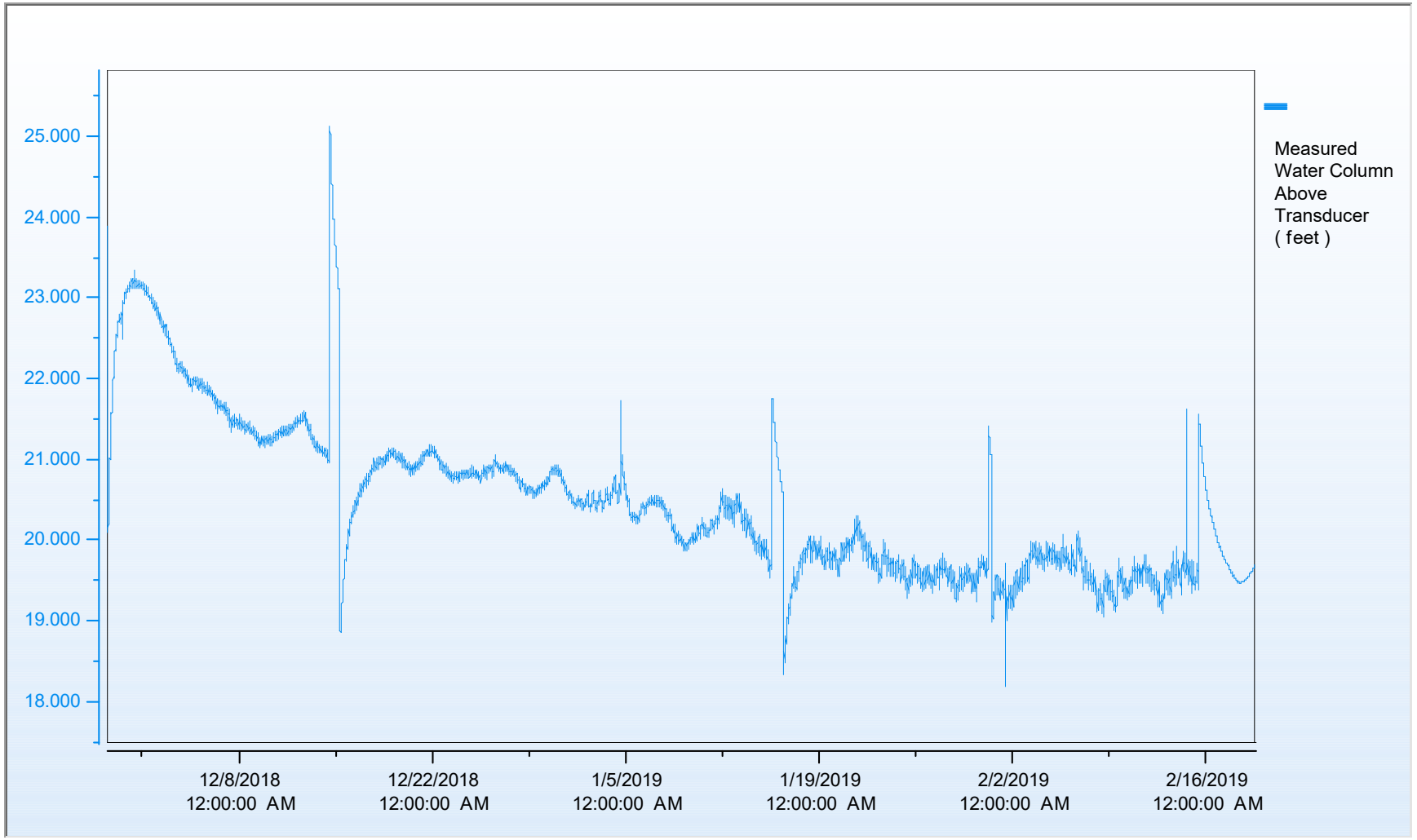
