

# **Dugan Production Corp**

## **Site Characterization and Reclamation Closure Report**

### **Sanchez O'Brien SWD # 001**

30-045-25298

L-06-24N-09W

1650 FSL 990 FWL

Incident ID: nAPP2318737964

Incident ID: nAPP2322050850

## Introduction

### Definitions

#### **Remediation:**

The containment, removal, or stabilization of contaminants from soil, significant water courses, and groundwater.

#### **Reclamation:**

Perform backfilling, compacting, and stabilizing to prevent erosion and ponding of water in impacted areas and reclaiming those areas to contain non-waste containing material based on final land use. OR a soil cover approved by federal, state, or tribal agencies on land managed or owned by those agencies that provide equal to or better protection of fresh water, human health, or the environment.

#### **Sensitive receptors:**

As defined by State Trust Land: include groundwater, continuously flowing or significant watercourse, lakebed, sinkhole, playa lake, spring, drinking water source, or wetland; or any regularly occupied structure including school, daycare, church, clinic, or residence; or any threatened, endangered, or sensitive wildlife or plant species habitat; or cave or other critical karst features; or sensitive soils.

### Site Description and Background

|                                     |  |
|-------------------------------------|--|
| <b>Operator:</b>                    | Dugan Production Corp.   |
| <b>Site Name:</b>                   | Sanchez O'Brien SWD # 001 (07/03/2023) (On-Site)   |
| <b>NM EMNRD OCD Incident ID No.</b> | nAPP2318737964 and nAPP2322050850  |
| <b>Location:</b>                    | 36.3403587° North, 107.8359222° West<br>Unit Letter L, Section 06, Township 24N, Range 09W<br>San Juan County, New Mexico                  |
| <b>Property:</b>                    | Federal  |
| <b>Regulatory:</b>                  | New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD); Bureau of Land Management (BLM) |

On July 3, 2023, a Dugan Operator discovered a produced water spill which affected 17,411 square feet of surface at the Sanchez O'Brien SWD # 001. The spill was caused by two bolts breaking off the top of one of the filter pods inside the pump house, due to overtightening which caused water to leak from the top of the filter pod.

On August 8, 2023, a Dugan Operator identified a produced water spill at the Sanchez O'Brien SWD #001 site, which impacted an area of 10,874.80 square feet. The spill was attributed to corrosion in the discharge pipeline located between the pump and the wellhead.

Initial response efforts focused on repairing the damaged section of the pipe and ensuring no waste caused further damage to the environment, wildlife or the public.

### **Project Objective**

The project objective was to reduce environmental contaminants to a safe level per the requirements of the NM OCD NMAC 19.15.29 and the BLM NT-3A MUE Rules.

### **Closure Criteria**

The Site is subject to regulatory oversight by the NM EMNRD OCD and BLM. Dugan Production Corp referenced 19.15.29 New Mexico Administrative Code (NMAC) and the BLM NT-3A MUE regulations which establishes investigation, abatement action, remediation, and reclamation requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the citing requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC and Subsection D of 19.2.24 NMAC. Dugan utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following data collection information are provided in **Appendix B**.

- Dugan Production conducted a liquid level measurement using an Echometer at the 16'Gs water well located at the Sanchez O'Brien #001 site on June 19, 2024. The fluid level in the well was recorded at a depth of 573 feet (**Appendix B: Figure A**).
- The New Mexico Office of the State Engineer (NMOSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. A search was conducted for Section 06, Township 24N, and Range 09W, and no data existed. The search was expanded to include all sections of township 24N and Range 09W, which provided data for three water wells. The water wells were found in Section 07, 27, and 25. The depth of the closest well to the Site was 1,073 feet and the three average is 742 feet (**Appendix B: Figure B**).
- The New Mexico Office of the State Engineer (NMOSE) provides an interactive mapping program, OSE POD Locations, which maps points of diversion (PODs). The PODs are each assigned POD numbers in the database which contains depth to water information. Utilizing this tool, an exploratory water well within 2,163.7 feet of the Site which has a recorded depth to water of 628 feet was located (**Appendix B: Figure C and Figure D**).

- The USGS Water Resources database provides data for groundwater levels for New Mexico using a mapping program which identifies water wells. A water well is located 2,481.2 feet from the Site, and a depth to water of 600 feet as of October of 1963 (**Appendix B: Figure E**).
- The Site is located within 300 feet of a NM EMNRD OCD – defined continuously flowing watercourse or significant watercourse. An Ephemeral / Intermittent watercourse flows through the Site (**Appendix A: Map 3**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake (**Appendix A: Map 2**).
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Appendix A: Map 8**).
- No Springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Appendix A: Map 2**).
- No freshwater wells or springs were identified within 1,000 feet of the Site (**Appendix A: Map 2**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3 (**Appendix A: Map 2**).
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a Wetland (**Appendix A: Map 9**).
- Based on information identified in the NM Mining and Minerals Divisions Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Appendix A: Map 6**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Appendix A: Map 5**).

Based on available information Dugan estimates the depth to water at the Site to be greater than 100 feet bgs, however, an ephemeral watercourse flows through the spill area resulting in a Tier I ranking. Applicable closure criteria for soil remaining in place at the Site include:



| Tier I Closure Criteria for Soils Impacted by a Release |                                  |           |
|---|----------------------------------|-----------|
| Constituent <sup>1</sup>                                | Method                           | Limit     |
| Chloride  | EPA 300.0 or SM4500 C1 B         | 600 mg/kg |
| TPH (GRO+DRO+MRO) <sup>2</sup>                          | EPA SW-846 Method 8015M          | 100 mg/kg |
| BTEX <sup>3</sup>                                       | EPA SW-846 Method 8021B or 8260B | 50 mg/kg  |
| Benzene   | EPA SW-846 Method 8021B or 8260B | 10 mg/kg  |

<sup>1</sup> - Constituent concentrations are in milligrams per kilogram (mg/kg).

<sup>2</sup> - Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

<sup>3</sup> - Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

## Soil Remediation

On July 3, 2023, Dugan initiated remediation activities to address the petroleum hydrocarbon impact resulting from the produced water spill. The spill affected approximately 17,411 square feet of surface area.

On August 10, 2023, Dugan initiated remediation activities to address the petroleum hydrocarbon impact resulting from the produced water spill. The spill affected approximately 10,874.80 square feet of surface area.

The remediation procedures primarily focused on the systematic removal of flocculated and crusted soil. This involved mechanically agitating and disaggregating the soil using manual raking techniques to break apart the compacted material. The raking was performed methodically to ensure the effective dislodging and removal of the hardened soil structure, restoring the soil's functionality and preparing the site for subsequent processes.

On January 28, 2025, after completing the remediation procedures, Dugan collected 84 soil samples to verify that the Tier I criteria for soils impacted by a release, as outlined in Table 1 of Paragraph (2) of Subsection E of 19.15.29.12 NMAC, were met.

**Appendix A: Map 4** shows the approximate locations of the soil samples and the dimensions of the spill area in relation to the well location. Photographic documentation of the remediation efforts is included in **Appendix C**.

## Soil Sampling

Dugan Production Corp. collected and submitted soil samples on January 28, 2025, to Envirotech for analytical testing. All reported data in the analytical report from Envirotech were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted.

The soil sampling program includes the collection of eighty-four composite soil samples (E501202-01 through E501202-20, E501203-01 through E501203-20, E501204-01 through E501204-20, and E501205-01 through E501205-24) from within the spill perimeter for laboratory analysis. Hand tools were utilized to obtain soil samples from the spill perimeter. Regulatory correspondence is provided in **Appendix D**.

## Sampling

On January 28, 2025, composite soil samples were collected at the Site. The NM OCD and BLM were notified of the collection of samples which no representative was present during collection. Composite samples E501202:01-06,10-20, E501203:01-13,18-20, and E501204:01-09 were collected from the surface within the spill area. E501202:07-09 and E501203:14-17 were collected from the surface outside the spill perimeter. Composite samples E501204:05,09,13,17, and E501205-01 were collected at a depth of six inches within the spill perimeter. Composite samples E501205:05,09, 13,17,19,21,23 were collected at a depth of six inches outside of the spill perimeter. Composite samples E501204:06,10,14,18, and E501205-02 were collected at a depth of twelve inches within the spill perimeter. Composite samples E501205:06,10,14,18,20,22,24 were collected at a depth of twelve inches outside the spill perimeter. Composite samples E501204:07,11,15,19 and E501205-03 were collected at a depth of eighteen inches within the spill perimeter. Composite samples E501205:07,11,15 were collected at a depth of eighteen inches outside the spill perimeter. Composite samples E501204:08,12,16,20 and E501205-04 were collected at a depth of twenty-four inches within the spill perimeter. Composite samples E501205:08,12,16 were collected at a depth of twenty-four inches outside the spill perimeter.

All soil samples were collected and placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals were stored in ice in a cooler. The samples were relinquished to the custody of Envirotech in Farmington, NM, under proper chain-of-custody procedures.

## Soil Laboratory Analytical Methods

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021; TPH GRO/DRO/MRO using EPA SW-846 Method 8015; and chlorides using EPA Method 300.0.

The laboratory analytical results for the composite soil samples are summarized in **Appendix E: Table 1**. The laboratory data sheets and executed chain-of-custody forms for the samples are provided in **Appendix E**.

## Soil Data Evaluation

Dugan compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil

samples (E501202-01 through E501202-20, E501203-01 through E501203-20, E501204-01 through E501204-20, and E501205-01 through E501205-24) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **(Appendix E: Table 1)**.

- The laboratory analytical results for the composite soil samples indicate benzene was not detected. The laboratory analytical results for all composite soil samples indicate total Benzene is not present at concentrations greater than NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for the composite soil samples indicate BTEX was not detected. The laboratory analytical results for all composite soil samples indicate total BTEX is not present at concentrations greater than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples E501204-03 and E501204-04 indicate combined TPH GRO/DRO/MRO present at concentrations of 35.4 mg/kg and 31.5 mg/kg, respectfully, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for all initial composite soil samples indicate chloride was not detected. The laboratory analytical results for all composite soil samples indicate chloride is not present at concentrations greater than the NM EMNRD OCD closure criteria of 600 mg/kg.

The reclamation requirements outlined in 19.15.29.13(D)(1) NMAC specify that chloride concentrations must be below 600 mg/kg, and soils must show total petroleum hydrocarbons (TPH) less than 100 mg/kg, total BTEX (benzene, toluene, ethylbenzene, and xylenes) less than 50 mg/kg, and benzene less than 10 mg/kg. The highest concentration of TPH detected in the soil was 35.4 mg/kg, which is well below the threshold of 100 mg/kg required for reclamation under 19.15.29.13(D)(1) NMAC. Additionally, no chloride, BTEX, or benzene organics were detected, with all measurements showing 0 mg/kg. For detailed sampling results, please refer to **Appendix E: Table 1**.

## Reclamation

Reclamation was not required, as the impacted surface area did not need restoration. The disturbed area is composed of at least four feet of non-waste, uncontaminated earthen material, with contaminant concentrations below the reclamation limits set forth in 19.15.29.13(D)(1) NMAC. The topsoil is now suitable for vegetation establishment. Photographic documentation of the remediation is provided in **Appendix C**.

## Findings and Recommendation

Based on the remediation efforts and the results of the soil sampling performed on January 28, 2025, Dugan Production Corp. has successfully remediated the site impacted by the produced water spill at the Sanchez O'Brien SWD # 001. The results from the 84 composite soil samples indicate that all contaminants, including benzene, BTEX, TPH (GRO/DRO/MRO), and chloride, were below the applicable New Mexico Oil Conservation Division (NM OCD) closure criteria, confirming that the soil at the site is within acceptable contamination limits.