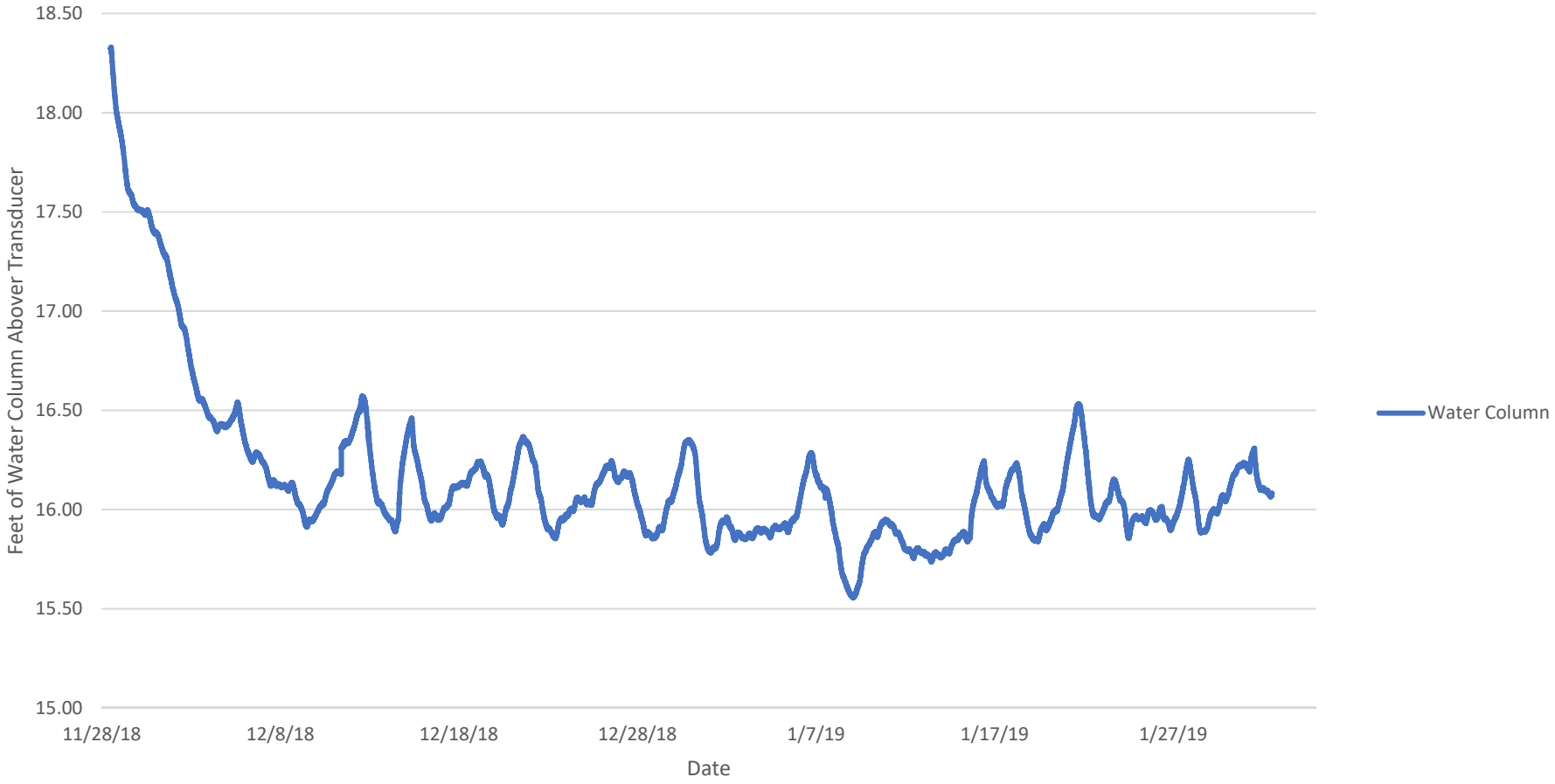