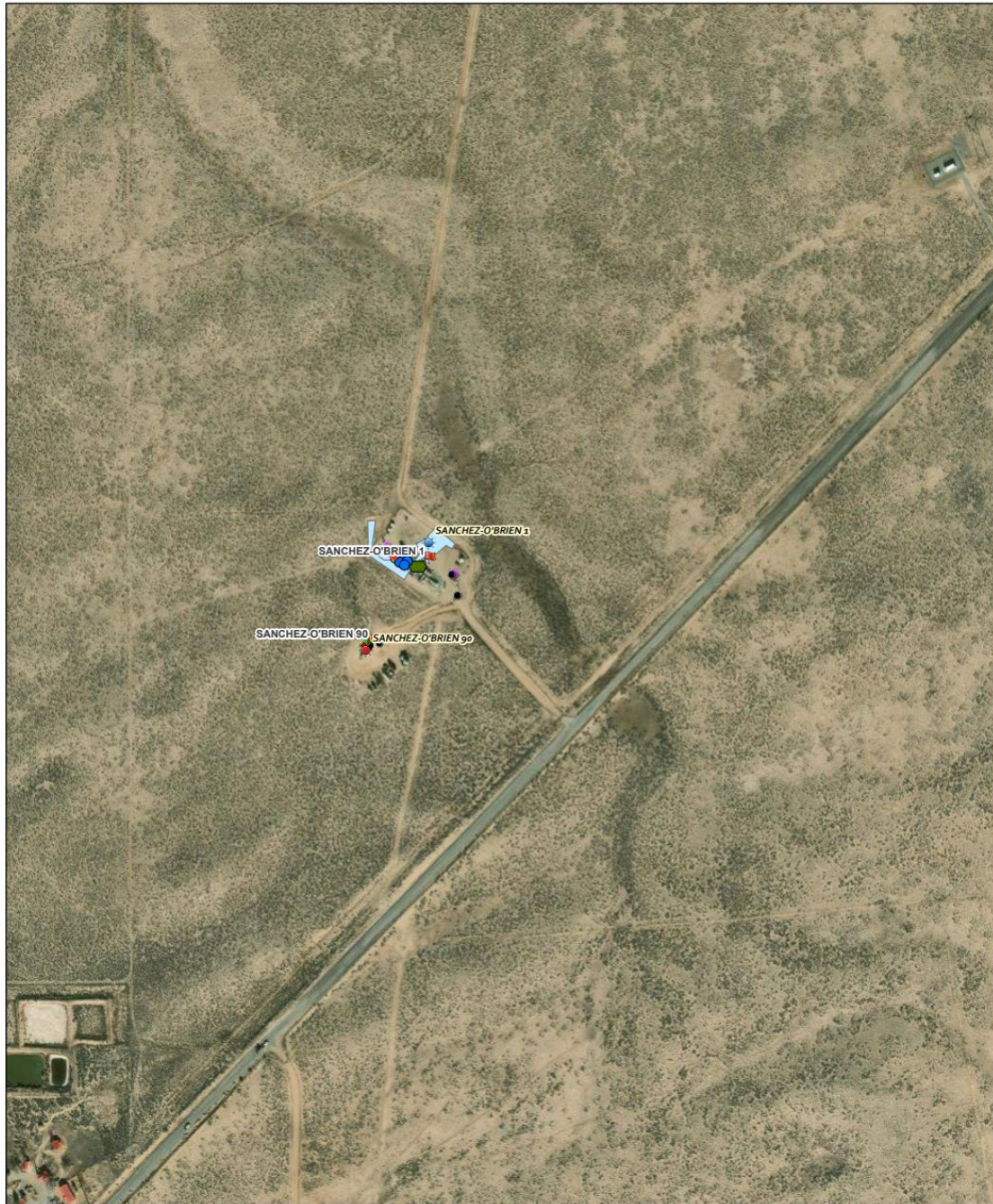
There was no need for further reclamation of the impacted area as the contaminated surface was effectively restored, and soil conditions meet the regulatory requirements for non-waste, uncontaminated earthen material. The topsoil cover is deemed suitable for vegetation establishment, and the site has been returned to a condition that poses no risk to the environment or public health.



## Appendix A: Maps and Site Diagrams

## Map 1: Scaled Site Diagram

Sanchez O'Brien SWD # 001 Site Map



1/17/2025, 1:30:19 PM

- |                     |                        |                                    |
|---------------------|------------------------|------------------------------------|
| SITES               | SEPARATORS             | Land Grant Quarter Quarter Section |
| WELLS               | TANKS                  | Land Grant Section                 |
| GAS                 | OIL TANKS              | PLSS Quarter Quarter Section       |
| SALT WATER DISPOSAL | INJECTION PUMP ENGINES | PLSS Section                       |
| ALLOCATION_METERS   | PUMPJACK               | PLSS Township                      |
| PJ ENGINES          | SPILLS/LEAKS           | Meridian & Baseline                |
| PITS                | Land Grant             |                                    |

1:4,514

0 0.04 0.08 0.16 mi

0 0.05 0.1 0.2 km

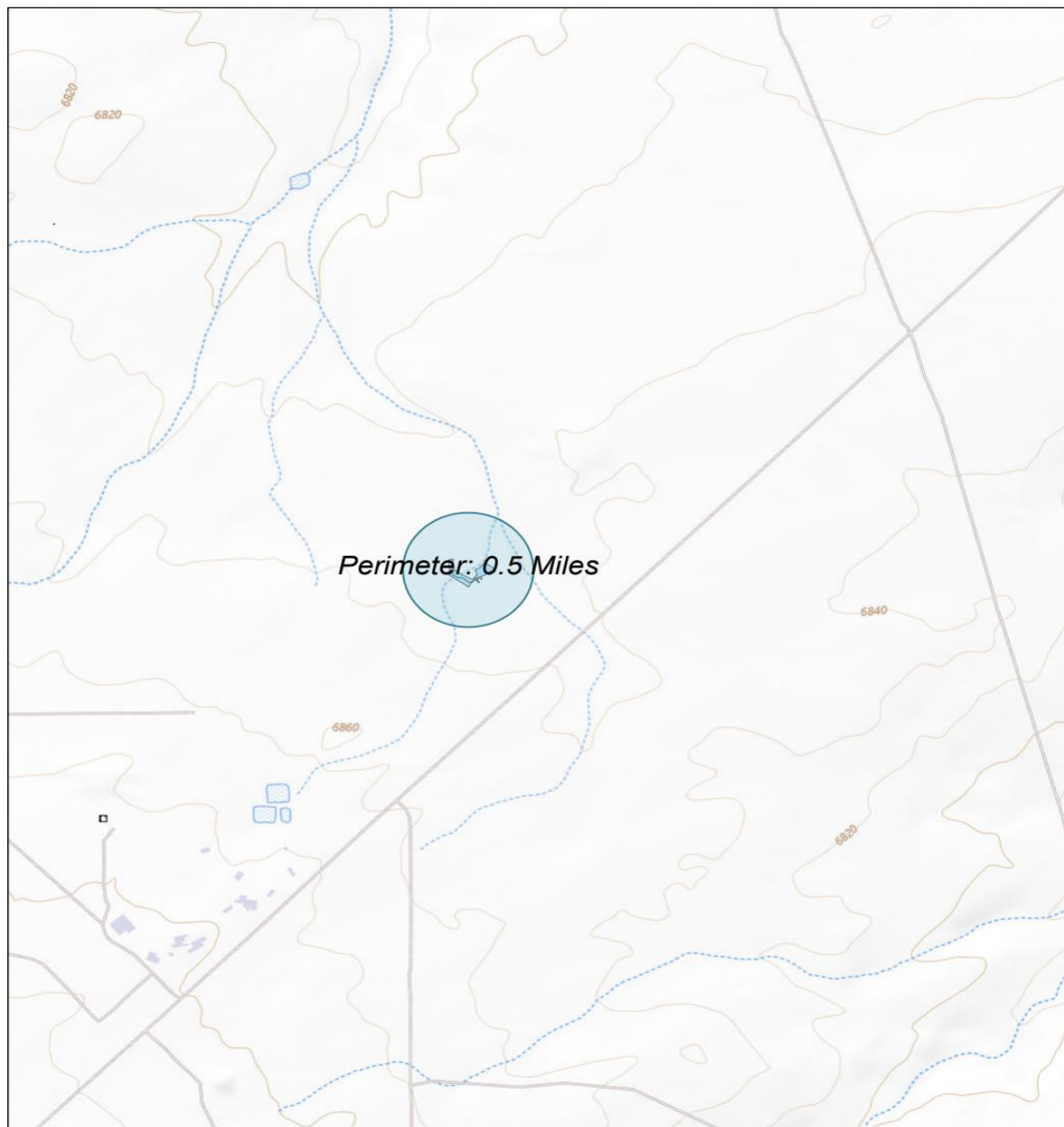
CADNDSI, RGIS, Maxar

Dugan Production Corp

## Appendix A: Maps and Site Diagrams

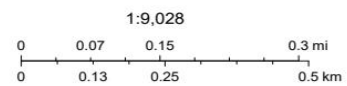
### Map 2: Water Course Proximity Map

Sanchez O'Brien # 001 Spill Buffer Map



1/20/2025, 7:37:21 AM

- Override 1
- SPILLS\LEAKS



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S.

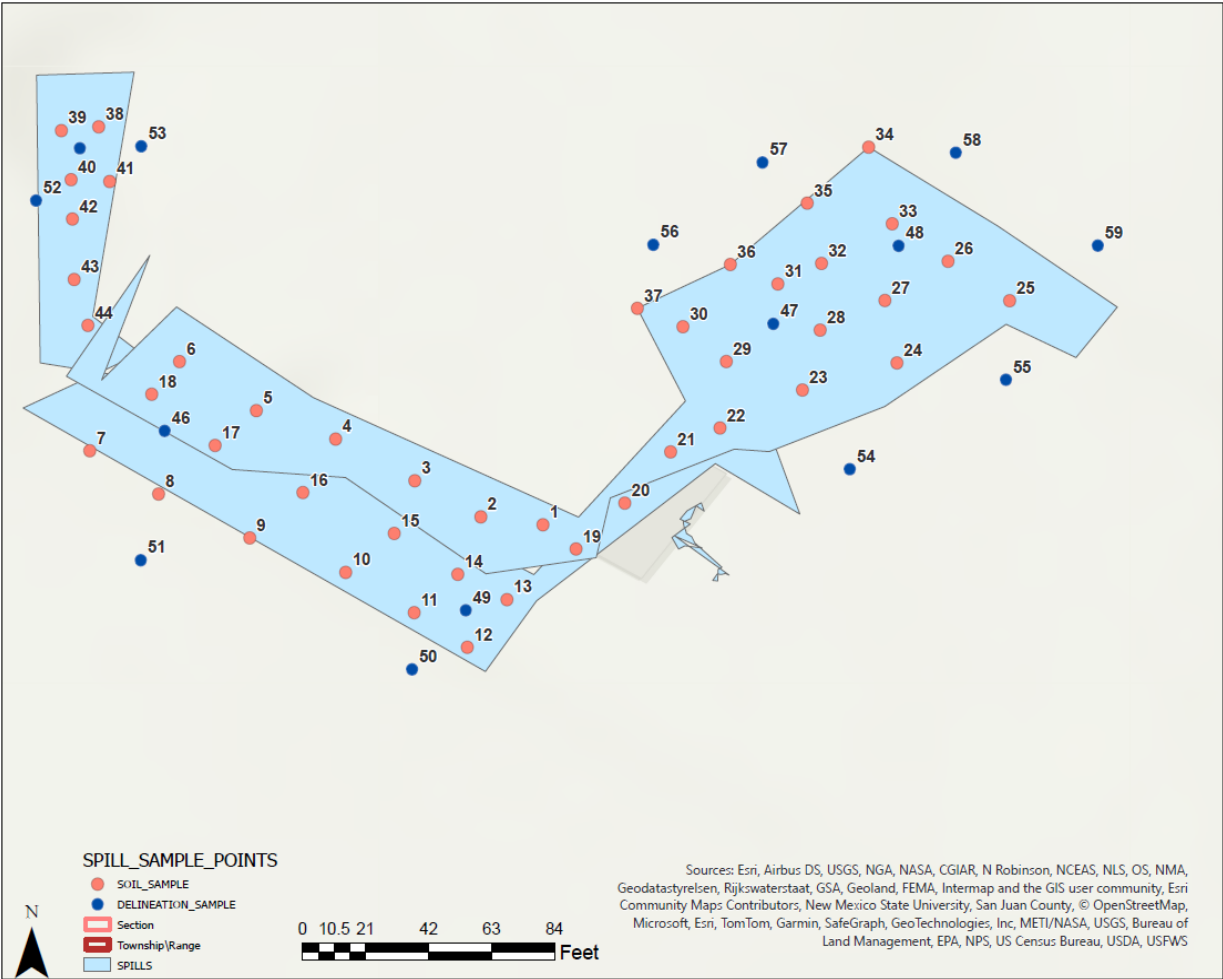
Dugan Production Corp





Appendix A: Maps and Site Diagrams

Map 4: Sampling Diagram





Appendix A: Maps and Site Diagrams

Map 5: Flood Plain Map

National Flood Hazard Layer FIRMMette



**Legend**

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE) Zone A, V, AE
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes, Zone X
- Area with Flood Risk due to Levee Zone D