FIGURE 8
GROUNDWATER TABLE DRAWDOWN GRAPH OBSERVATION WELL - PR16
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



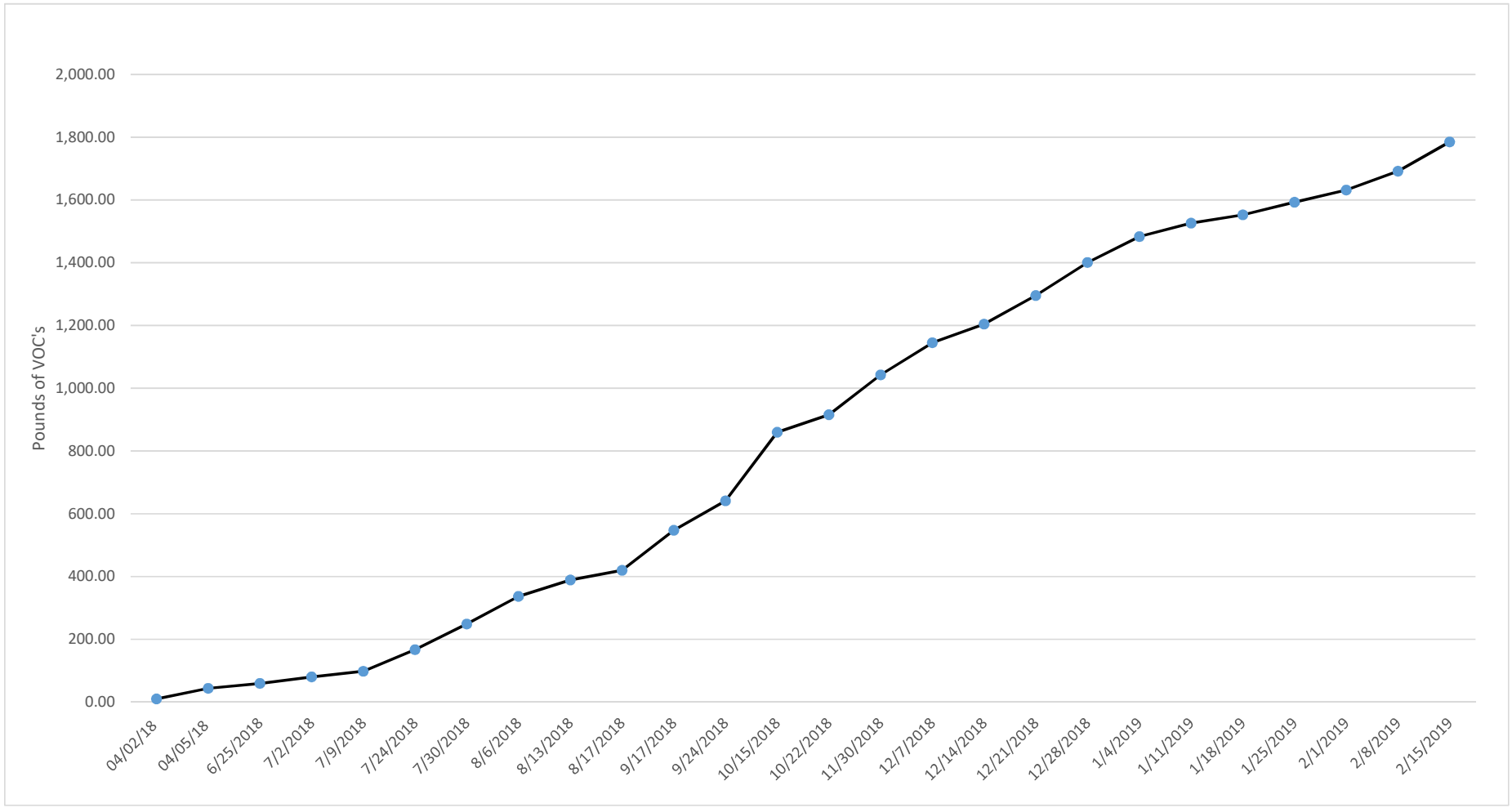
Distance to Closest Operational TFE Pump: 15 feet

FIGURE 9
GROUNDWATER TABLE DRAWDOWN GRAPH OBSERVATION WELL - SB30
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Distance to Closest Operational TFE Pump: 10 feet

FIGURE 10
CUMULATIVE SVE MASS REMOVAL
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