**OTHER AREAS**

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

**GENERAL STRUCTURES**

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

**CROSS SECTIONS**

- Cross Sections with 1% Annual Chance
- Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

**OTHER FEATURES**

- Digital Data Available
- No Digital Data Available
- Unmapped

**MAP PANELS**

- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

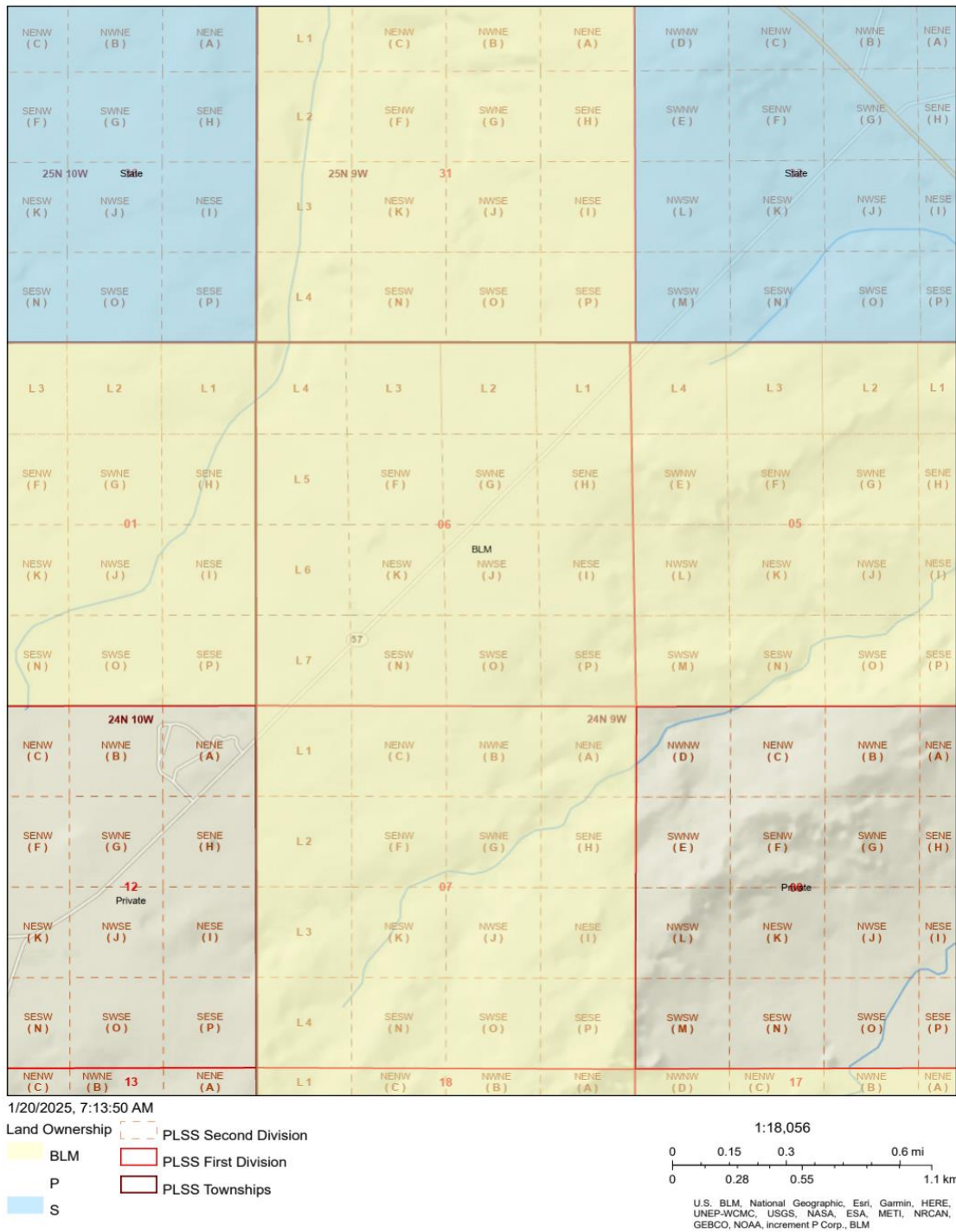
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/15/2024 at 4:25 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

## Appendix A: Maps and Site Diagrams

## Map 6: Underground Mine Map

## Sanchez O'Brien # 001 Active Mines in New Mexico




EMNRD MMD GIS Coordinator  
 NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)

### Map 7: Topo Map

[illegible]

|   |                     |   |                        |
|---|---------------------|---|------------------------|
|  | SITES               |  | PITS                   |
|  | WELLS               |  | SEPARATORS             |
|  | GAS                 |  | TANKS                  |
|  | OIL                 |  | OIL TANKS              |
|  | SALT WATER DISPOSAL |  | COMPRESSORS            |
|  | ALLOCATION_METERS   |  | WELLHEAD COMPRESSOR    |
|  | PNEUMATICS          |  | PIPELINE COMPRESSOR    |
|  | PJ ENGINES          |  | INJECTION PUMP ENGINES |

 PUMPJACK  
 METERS/CDP  
 PIPELINES  
 GAS  
 WATER  
 ROADS  
 SPILLS/LEAKS  
 RIVERS, STREAMS,  
 0 - 5,000

Ephemeral/Intermittent  
 LAKES, PONDS, WETLANDS  
 Lakes, Ponds, Reservoirs, and Estuaries  
 Land Grant  
 Land Grant Quarter Quarter Section  
 Land Grant Section  
 PLSS Quarter Quarter Section  
 PLSS Section  
 PLSS Township  
 Meridian & Baseline

1:18,056

0 0.15 0.3 0.6 mi

0 0.28 0.55 1.1 km

CADNSDI, RGIS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset: USGS Global

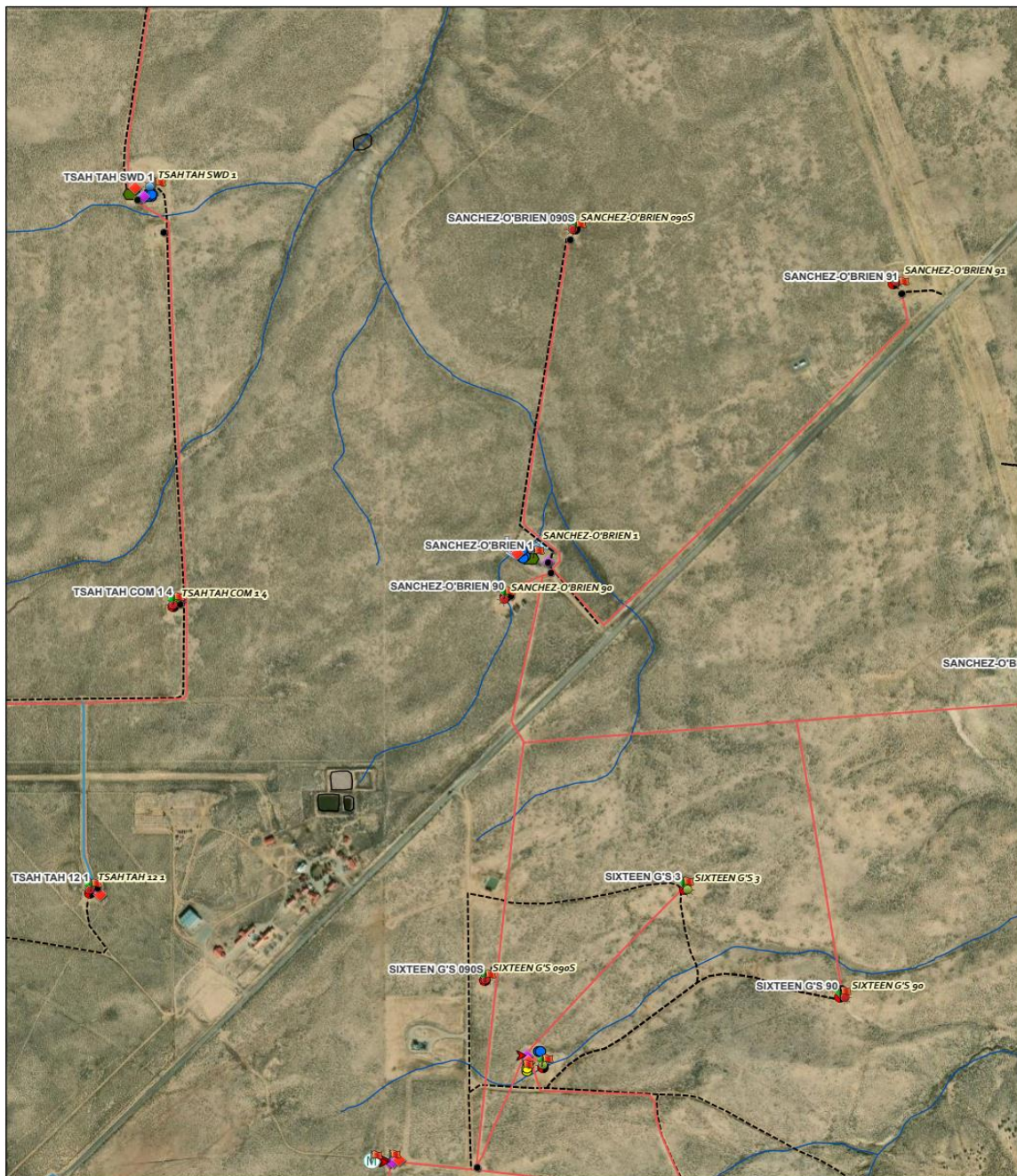
Dugan Production Corp



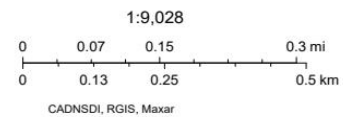
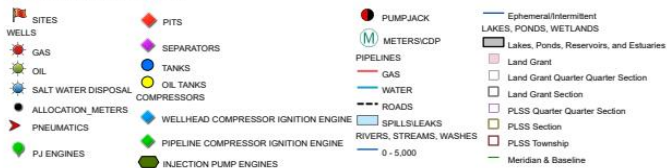
## Appendix A: Maps and Site Diagrams

## Map 8: Aerial View

## Sanchez O'Brien SWD # 001 Aerial View



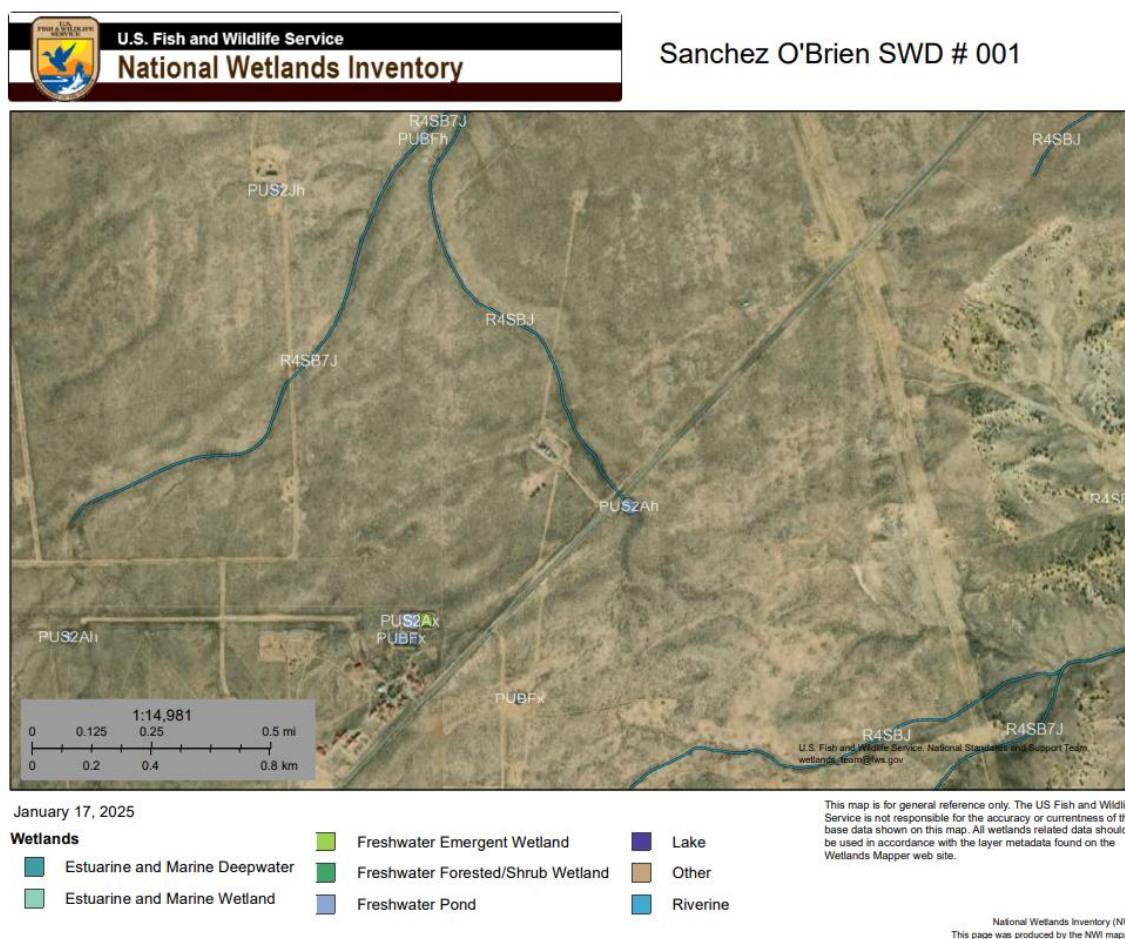
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Dugan Production Corp