ATTACHMENT A

LABORATORY ANALYTICAL DATA REPORTS

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 04, 2019

Brandon Bruns

Tasman Geosciences

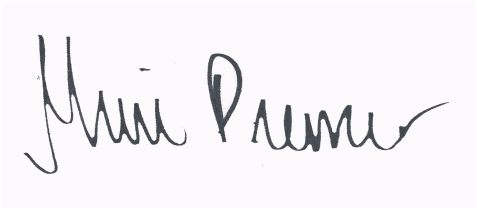
6899 Pecos St, Unit C

Denver, CO 80221

RE: Noble - Fri 2-18

Enclosed are the results of analyses for samples received by Summit Scientific on 02/25/19 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Muri Premer For Ben Shrewsbury

Laboratory Manager

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB03	1902240-01	Water	02/25/19 10:23	02/25/19 17:00
SB04	1902240-02	Water	02/25/19 12:43	02/25/19 17:00
SB06	1902240-03	Water	02/25/19 10:33	02/25/19 17:00
SB07	1902240-04	Water	02/25/19 13:00	02/25/19 17:00
SB08	1902240-05	Water	02/25/19 13:06	02/25/19 17:00
SB09	1902240-06	Water	02/25/19 13:15	02/25/19 17:00
SB10	1902240-07	Water	02/25/19 12:50	02/25/19 17:00
SB11	1902240-08	Water	02/25/19 10:48	02/25/19 17:00
SB12	1902240-09	Water	02/25/19 10:40	02/25/19 17:00
SB13	1902240-10	Water	02/25/19 12:30	02/25/19 17:00
SB14	1902240-11	Water	02/25/19 12:23	02/25/19 17:00
SB15	1902240-12	Water	02/25/19 12:36	02/25/19 17:00
SB17	1902240-13	Water	02/25/19 10:57	02/25/19 17:00
SB19	1902240-14	Water	02/25/19 11:14	02/25/19 17:00
SB20	1902240-15	Water	02/25/19 11:20	02/25/19 17:00
SB22R	1902240-16	Water	02/25/19 11:44	02/25/19 17:00
SB25R	1902240-17	Water	02/25/19 11:28	02/25/19 17:00
SB27R	1902240-18	Water	02/25/19 11:36	02/25/19 17:00
SB28R	1902240-19	Water	02/25/19 12:00	02/25/19 17:00
SB36	1902240-20	Water	02/25/19 10:08	02/25/19 17:00
SB38	1902240-21	Water	02/25/19 10:00	02/25/19 17:00
SB39	1902240-22	Water	02/25/19 10:16	02/25/19 17:00
DUPLICATE	1902240-23	Water	02/25/19 00:00	02/25/19 17:00
TRIP BLANK	1902240-24	Water	02/25/19 09:45	02/25/19 17:00

Summit Scientific

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

1902240.1

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:	6899 Pecos St	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO / 80233	Project Name:	Fri 2-18
Phone:	303-487-1228 Fax: -	Project Number:	
Sampler Name:	Max Garza, Graham Basecke, Alison Dahl		

				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
SB03	2/25/2019	1023	3	X				X				X								
SB04	↓	1243	↓	X				↓				↓								
SB06		1033		X																
SB07		1300				X														
SB08		1306		X																
SB09		1315		X																
SB10		1250				X														
SB11		1048		X																
SB12		1040		X																
SB13	↓	1230	↓	X				↓				↓								

Relinquished by: Alison Dahl	Date/Time: 2/25/19 1400	Received by: Tasman's Lock Box	Date/Time: 2/25/19 1400
Relinquished by: Tasman's Lock Box	Date/Time: 2-25-19 17:00	Received by: [signature]	Date/Time: 2-25-19 17:00
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: 2.0
Intact: Yes X No

Notes:

1902240.2

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:	6899 Pecos St	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO / 80233	Project Name:	Fri 2-18
Phone:	303-487-1228 Fax: -	Project Number:	
Sampler Name:	Max Garza, Graham Basecke, Alison Dahl		