## Appendix A: Maps and Site Diagrams

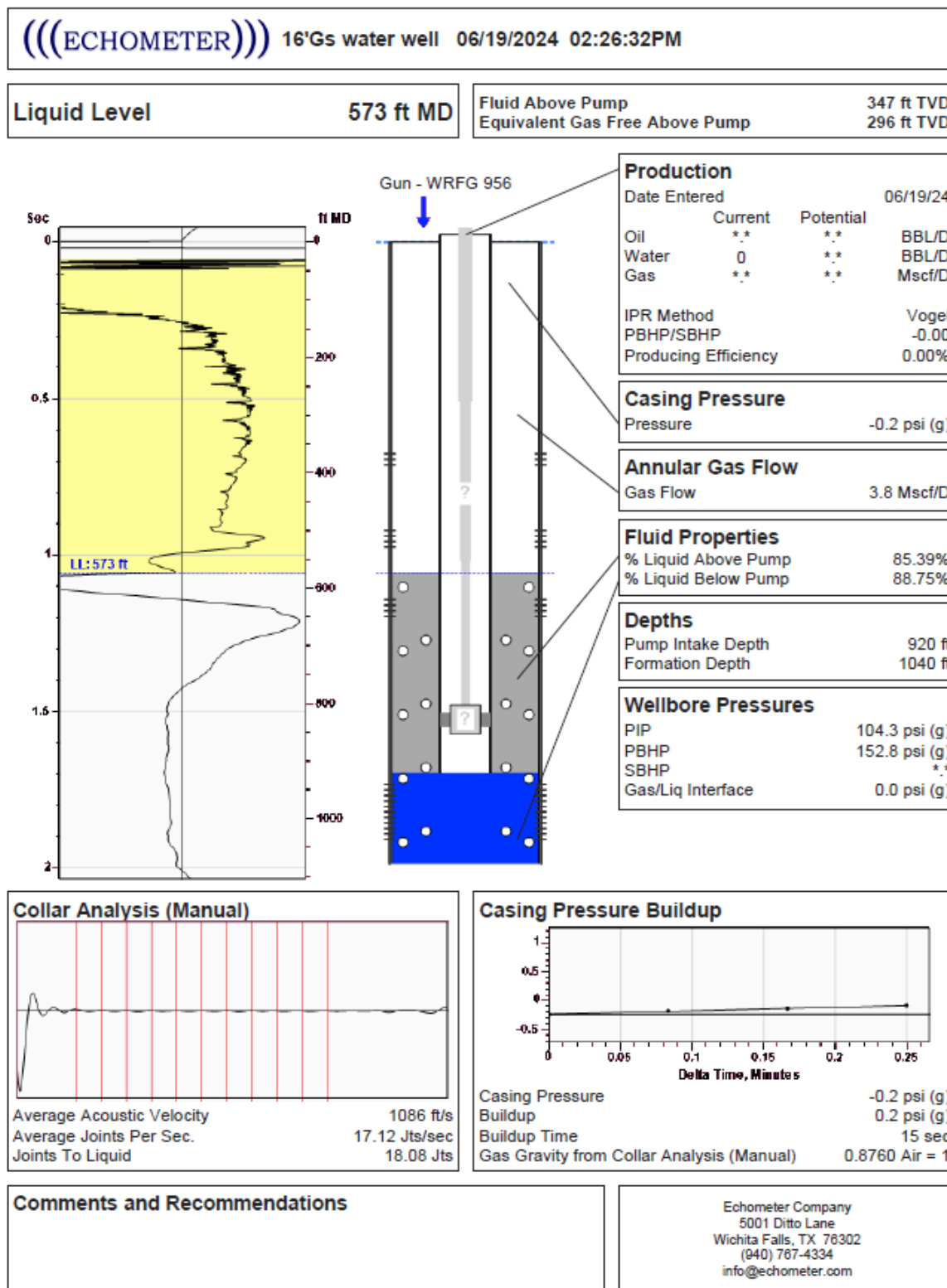
### Map 9: Wetlands Map





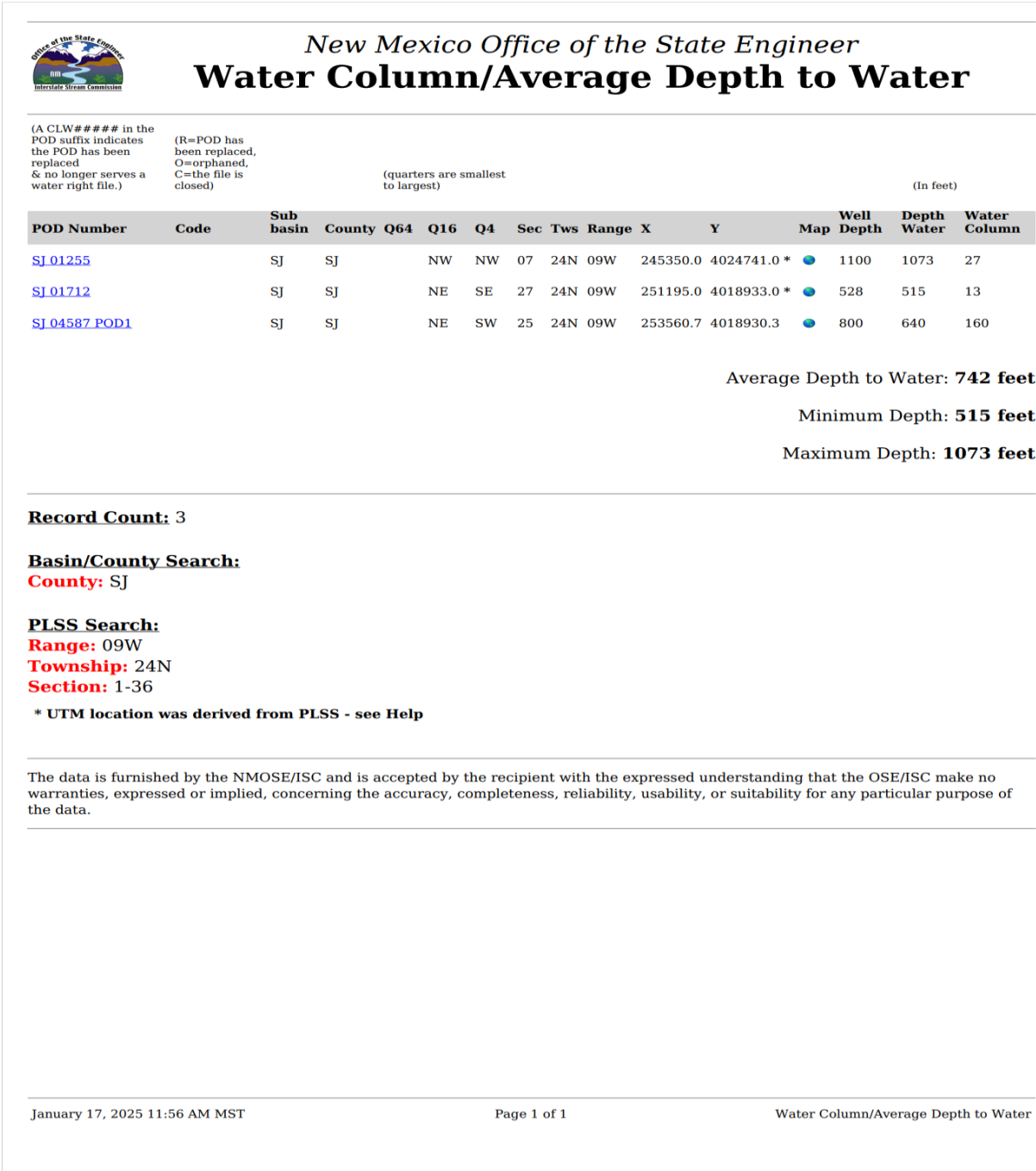
## Appendix B: Tables and Figures

Figure A: Dugan Depth to Water Report



Appendix B: Tables and Figures

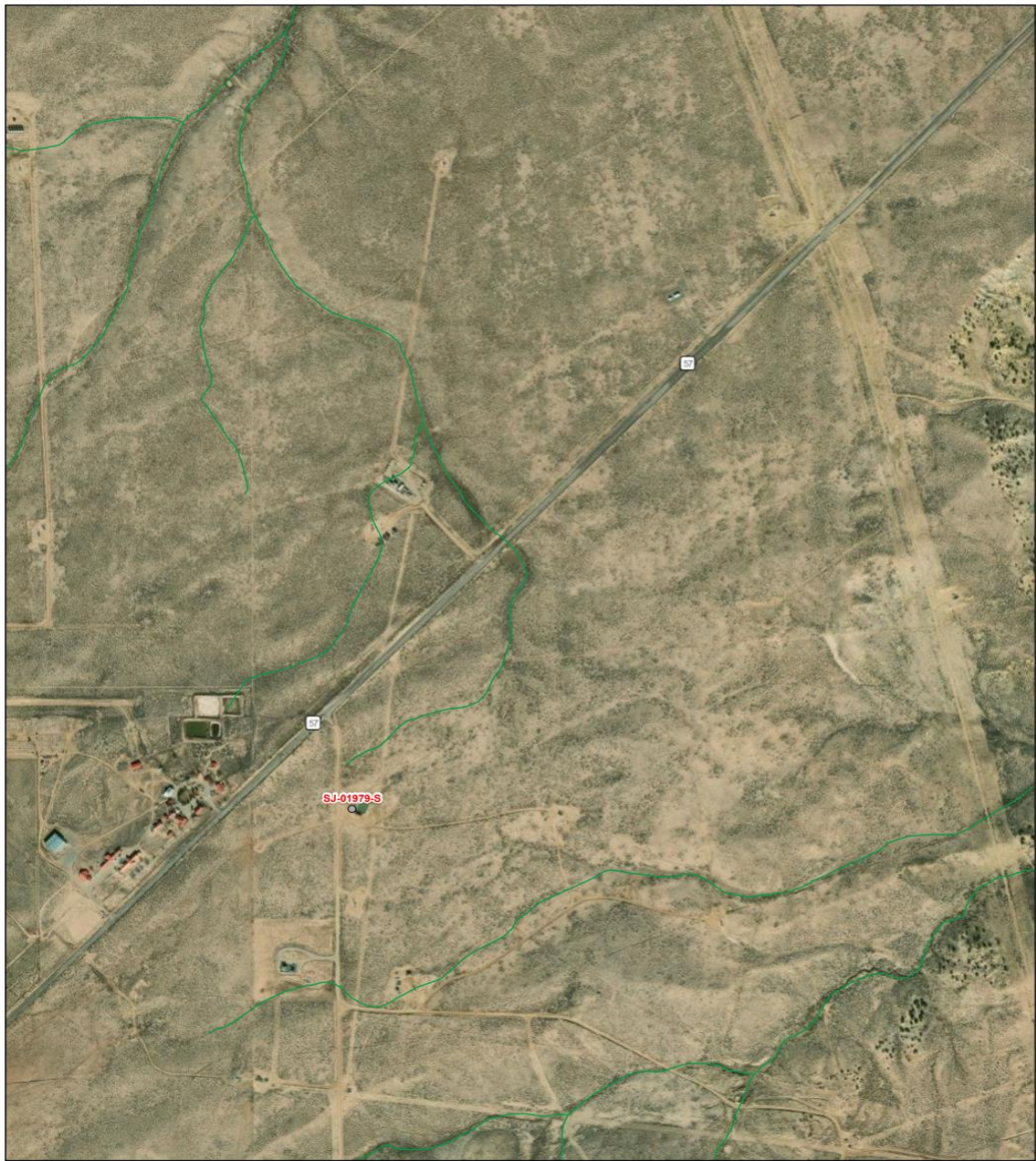
Figure B: iWaters Data



Appendix B: Tables and Figures

Figure C: OSE POD Locations Map

Sanchez O'Brien - OSE POD Location Map



1/17/2025, 12:44:10 PM

GIS WATERS PODs

● Active

●

OSE District Boundary

Water Right Regulations

Artesian Planning Area

NHD Flowlines

Artificial Path

Stream River

1:9,028

0 0.07 0.15 0.3 mi  
0 0.13 0.25 0.5 km

Esri, HERE, IPC, Esri, HERE, Garmin, IPC, Maxar

Online web user  
This is an unofficial map from the OSE's online application.



Appendix B: Tables and Figures

Figure D: POD Summary for Nearest Water Well

| Point of Diversion Summary   |         |                               |     |                  |                     |      |     |          |           |     |
|--|---------|-------------------------------|-----|------------------|---------------------|------|-----|----------|-----------|-----|
| quarters are 1=NE 2=SE 3=SW 4=NE<br>quarters are smallest to largest |         |                               |     |                  | NAD83 UTM in meters |      |     |          |           |     |
| Well Tag   | POD Nbr | Q64                           | Q16 | Q4               | Sec                 | Trws | Rng | X        | Y         | Map |
| SJ 01979   |         | SW                            | NE  | 32               | 25N                 | 09W  |     | 247838.5 | 4027524.9 |     |
| * UTM location was derived from PLSS - see Help                      |         |                               |     |                  |                     |      |     |          |           |     |
| Driller License: Driller Company:                                    |         |                               |     |                  |                     |      |     |          |           |     |
| Driller Name: SALAZAR DRILLING COMPANY                               |         |                               |     |                  |                     |      |     |          |           |     |
| Drill Start Date: 1986-02-08   |         | Drill Finish Date: 1986-02-15 |     | Plug Date:       |                     |      |     |          |           |     |
| Log File Date: 1986-03-18  |         | PCW Rcv Date: 1986-03-18      |     | Source: Shallow  |                     |      |     |          |           |     |
| Pump Type: SUBMER  |         | Pipe Discharge Size: 3.5      |     | Estimated Yield: |                     |      |     |          |           |     |
| Casing Size: 10.75   |         | Depth Well: 1180              |     | Depth Water: 628 |                     |      |     |          |           |     |

Figure E: USGS Data

USGS 362004107502501 24N.10W.12.2223

San Juan County, New Mexico  
Latitude 36°20'04", Longitude 107°50'25" NAD27  
Land-surface elevation 6,878 feet above NGVD29  
This well is completed in the Colorado Plateaus aquifers (N300COPLTS) national aquifer.  
This well is completed in the Ojo Alamo Sandstone (211OJAM) local aquifer.

| Date       | Time | Water-level date-time accuracy | Parameter code | Water level, feet below land surface |
|------------|------|--------------------------------|----------------|--------------------------------------|
|            |      |                                |                |                                      |
| 1963-10-31 |      | D                              | 62610          |                                      |
| 1963-10-31 |      | D                              | 62611          |                                      |
| 1963-10-31 |      | D                              | 72019          | 600.00                               |

## Appendix C: Site Photos

Photo 1: Site Photo





## Appendix C: Site Photos

### Photo 2 : Site Photo





Appendix C: Site Photos

Photo 3 : Site Photo





Appendix C: Site Photos

Photo 4: Site Photo





## Appendix C: Site Photos

Photo 5: Site Photo





Appendix C: Site Photos

Photo 6: Site Photo





## Appendix C: Site Photos

Photo 7: Site Photo





## Appendix C: Site Photos

Photo 8: Site Photo





## Appendix C: Site Photos

Photo 9: Site Photo





## Appendix C: Site Photos

Photo 10: Site Photo





## Appendix C: Site Photos

Photo 11: Site Photo



Appendix D: Notifications

Figure 1: NM OCD Soil Sample Notification

Questions

Prerequisites

|                  |  |
|------------------|--|
| Incident ID (n#) | nAPP2318737964                                   |
| Incident Name    | NAPP2318737964 SANCHEZ O'BRIEN #1 @ 30-045-25298 |
| Incident Type    | Produced Water Release                           |
| Incident Status  | Initial C-141 Approved                           |
| Incident Well    | [30-045-25298] SANCHEZ-O'BRIEN #001              |

Location of Release Source

|                         |                    |
|-------------------------|--------------------|
| Site Name               | SANCHEZ O'BRIEN #1 |
| Date Release Discovered | 07/03/2023         |
| Surface Owner           | Federal            |

Sampling Event General Information

Please answer all the questions in this group.

|   |            |
|---|------------|
| What is the sampling surface area in square feet  | 17,326     |
| What is the estimated number of samples that will be gathered                                   | 84         |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/28/2025 |
| Time sampling will commence   | 10:00 AM   |

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Contact Kevin Smaka @ 486-6207 for information needed to contact samplers.

Please provide any information necessary for navigation to sampling site

Lat. 36.3403587, Long. -107.8359222

Figure 2: BLM Soil Sample Notification

From:

Sent:

To:

Cc:

Subject:

Kevin Smaka

Friday, January 24, 2025 10:49 AM

aadeloye@blm.gov

Tyra Feil; Eileen Medrano

Notice of Sampling Sanchez O'Brien SWD

Dugan will be collecting soil samples this coming Tuesday, 1-28-2025 @ 10:00 AM at the Sanchez O'Brien SWD related to closure of a spill at the site.

Here is the site information:

30-045-25298 SANCHEZ-O'BRIEN #001 [22181]

General Well Information

|                   |                                      |
|-------------------|--------------------------------------|
| Operator:         | [6515] DUGAN PRODUCTION CORP         |
| Status:           | Active                               |
| Well Type:        | Salt Water Disposal                  |
| Work Type:        | Re-entry                             |
| Surface Location: | L-06-24N-09W Lot: 6 1650 FSL 990 FWL |
| Lat/Long:         | 36.3403587,-107.8359222 NAD83        |
| GL Elevation:     | 6828                                 |
| KB Elevation:     |                                      |
| DF Elevation:     |                                      |

Please contact me should you have questions.

Kevin Smaka P.E.  
Regulatory Engineer  
Dugan Production Corp  
505-486-6207



## Appendix E: Soil Analysis

Table 1: Soil Sample Result Summary

| Sanchez O'Brien #001 |           |                          |                       |                 |                 |                    |
|----------------------|-----------|--------------------------|-----------------------|-----------------|-----------------|--------------------|
| Lab Results Table    |           |                          | Results               |                 |                 |                    |
| Sample #             | Map 4: ID | Depth Sampled (feet BGS) | Chlorides (600 mg/kg) | TPH (100 mg/kg) | BTEX (50 mg/kg) | Benzene (10 mg/kg) |
| 01                   | 1         | 0                        | ND                    | ND              | ND              | ND                 |
| 02                   | 2         | 0                        | ND                    | ND              | ND              | ND                 |
| 03                   | 3         | 0                        | ND                    | ND              | ND              | ND                 |
| 04                   | 4         | 0                        | ND                    | ND              | ND              | ND                 |
| 05                   | 5         | 0                        | ND                    | ND              | ND              | ND                 |
| 06                   | 6         | 0                        | ND                    | ND              | ND              | ND                 |
| 07                   | 7         | 0                        | ND                    | ND              | ND              | ND                 |
| 08                   | 8         | 0                        | ND                    | ND              | ND              | ND                 |
| 09                   | 9         | 0                        | ND                    | ND              | ND              | ND                 |
| 10                   | 10        | 0                        | ND                    | ND              | ND              | ND                 |
| 11                   | 11        | 0                        | ND                    | ND              | ND              | ND                 |
| 12                   | 12        | 0                        | ND                    | ND              | ND              | ND                 |
| 13                   | 13        | 0                        | ND                    | ND              | ND              | ND                 |
| 14                   | 14        | 0                        | ND                    | ND              | ND              | ND                 |
| 15                   | 15        | 0                        | ND                    | ND              | ND              | ND                 |
| 16                   | 16        | 0                        | ND                    | ND              | ND              | ND                 |
| 17                   | 17        | 0                        | ND                    | ND              | ND              | ND                 |
| 18                   | 18        | 0                        | ND                    | ND              | ND              | ND                 |
| 19                   | 19        | 0                        | ND                    | ND              | ND              | ND                 |
| 20                   | 20        | 0                        | ND                    | ND              | ND              | ND                 |
| 21                   | 21        | 0                        | ND                    | ND              | ND              | ND                 |
| 22                   | 22        | 0                        | ND                    | ND              | ND              | ND                 |
| 23                   | 23        | 0                        | ND                    | ND              | ND              | ND                 |
| 24                   | 24        | 0                        | ND                    | ND              | ND              | ND                 |
| 25                   | 25        | 0                        | ND                    | ND              | ND              | ND                 |
| 26                   | 26        | 0                        | ND                    | ND              | ND              | ND                 |
| 27                   | 27        | 0                        | ND                    | ND              | ND              | ND                 |
| 28                   | 28        | 0                        | ND                    | ND              | ND              | ND                 |
| 29                   | 29        | 0                        | ND                    | ND              | ND              | ND                 |
| 30                   | 30        | 0                        | ND                    | ND              | ND              | ND                 |
| 31                   | 31        | 0                        | ND                    | ND              | ND              | ND                 |
| 32                   | 32        | 0                        | ND                    | ND              | ND              | ND                 |
| 33                   | 33        | 0                        | ND                    | ND              | ND              | ND                 |
| 34                   | 34        | 0                        | ND                    | ND              | ND              | ND                 |
| 35                   | 35        | 0                        | ND                    | ND              | ND              | ND                 |
| 36                   | 36        | 0                        | ND                    | ND              | ND              | ND                 |
| 37                   | 37        | 0                        | ND                    | ND              | ND              | ND                 |
| 38                   | 38        | 0                        | ND                    | ND              | ND              | ND                 |
| 39                   | 39        | 0                        | ND                    | ND              | ND              | ND                 |
| 40                   | 40        | 0                        | ND                    | ND              | ND              | ND                 |
| 41                   | 41        | 0                        | ND                    | ND              | ND              | ND                 |
| 42                   | 42        | 0                        | ND                    | ND              | ND              | ND                 |
| 43                   | 43        | 0                        | ND                    | 35.4            | ND              | ND                 |

**Appendix E: Soil Analysis**

|        |   |     |    |      |    |    |
|--------|---|-----|----|------|----|----|
| 44     | 44  | 0   | ND | 31.5 | ND | ND |
| 45     | 45  | 6"  | ND | ND   | ND | ND |
| 46     | 45  | 12" | ND | ND   | ND | ND |
| 47     | 45  | 18" | ND | ND   | ND | ND |
| 48     | 45  | 24" | ND | ND   | ND | ND |
| 49     | 46  | 6"  | ND | ND   | ND | ND |
| 50     | 46  | 12" | ND | ND   | ND | ND |
| 51     | 46  | 18" | ND | ND   | ND | ND |
| 52     | 46  | 24" | ND | ND   | ND | ND |
| 53     | 47  | 6"  | ND | ND   | ND | ND |
| 54     | 47  | 12" | ND | ND   | ND | ND |
| 55     | 47  | 18" | ND | ND   | ND | ND |
| 56     | 47  | 24" | ND | ND   | ND | ND |
| 57     | 48  | 6"  | ND | ND   | ND | ND |
| 58     | 48  | 12" | ND | ND   | ND | ND |
| 59     | 48  | 18" | ND | ND   | ND | ND |
| 60     | 48  | 24" | ND | ND   | ND | ND |
| 61     | 49  | 6"  | ND | ND   | ND | ND |
| 62     | 49  | 12" | ND | ND   | ND | ND |
| 63     | 49  | 18" | ND | ND   | ND | ND |
| 64     | 49  | 24" | ND | ND   | ND | ND |
| 65     | 50  | 6"  | ND | ND   | ND | ND |
| 66     | 50  | 12" | ND | ND   | ND | ND |
| 67     | 51  | 18" | ND | ND   | ND | ND |
| 68     | 51  | 24" | ND | ND   | ND | ND |
| 69     | 52  | 6"  | ND | ND   | ND | ND |
| 70     | 52  | 12" | ND | ND   | ND | ND |
| 71     | 53  | 18" | ND | ND   | ND | ND |
| 72     | 53  | 24" | ND | ND   | ND | ND |
| 73     | 54  | 6"  | ND | ND   | ND | ND |
| 74     | 54  | 12" | ND | ND   | ND | ND |
| 75     | 55  | 18" | ND | ND   | ND | ND |
| 76     | 55  | 24" | ND | ND   | ND | ND |
| 77     | 56  | 6"  | ND | ND   | ND | ND |
| 78     | 56  | 12" | ND | ND   | ND | ND |
| 79     | 57  | 6"  | ND | ND   | ND | ND |
| 80     | 57  | 12" | ND | ND   | ND | ND |
| 81     | 58  | 6"  | ND | ND   | ND | ND |
| 82     | 58  | 12" | ND | ND   | ND | ND |
| 83     | 59  | 6"  | ND | ND   | ND | ND |
| 84     | 59  | 12" | ND | ND   | ND | ND |
| Notes: |   |     |    |      |    |    |
|        | 1. BGS means below grade surface                        |     |    |      |    |    |
|        | 2. TPH means total petroleum hydrocarbons               |     |    |      |    |    |
|        | 3. BTEX means Benzene, Toluene, Ethylbenzene and Xylene |     |    |      |    |    |
|        | 4. ND means not detected                                |     |    |      |    |    |

## Appendix E: Soil Analysis

Figure A: Envirotech Analytical Report for Soil Samples E501202-01: E501202-20 (1-20)



# envirotech

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## Analytical Report

Dugan Production Corp.

Project Name: Sanchez O'Brien

Work Order: E501202

Job Number: 06094-0177

Received: 1/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/3/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



## Appendix E: Soil Analysis

Date Reported: 2/3/25

Kevin Smaka  
PO Box 420  
Farmington, NM 87499



Project Name: Sanchez O'Brien  
Workorder: E501202  
Date Received: 1/28/2025 1:05:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/28/2025 1:05:00PM, under the Project Name: Sanchez O'Brien.

The analytical test results summarized in this report with the Project Name: Sanchez O'Brien apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

Raina Schwanz  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

### Field Offices:

#### Southern New Mexico Area

Lynn Jarboe  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

Michelle Gonzales  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Appendix E: Soil Analysis

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Appendix E: Soil Analysis

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## Appendix E: Soil Analysis

## Sample Summary

|  |   |                             |
|--|---|-----------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>02/03/25 12:25 |
|--|---|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| 1                | E501202-01A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 2                | E501202-02A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 3                | E501202-03A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 4                | E501202-04A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 5                | E501202-05A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 6                | E501202-06A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 7                | E501202-07A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 8                | E501202-08A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 9                | E501202-09A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 10               | E501202-10A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 11               | E501202-11A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 12               | E501202-12A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 13               | E501202-13A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 14               | E501202-14A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 15               | E501202-15A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 16               | E501202-16A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 17               | E501202-17A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 18               | E501202-18A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 19               | E501202-19A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 20               | E501202-20A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                     |
|------------------------|------------------|-----------------|---------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                     |
| PO Box 420             | Project Number:  | 06094-0177      | Reported:           |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/3/2025 12:25:30PM |

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E501202-01

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 98.0 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 99.0 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 102 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 98.0 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 99.0 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 102 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 112 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

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E501202-02

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 98.1 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 103 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 98.1 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 103 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 114 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

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E501202-03

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 98.1 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 98.1 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 107 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

4

E501202-04

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 99.2 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 99.2 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 108 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

5

E501202-05

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 95.9 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 98.0 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 104 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 95.9 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 98.0 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 104 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 107 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

6

E501202-06

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         |        | 94.9 %          | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 101 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 |        | 104 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         |        | 94.9 %          | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 101 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 |        | 104 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   |        | 105 %           | 50-200      | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

7

E501202-07

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.6 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 105 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 102 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.6 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 105 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 102 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 108 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

8

E501202-08

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         |        | 98.7 %          | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 101 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 |        | 101 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         |        | 98.7 %          | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 101 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 |        | 101 %           | 70-130      | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   |        | 113 %           | 50-200      | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

9

## E501202-09

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 95.9 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 105 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 95.9 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 105 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 112 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

10

E501202-10

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.3 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 99.3 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.3 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 99.3 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 108 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

11

E501202-11

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.8 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 100 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.8 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 100 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 107 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

12

E501202-12

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.3 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 100 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.3 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 100 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 107 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

13

E501202-13

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.5 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.5 % | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 105 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

14

E501202-14

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 95.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 98.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 104 %           | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 95.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 98.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 104 %           | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 111 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

15

E501202-15

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 98.7 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2505067 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 96.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 98.7 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 103 %           | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505065 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 107 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: DT |          | Batch: 2505075 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

16

E501202-16

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 99.2 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 97.1 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 103 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 99.2 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 97.1 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 103 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 110 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

17

E501202-17

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.2 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 96.0 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 106 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.2 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 96.0 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 106 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 111 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

18

E501202-18

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatil Organic Compounds by EPA 8260B</b>         |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 112 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

19

## E501202-19

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         |        | 96.6 %          | 70-130      | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 101 %           | 70-130      | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 |        | 106 %           | 70-130      | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         |        | 96.6 %          | 70-130      | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 101 %           | 70-130      | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 |        | 106 %           | 70-130      | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   |        | 109 %           | 50-200      | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |





## Appendix E: Soil Analysis

## Sample Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

20

E501202-20

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 96.9 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2505067 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 96.9 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 101 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 104 %  | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505065 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 116 %  | 50-200          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: DT |          | Batch: 2505075 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                  |
|--|---|----------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/3/2025 12:25:30PM |
|--|---|----------------------------------|

## Volatile Organic Compounds by EPA 8260B

Analyst: BA

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505067-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |        |       |  |      |        |  |  |  |
|------------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene                            | ND    | 0.0250 |       |  |      |        |  |  |  |
| Ethylbenzene                       | ND    | 0.0250 |       |  |      |        |  |  |  |
| Toluene                            | ND    | 0.0250 |       |  |      |        |  |  |  |
| o-Xylene                           | ND    | 0.0250 |       |  |      |        |  |  |  |
| p,m-Xylene                         | ND    | 0.0500 |       |  |      |        |  |  |  |
| Total Xylenes                      | ND    | 0.0250 |       |  |      |        |  |  |  |
| S surrogate: Bromofluorobenzene    | 0.487 |        | 0.500 |  | 97.3 | 70-130 |  |  |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.509 |        | 0.500 |  | 102  | 70-130 |  |  |  |
| S surrogate: Toluene-d8            | 0.513 |        | 0.500 |  | 103  | 70-130 |  |  |  |

## LCS (2505067-BS1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |        |       |  |      |        |  |  |  |
|------------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene                            | 2.36  | 0.0250 | 2.50  |  | 94.2 | 70-130 |  |  |  |
| Ethylbenzene                       | 2.41  | 0.0250 | 2.50  |  | 96.5 | 70-130 |  |  |  |
| Toluene                            | 2.41  | 0.0250 | 2.50  |  | 96.3 | 70-130 |  |  |  |
| o-Xylene                           | 2.48  | 0.0250 | 2.50  |  | 99.3 | 70-130 |  |  |  |
| p,m-Xylene                         | 4.94  | 0.0500 | 5.00  |  | 98.8 | 70-130 |  |  |  |
| Total Xylenes                      | 7.43  | 0.0250 | 7.50  |  | 99.0 | 70-130 |  |  |  |
| S surrogate: Bromofluorobenzene    | 0.485 |        | 0.500 |  | 97.0 | 70-130 |  |  |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.527 |        | 0.500 |  | 105  | 70-130 |  |  |  |
| S surrogate: Toluene-d8            | 0.514 |        | 0.500 |  | 103  | 70-130 |  |  |  |

## Matrix Spike (2505067-MS1)

Source: E501202-04

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |        |       |    |      |        |  |  |  |
|------------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene                            | 2.27  | 0.0250 | 2.50  | ND | 90.7 | 48-131 |  |  |  |
| Ethylbenzene                       | 2.36  | 0.0250 | 2.50  | ND | 94.3 | 45-135 |  |  |  |
| Toluene                            | 2.34  | 0.0250 | 2.50  | ND | 93.7 | 48-130 |  |  |  |
| o-Xylene                           | 2.40  | 0.0250 | 2.50  | ND | 95.9 | 43-135 |  |  |  |
| p,m-Xylene                         | 4.76  | 0.0500 | 5.00  | ND | 95.2 | 43-135 |  |  |  |
| Total Xylenes                      | 7.16  | 0.0250 | 7.50  | ND | 95.4 | 43-135 |  |  |  |
| S surrogate: Bromofluorobenzene    | 0.479 |        | 0.500 |    | 95.7 | 70-130 |  |  |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.506 |        | 0.500 |    | 101  | 70-130 |  |  |  |
| S surrogate: Toluene-d8            | 0.510 |        | 0.500 |    | 102  | 70-130 |  |  |  |