				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
SB14	2/25/2019	1223	3	X				X				X								
SB15		1236																		
SB17		1057																		
SB19		1114																		
SB20		1120																		
SB22R		1144																		
SB25R		1128																		
SB27R		1136																		
SB28R		1200																		
SB36		1008																		

Relinquished by: Alli Dahl	Date/Time: 2/25/19 1400	Received by: Tasman's Lock Box	Date/Time: 2/25/19 1400
Relinquished by: Tasman's Lock Box	Date/Time: 2-25-19 17:00	Received by:	Date/Time: 2-25-19 17:00
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: 2.0
Intact: Yes X No

Notes:

1902240.3

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:	6899 Pecos St	E-Mail:	Bbruns@tasman-geo.com
City/State/Zip:	Denver / CO / 80233	Project Name:	Fri 2-18
Phone:	303-487-1228 Fax: -	Project Number:	
Sampler Name:	Max Garza, Graham Basecke, Alison Dahl		

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
SB 38	2/25/2019	1000	3	X				X				X				
SB 39	"	1016	"	"				"				"				
Duplicate	"	—	"	"				"				"				
Trip Blank	"	0945	1	"				"				"				

Relinquished by: Alison Dahl	Date/Time: 2/25/19 1400	Received by: Tasman's Lock Box	Date/Time: 2/25/19 1400
Relinquished by: Tasman's Lock Box	Date/Time: 2-25-19 17:00	Received by: [signature]	Date/Time: 2-25-19 17:00
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: 2.0
Intact: Yes X No

Notes:

Sample Receipt Checklist

S2 Work Order 1902250

Client: NOBLE/TASMAN Client Project ID: FRI 2-18

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

Matrix (check all that apply): _____Air _____Soil/Solid __X__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.	X			ON ICE
Were all samples received intact [1]?	X			
Was adequate sample volume provided [1]?	X			
If custody seals are present, are they intact [1]?			X	
Are samples with holding times due within 48 hours sample due within 48 hours present?			X	
Is a chain-of-custody (COC) form present and filled out completely [1]?	X			
Does the COC agree with the number and type of sample bottles received [1]?	X			
Do the sample IDs on the bottle labels match the COC [1]?	X			
Is the COC properly relinquished by the client w/ date and time recorded [1]?	X			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**		X		
Are samples preserved that require preservation **(excluding cooling)** [1]? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	X			SOME HCl
If samples are acid preserved for metals, is the pH ≤ 2 [1]? Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
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
Muri	[signature] 2-25-19	17:55

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB03

1902240-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*129 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB04

1902240-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**110**	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB06

1902240-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB07

1902240-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**1.4**	1.0	"	"	"	"	"	"	
Xylenes (total)	**470**	20	"	10	"	"	"	"	

Date Sampled: **02/25/19 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB08

1902240-05 (Water)

Summit Scientific

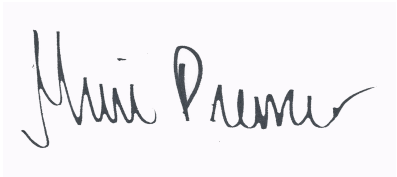
Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1300**	100	ug/l	100	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	**130**	100	"	"	"	"	"	"	
Ethylbenzene	**160**	100	"	"	"	"	"	"	
Xylenes (total)	**2400**	200	"	"	"	"	"	"	

Date Sampled: **02/25/19 13:06**

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		*91.4 %*	*21-167*		"	"	"	"	



S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB09

1902240-06 (Water)

Summit Scientific

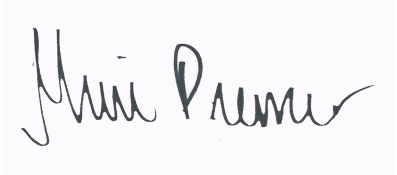
Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**6600**	100	ug/l	100	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	**15000**	100	"	"	"	"	"	"	
Ethylbenzene	**460**	100	"	"	"	"	"	"	
Xylenes (total)	**7700**	200	"	"	"	"	"	"	

Date Sampled: **02/25/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*97.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.3 %*	*21-167*		"	"	"	"	