## Matrix Spike Dup (2505067-MSD1)

Source: E501202-04

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |        |       |    |      |        |      |    |  |
|------------------------------------|-------|--------|-------|----|------|--------|------|----|--|
| Benzene                            | 2.32  | 0.0250 | 2.50  | ND | 92.9 | 48-131 | 2.40 | 23 |  |
| Ethylbenzene                       | 2.43  | 0.0250 | 2.50  | ND | 97.1 | 45-135 | 2.86 | 27 |  |
| Toluene                            | 2.42  | 0.0250 | 2.50  | ND | 96.8 | 48-130 | 3.23 | 24 |  |
| o-Xylene                           | 2.50  | 0.0250 | 2.50  | ND | 100  | 43-135 | 4.21 | 27 |  |
| p,m-Xylene                         | 4.98  | 0.0500 | 5.00  | ND | 99.5 | 43-135 | 4.43 | 27 |  |
| Total Xylenes                      | 7.48  | 0.0250 | 7.50  | ND | 99.7 | 43-135 | 4.35 | 27 |  |
| S surrogate: Bromofluorobenzene    | 0.490 |        | 0.500 |    | 97.9 | 70-130 |      |    |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.523 |        | 0.500 |    | 105  | 70-130 |      |    |  |
| S surrogate: Toluene-d8            | 0.508 |        | 0.500 |    | 102  | 70-130 |      |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |  |  |                                      |
|--|--|--|--------------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name:<br>Project Number:<br>Project Manager: | Sanchez O'Brien<br>06094-0177<br>Kevin Smaka | Reported:<br><br>2/3/2025 12:25:30PM |
|--|--|--|--------------------------------------|

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505067-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |      |       |  |      |        |  |  |  |
|------------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)   | ND    | 20.0 |       |  |      |        |  |  |  |
| S surrogate: Bromofluorobenzene    | 0.487 |      | 0.500 |  | 97.3 | 70-130 |  |  |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.509 |      | 0.500 |  | 102  | 70-130 |  |  |  |
| S surrogate: Toluene-d8            | 0.513 |      | 0.500 |  | 103  | 70-130 |  |  |  |

## LCS (2505067-BS2)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |      |       |  |      |        |  |  |  |
|------------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)   | 50.3  | 20.0 | 50.0  |  | 101  | 70-130 |  |  |  |
| S surrogate: Bromofluorobenzene    | 0.489 |      | 0.500 |  | 97.7 | 70-130 |  |  |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.502 |      | 0.500 |  | 100  | 70-130 |  |  |  |
| S surrogate: Toluene-d8            | 0.523 |      | 0.500 |  | 105  | 70-130 |  |  |  |

## Matrix Spike (2505067-MS2)

Source: E501202-04

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |      |       |    |      |        |  |  |  |
|------------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)   | 53.6  | 20.0 | 50.0  | ND | 107  | 70-130 |  |  |  |
| S surrogate: Bromofluorobenzene    | 0.484 |      | 0.500 |    | 96.7 | 70-130 |  |  |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.504 |      | 0.500 |    | 101  | 70-130 |  |  |  |
| S surrogate: Toluene-d8            | 0.518 |      | 0.500 |    | 104  | 70-130 |  |  |  |

## Matrix Spike Dup (2505067-MSD2)

Source: E501202-04

Prepared: 01/29/25 Analyzed: 01/29/25

|                                    |       |      |       |    |     |        |       |    |  |
|------------------------------------|-------|------|-------|----|-----|--------|-------|----|--|
| Gasoline Range Organics (C6-C10)   | 53.9  | 20.0 | 50.0  | ND | 108 | 70-130 | 0.625 | 20 |  |
| S surrogate: Bromofluorobenzene    | 0.508 |      | 0.500 |    | 102 | 70-130 |       |    |  |
| S surrogate: 1,2-Dichloroethane-d4 | 0.513 |      | 0.500 |    | 103 | 70-130 |       |    |  |
| S surrogate: Toluene-d8            | 0.521 |      | 0.500 |    | 104 | 70-130 |       |    |  |



## Appendix E: Soil Analysis

## QC Summary Data

|  |  |  |                                      |
|--|--|--|--------------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name:<br>Project Number:<br>Project Manager: | Sanchez O'Brien<br>06094-0177<br>Kevin Smaka | Reported:<br><br>2/3/2025 12:25:30PM |
|--|--|--|--------------------------------------|

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505065-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |     |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |     |        |  |  |  |
| Surrogate: n-Nonane             | 52.9 |      | 50.0 |  | 106 | 50-200 |  |  |  |

## LCS (2505065-BS1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 264  | 25.0 | 250  |  | 105 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 54.8 |      | 50.0 |  | 110 | 50-200 |  |  |  |

## Matrix Spike (2505065-MS1)

Source: E501202-07

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |    |     |        |  |  |  |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 264  | 25.0 | 250  | ND | 106 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 53.6 |      | 50.0 |    | 107 | 50-200 |  |  |  |

## Matrix Spike Dup (2505065-MSD1)

Source: E501202-07

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |    |     |        |      |    |  |
|---------------------------------|------|------|------|----|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 270  | 25.0 | 250  | ND | 108 | 38-132 | 2.15 | 20 |  |
| Surrogate: n-Nonane             | 55.0 |      | 50.0 |    | 110 | 50-200 |      |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |   |
|--|---|---|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | <b>Reported:</b><br>2/3/2025 12:25:30PM |
|--|---|---|

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte                                | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes   |
|--|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|---|
| <b>Blank (2505075-BLK1)</b>            |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | ND              | 20.0                        |                         |                           |          |                    |          |                   | Prepared: 01/29/25 Analyzed: 01/29/25                       |
| <b>LCS (2505075-BS1)</b>               |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | 258             | 20.0                        | 250                     |                           | 103      | 90-110             |          |                   | Prepared: 01/29/25 Analyzed: 01/29/25                       |
| <b>Matrix Spike (2505075-MS1)</b>      |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | 252             | 20.0                        | 250                     | ND                        | 101      | 80-120             |          |                   | Source: E501202-02<br>Prepared: 01/29/25 Analyzed: 01/29/25 |
| <b>Matrix Spike Dup (2505075-MSD1)</b> |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | 253             | 20.0                        | 250                     | ND                        | 101      | 80-120             | 0.501    | 20                | Source: E501202-02<br>Prepared: 01/29/25 Analyzed: 01/29/25 |

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**Appendix E: Soil Analysis****Definitions and Notes**

|  |   |                                    |
|--|---|------------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | <b>Reported:</b><br>02/03/25 12:25 |
|--|---|------------------------------------|

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



# Chain of Custody

Page 1 of 9

| Client Information  |              |        |                   | Invoice Information     |              | Lab Use Only                                       |                 | TAT             |              | State  |                |   |                |               |                   |      |     |      |  |
|---|--------------|--------|-------------------|-------------------------|--------------|--|-----------------|-----------------|--------------|--|----------------|---|----------------|---------------|-------------------|------|-----|------|--|
| Client: <u>Duqu</u>   |              |        |                   | Company: _____          |              | Lab WO# <u>E501202</u> Job Number <u>04094-011</u> |                 | 1D 2D 3D Std    |              | NM CO UT TX  |                |   |                |               |                   |      |     |      |  |
| Project Name: <u>Sanchez O'Brien</u>  |              |        |                   | Address: _____          |              |  |                 |                 |              | <input checked="" type="checkbox"/>                                    |                |   |                |               |                   |      |     |      |  |
| Project Manager: <u>Kevin Smaga</u>   |              |        |                   | City, State, Zip: _____ |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| Address: _____  |              |        |                   | Phone: _____            |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| City, State, Zip: _____   |              |        |                   | Email: _____            |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| Phone: _____  |              |        |                   | Miscellaneous: _____    |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| Email: _____  |              |        |                   |                         |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| Sample Information  |              |        |                   |                         |              |  |                 |                 |              | Analysis and Method  |                |   |                | EPA Program   |                   |      |     |      |  |
| Time Sampled  | Date Sampled | Matrix | No. of Containers | Sample ID               | Field Filter | Lab Number   | DRD/ORD by 8015 | GRD/ORD by 8015 | BTEX by 8021 | VOC by 8260  | Chloride 300.0 | BDGC - NM   | TCED 1000 - TX | RCRA 8 Metals | Calcium/Action PM | SDWA | CWA | RCRA |  |
| 10.0  | 1-28-25      | S      | 1                 | 1                       |              | 1  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 2                       |              | 2  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 3                       |              | 3  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 4                       |              | 4  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 5                       |              | 5  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 6                       |              | 6  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 7                       |              | 7  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 8                       |              | 8  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 9                       |              | 9  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
|   |              |        |                   | 10                      |              | 10   |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| Additional Instructions:  |              |        |                   |                         |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  |              |        |                   |                         |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| Sampled by: <u>Kevin Smaga</u>  |              |        |                   |                         |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |
| Relinquished by: (Signature)  |              | Date   |                   | Time                    |              | Received by: (Signature)                           |                 | Date            |              | Time   |                | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on _____<br>Lab Use Only<br>Received on Ice: <input checked="" type="radio"/> Y <input type="radio"/> N<br>T1 _____ T2 _____ T3 _____<br>AVG Temp °C <u>4</u> |                |               |                   |      |     |      |  |
| Relinquished by: (Signature)  |              | Date   |                   | Time                    |              | Received by: (Signature)                           |                 | Date            |              | Time   |                |   |                |               |                   |      |     |      |  |
| Relinquished by: (Signature)  |              | Date   |                   | Time                    |              | Received by: (Signature)                           |                 | Date            |              | Time   |                |   |                |               |                   |      |     |      |  |
| Relinquished by: (Signature)  |              | Date   |                   | Time                    |              | Received by: (Signature)                           |                 | Date            |              | Time   |                |   |                |               |                   |      |     |      |  |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  |              |        |                   |                         |              |  |                 |                 |              | Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA |                |   |                |               |                   |      |     |      |  |
| Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. |              |        |                   |                         |              |  |                 |                 |              |  |                |   |                |               |                   |      |     |      |  |