S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB10

1902240-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**680**	100	ug/l	100	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	**370**	100	"	"	"	"	"	"	
Ethylbenzene	**160**	1.0	"	1	"	"	"	"	
Xylenes (total)	**740**	200	"	100	"	"	"	"	

Date Sampled: **02/25/19 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*124 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB11

1902240-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB12

1902240-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*131 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.1 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB13

1902240-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*136 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.1 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB14

1902240-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*125 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.1 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB15

1902240-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**13**	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 12:36**

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		*92.9 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB17

1902240-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB19

1902240-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 11:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 11:14**

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		*96.0 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB20

1902240-15 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	**8.0**	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 11:20**

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		*92.1 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB22R

1902240-16 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**2.1**	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB25R

1902240-17 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 11:28**

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		*92.3 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB27R

1902240-18 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*96.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB28R

1902240-19 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 12:00**

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		*95.3 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB36

1902240-20 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902318	02/26/19	03/03/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:08**

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		*96.7 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB38

1902240-21 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1.0**	1.0	ug/l	1	1902310	02/26/19	02/28/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*90.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

SB39

1902240-22 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902310	02/26/19	02/28/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

DUPLICATE

1902240-23 (Water)

Summit Scientific

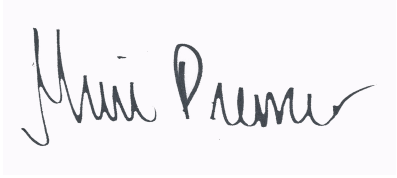
Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1900**	100	ug/l	100	1902310	02/26/19	02/28/19	EPA 8260B	
Toluene	**980**	100	"	"	"	"	"	"	
Ethylbenzene	**470**	100	"	"	"	"	"	"	
Xylenes (total)	**4500**	200	"	"	"	"	"	"	

Date Sampled: **02/25/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*141 %*	*21-167*		"	"	"	"	



S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

TRIP BLANK

1902240-24 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/25/19 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1902310	02/26/19	02/28/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/25/19 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.5 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*95.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*21-167*		"	"	"	"	

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.

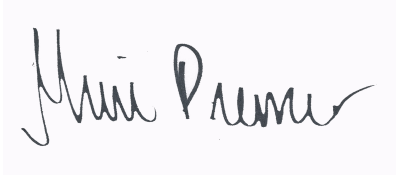
S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

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 1902310 - EPA 5030 Water MS										
Blank (1902310-BLK1)				Prepared: 02/26/19 Analyzed: 02/28/19						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*12.5*		*"*	*13.3*		*93.5*	*23-173*			
Surrogate: Toluene-d8	*12.8*		*"*	*13.3*		*96.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.0*		*"*	*13.3*		*97.4*	*21-167*			
LCS (1902310-BS1)				Prepared: 02/26/19 Analyzed: 02/28/19						
Benzene	48.6	1.0	ug/l	50.0		97.1	70-130			
Toluene	50.6	1.0	"	50.0		101	70-130			
Ethylbenzene	53.8	1.0	"	50.0		108	70-130			
m,p-Xylene	102	2.0	"	100		102	70-130			
o-Xylene	48.8	1.0	"	50.0		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*12.0*		*"*	*13.3*		*90.4*	*23-173*			
Surrogate: Toluene-d8	*12.8*		*"*	*13.3*		*96.3*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.0*		*"*	*13.3*		*97.1*	*21-167*			
Matrix Spike (1902310-MS1)	**Source: 1902246-01**			Prepared: 02/26/19 Analyzed: 02/28/19						
Benzene	55.2	1.0	ug/l	50.0	ND	110	70-130			
Toluene	57.2	1.0	"	50.0	ND	114	70-130			
Ethylbenzene	63.0	1.0	"	50.0	ND	126	70-130			
m,p-Xylene	117	2.0	"	100	1.15	116	70-130			
o-Xylene	56.3	1.0	"	50.0	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*"*	*13.3*		*81.4*	*23-173*			
Surrogate: Toluene-d8	*12.5*		*"*	*13.3*		*94.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.8*		*"*	*13.3*		*95.9*	*21-167*			



S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

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 1902310 - EPA 5030 Water MS										
Matrix Spike Dup (1902310-MSD1)	**Source: 1902246-01**			Prepared: 02/26/19 Analyzed: 02/28/19						
Benzene	53.6	1.0	ug/l	50.0	ND	107	70-130	2.90	30	
Toluene	55.2	1.0	"	50.0	ND	110	70-130	3.45	30	
Ethylbenzene	59.4	1.0	"	50.0	ND	119	70-130	5.78	30	
m,p-Xylene	110	2.0	"	100	1.15	109	70-130	5.95	30	
o-Xylene	53.3	1.0	"	50.0	ND	107	70-130	5.60	30	
Surrogate: 1,2-Dichloroethane-d4	*11.4*		*"*	*13.3*		*85.4*	*23-173*			
Surrogate: Toluene-d8	*12.8*		*"*	*13.3*		*95.9*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.6*		*"*	*13.3*		*94.3*	*21-167*			
Batch 1902318 - EPA 5030 Water MS										
Blank (1902318-BLK1)				Prepared: 02/26/19 Analyzed: 03/02/19						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*14.7*		*"*	*13.3*		*110*	*23-173*			
Surrogate: Toluene-d8	*13.9*		*"*	*13.3*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.4*		*"*	*13.3*		*93.2*	*21-167*			
LCS (1902318-BS1)				Prepared: 02/26/19 Analyzed: 03/02/19						
Benzene	27.3	1.0	ug/l	33.3		81.8	70-130			
Toluene	27.5	1.0	"	33.3		82.5	70-130			
Ethylbenzene	26.6	1.0	"	33.3		79.8	70-130			
m,p-Xylene	47.2	2.0	"	66.7		70.7	70-130			
o-Xylene	25.0	1.0	"	33.3		75.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*12.8*		*"*	*13.3*		*96.2*	*23-173*			
Surrogate: Toluene-d8	*16.0*		*"*	*13.3*		*120*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.0*		*"*	*13.3*		*97.9*	*21-167*			

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.

S2

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

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 1902318 - EPA 5030 Water MS										
Matrix Spike (1902318-MS1)	**Source: 1902240-01**			Prepared: 02/26/19 Analyzed: 03/02/19						
Benzene	28.6	1.0	ug/l	33.3	ND	85.8	70-130			
Toluene	30.7	1.0	"	33.3	ND	92.2	70-130			
Ethylbenzene	28.6	1.0	"	33.3	ND	85.8	70-130			
m,p-Xylene	51.0	2.0	"	66.7	ND	76.4	70-130			
o-Xylene	27.6	1.0	"	33.3	ND	82.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*14.3*		*"*	*13.3*		*107*	*23-173*			
Surrogate: Toluene-d8	*16.2*		*"*	*13.3*		*122*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.4*		*"*	*13.3*		*101*	*21-167*			
Matrix Spike Dup (1902318-MSD1)	**Source: 1902240-01**			Prepared: 02/26/19 Analyzed: 03/02/19						
Benzene	29.4	1.0	ug/l	33.3	ND	88.3	70-130	2.83	30	
Toluene	27.9	1.0	"	33.3	ND	83.6	70-130	9.79	30	
Ethylbenzene	29.5	1.0	"	33.3	ND	88.4	70-130	3.00	30	
m,p-Xylene	50.6	2.0	"	66.7	ND	75.9	70-130	0.670	30	
o-Xylene	28.3	1.0	"	33.3	ND	84.8	70-130	2.58	30	
Surrogate: 1,2-Dichloroethane-d4	*18.0*		*"*	*13.3*		*135*	*23-173*			
Surrogate: Toluene-d8	*14.1*		*"*	*13.3*		*106*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.0*		*"*	*13.3*		*90.4*	*21-167*			

Tasman Geosciences	Project: Noble - Fri 2-18	
6899 Pecos St, Unit C	Project Number: [none]	**Reported:**
Denver CO, 80221	Project Manager: Brandon Bruns	03/04/19 16:58

Notes and Definitions

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