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Chain of Custody

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| Client Information  |              |                     |                   | Invoice Information     |              | Lab Use Only                                      |                 | TAT                   |              | State                |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|---|--------------|---------------------|-------------------|-------------------------|--------------|---|-----------------|-----------------------|--------------|----------------------|----------------|--|----------------|---------------|-----------------|------|-----|------|------------|---|----|---|---------|---------|--|
| Client: <u>Dugan</u>  |              |                     |                   | Company: _____          |              | Lab WO# <u>E301202</u> Job Number <u>6094-011</u> |                 | 1D 2D 3D Std <u>X</u> |              | NM CO UT TX <u>X</u> |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Project Name: <u>Sanchez O'Brien</u>  |              |                     |                   | Address: _____          |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Project Manager: <u>Kevin Smaga</u>   |              |                     |                   | City, State, Zip: _____ |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Address: _____  |              |                     |                   | Phone: _____            |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| City, State, Zip: _____   |              |                     |                   | Email: _____            |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Phone: _____  |              |                     |                   | Miscellaneous: _____    |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Email: _____  |              |                     |                   |                         |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Sample Information  |              |                     |                   |                         |              |   |                 |                       |              | Analysis and Method  |                |  |                | EPA Program   |                 |      |     |      |            |   |    |   |         |         |  |
| Time Sampled  | Date Sampled | Matrix              | No. of Containers | Sample ID               | Field Filter | Lab Number  | DRO/DRO by 8015 | GRO/DRO by 8015       | BTEX by 8021 | VOC by 8260          | Chloride 300.0 | BODOC - NM   | TCEQ 1005 - TX | RCRA 8 Metals | Cation/Anion PM | SDWA | CWA | RCRA | Compliance | Y | or | N | PWSID # | Remarks |  |
| 10:00   | 1-28-25      | S                   | 1                 | 11                      |              | 11  |                 |                       |              |                      |                | X  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 12                      |              | 12  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 13                      |              | 13  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 14                      |              | 14  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 15                      |              | 15  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 16                      |              | 16  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 17                      |              | 17  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 18                      |              | 18  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 19                      |              | 19  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
|   |              |                     |                   | 20                      |              | 20  |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Additional Instructions:  |              |                     |                   |                         |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  |              |                     |                   |                         |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Sampled by: <u>Kevin Smaga</u>  |              |                     |                   |                         |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Relinquished by: (Signature) <u>Kevin Smaga</u>   |              | Date <u>1-28-25</u> |                   | Time <u>13:05</u>       |              | Received by: (Signature) <u>Paula Mar</u>         |                 | Date <u>1/28/25</u>   |              | Time <u>13:05</u>    |                | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on _____ |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Relinquished by: (Signature)  |              | Date                |                   | Time                    |              | Received by: (Signature)                          |                 | Date                  |              | Time                 |                | Lab Use Only   |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Relinquished by: (Signature)  |              | Date                |                   | Time                    |              | Received by: (Signature)                          |                 | Date                  |              | Time                 |                | Received on ice: <u>Y</u> / N  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Relinquished by: (Signature)  |              | Date                |                   | Time                    |              | Received by: (Signature)                          |                 | Date                  |              | Time                 |                | T1 _____ T2 _____ T3 _____   |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Relinquished by: (Signature)  |              | Date                |                   | Time                    |              | Received by: (Signature)                          |                 | Date                  |              | Time                 |                | AVG Temp °C <u>4</u>   |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  |              |                     |                   |                         |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA  |              |                     |                   |                         |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |
| Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. |              |                     |                   |                         |              |   |                 |                       |              |                      |                |  |                |               |                 |      |     |      |            |   |    |   |         |         |  |

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## Appendix E: Soil Analysis

## Envirotech Analytical Laboratory

Printed: 1/29/2025 9:43:52AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|         |                                 |                 |                            |                |              |
|---------|---------------------------------|-----------------|----------------------------|----------------|--------------|
| Client: | Dugan Production Corp.          | Date Received:  | 01/28/25 13:05             | Work Order ID: | E501202      |
| Phone:  | 505-486-6207                    | Date Logged In: | 01/28/25 13:57             | Logged In By:  | Caitlin Mars |
| Email:  | kevin.smaka@duganproduction.com | Due Date:       | 02/04/25 17:00 (5 day TAT) |                |              |

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Kavin

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Project Sanchez O Brien has been separated into 4 reports due to high sample volume. WO are E501202 to E501205.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



## Appendix E: Soil Analysis

Figure B: Envirotech Analytical Report for Soil Samples E501203-01: E501203-20 (21-40)

Report to:  
Kevin Smaka



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



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*Practical Solutions for a Better Tomorrow*

## Analytical Report

Dugan Production Corp.

Project Name: Sanchez O'Brien

Work Order: E501203

Job Number: 06094-0177

Received: 1/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/4/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

## Appendix E: Soil Analysis

Date Reported: 2/4/25

Kevin Smaka  
PO Box 420  
Farmington, NM 87499



Project Name: Sanchez O'Brien  
Workorder: E501203  
Date Received: 1/28/2025 1:05:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/28/2025 1:05:00PM, under the Project Name: Sanchez O'Brien.

The analytical test results summarized in this report with the Project Name: Sanchez O'Brien apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

### **Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Appendix E: Soil Analysis

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## Appendix E: Soil Analysis

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## Appendix E: Soil Analysis

## Sample Summary

|  |   |                             |
|--|---|-----------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>02/04/25 06:59 |
|--|---|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| 21               | E501203-01A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 22               | E501203-02A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 23               | E501203-03A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 24               | E501203-04A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 25               | E501203-05A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 26               | E501203-06A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 27               | E501203-07A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 28               | E501203-08A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 29               | E501203-09A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 30               | E501203-10A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 31               | E501203-11A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 32               | E501203-12A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 33               | E501203-13A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 34               | E501203-14A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 35               | E501203-15A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 36               | E501203-16A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 37               | E501203-17A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 38               | E501203-18A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 39               | E501203-19A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 40               | E501203-20A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-01

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 88.0 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 93.6 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505071 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 110 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505077 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

22

E501203-02

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 86.1 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 93.7 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 108 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

23

E501203-03

| Analyte   | Result | Reporting<br>Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|--------------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505069 |       |
| Benzene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500             | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 88.6 % | 70-130             |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505069 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 93.2 % | 70-130             |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: NV |          | Batch: 2505071 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 105 %  | 61-141             |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: AK |          | Batch: 2505077 |       |
| Chloride  | ND     | 20.0               | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

24

E501203-04

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 92.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 93.3 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505071 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | 59.9   | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 107 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505077 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

25

E501203-05

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 83.5 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 92.6 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505071 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 104 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505077 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

26

E501203-06

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 92.3 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 92.6 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505071 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 109 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505077 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

27

E501203-07

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 91.7 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 93.1 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505071 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 105 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505077 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

28

E501203-08

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   |        | 91.6 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               |        | 92.4 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   |        | 102 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-09

| Analyte   | Result | Reporting<br>Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|--------------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500             | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 92.3 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 91.8 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 99.7 % | 61-141             |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0               | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-10

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 92.7 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 92.5 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 105 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-11

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   |        | 93.0 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               |        | 92.1 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   |        | 106 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-12

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 93.5 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 90.9 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 110 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-13

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   |        | 93.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               |        | 91.9 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   |        | 99.1 %          | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-14

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 93.4 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 91.7 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 103 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-15

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 93.4 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 92.6 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 105 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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## E501203-16

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles Organics by EPA 8021B</b>                |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   |        | 93.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               |        | 92.1 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   |        | 107 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-17

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 94.0 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 91.8 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 107 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-18

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 94.0 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 91.5 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 105 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

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E501203-19

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |             |          |                |       |
|   | 92.9 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505069 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |             |          |                |       |
|   | 91.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505071 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: n-Nonane</i>                            |        |                 |             |          |                |       |
|   | 102 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505077 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                    |
|------------------------|------------------|-----------------|--------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                    |
| PO Box 420             | Project Number:  | 06094-0177      | Reported:          |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/4/2025 6:59:31AM |

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E501203-20

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   |        | 92.1 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505069 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               |        | 93.0 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505071 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   |        | 103 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505077 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505069-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| Ethylbenzene                        | ND   | 0.0250 |      |  |      |        |  |  |  |
| Toluene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| o-Xylene                            | ND   | 0.0250 |      |  |      |        |  |  |  |
| p,m-Xylene                          | ND   | 0.0500 |      |  |      |        |  |  |  |
| Total Xylenes                       | ND   | 0.0250 |      |  |      |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.73 |        | 8.00 |  | 84.2 | 70-130 |  |  |  |

## LCS (2505069-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | 5.51 | 0.0250 | 5.00 |  | 110  | 70-130 |  |  |  |
| Ethylbenzene                        | 5.23 | 0.0250 | 5.00 |  | 105  | 70-130 |  |  |  |
| Toluene                             | 5.39 | 0.0250 | 5.00 |  | 108  | 70-130 |  |  |  |
| o-Xylene                            | 5.18 | 0.0250 | 5.00 |  | 104  | 70-130 |  |  |  |
| p,m-Xylene                          | 10.6 | 0.0500 | 10.0 |  | 106  | 70-130 |  |  |  |
| Total Xylenes                       | 15.8 | 0.0250 | 15.0 |  | 105  | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.76 |        | 8.00 |  | 84.5 | 70-130 |  |  |  |

## Matrix Spike (2505069-MS1)

Source: E501203-05

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |    |      |        |  |  |  |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene                             | 5.44 | 0.0250 | 5.00 | ND | 109  | 54-133 |  |  |  |
| Ethylbenzene                        | 5.16 | 0.0250 | 5.00 | ND | 103  | 61-133 |  |  |  |
| Toluene                             | 5.32 | 0.0250 | 5.00 | ND | 106  | 61-130 |  |  |  |
| o-Xylene                            | 5.12 | 0.0250 | 5.00 | ND | 102  | 63-131 |  |  |  |
| p,m-Xylene                          | 10.5 | 0.0500 | 10.0 | ND | 105  | 63-131 |  |  |  |
| Total Xylenes                       | 15.6 | 0.0250 | 15.0 | ND | 104  | 63-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.75 |        | 8.00 |    | 84.3 | 70-130 |  |  |  |

## Matrix Spike Dup (2505069-MSD1)

Source: E501203-05

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |    |      |        |       |    |  |
|-------------------------------------|------|--------|------|----|------|--------|-------|----|--|
| Benzene                             | 5.43 | 0.0250 | 5.00 | ND | 109  | 54-133 | 0.182 | 20 |  |
| Ethylbenzene                        | 5.15 | 0.0250 | 5.00 | ND | 103  | 61-133 | 0.235 | 20 |  |
| Toluene                             | 5.31 | 0.0250 | 5.00 | ND | 106  | 61-130 | 0.296 | 20 |  |
| o-Xylene                            | 5.10 | 0.0250 | 5.00 | ND | 102  | 63-131 | 0.408 | 20 |  |
| p,m-Xylene                          | 10.4 | 0.0500 | 10.0 | ND | 104  | 63-131 | 0.233 | 20 |  |
| Total Xylenes                       | 15.5 | 0.0250 | 15.0 | ND | 104  | 63-131 | 0.291 | 20 |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.64 |        | 8.00 |    | 83.0 | 70-130 |       |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505069-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.31 |      | 8.00 |  | 91.3 | 70-130 |  |  |  |

## LCS (2505069-BS2)

Prepared: 01/29/25 Analyzed: 01/30/25

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 41.2 | 20.0 | 50.0 |  | 82.4 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.44 |      | 8.00 |  | 93.0 | 70-130 |  |  |  |

## Matrix Spike (2505069-MS2)

Source: E501203-05

Prepared: 01/29/25 Analyzed: 01/30/25

|   |      |      |      |    |      |        |  |  |  |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 41.7 | 20.0 | 50.0 | ND | 83.4 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.59 |      | 8.00 |    | 94.8 | 70-130 |  |  |  |

## Matrix Spike Dup (2505069-MSD2)

Source: E501203-05

Prepared: 01/29/25 Analyzed: 01/30/25

|   |      |      |      |    |      |        |      |    |  |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 42.5 | 20.0 | 50.0 | ND | 84.9 | 70-130 | 1.86 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.58 |      | 8.00 |    | 94.7 | 70-130 |      |    |  |



## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505071-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |     |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |     |        |  |  |  |
| Surrogate: <i>n</i> -Nonane     | 53.2 |      | 50.0 |  | 106 | 61-141 |  |  |  |

## LCS (2505071-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 265  | 25.0 | 250  |  | 106 | 66-144 |  |  |  |
| Surrogate: <i>n</i> -Nonane     | 53.5 |      | 50.0 |  | 107 | 61-141 |  |  |  |

## Matrix Spike (2505071-MS1)

Source: E501203-06

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |    |     |        |  |  |  |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 284  | 25.0 | 250  | ND | 114 | 56-156 |  |  |  |
| Surrogate: <i>n</i> -Nonane     | 52.7 |      | 50.0 |    | 105 | 61-141 |  |  |  |

## Matrix Spike Dup (2505071-MSD1)

Source: E501203-06

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |    |     |        |      |    |  |
|---------------------------------|------|------|------|----|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 289  | 25.0 | 250  | ND | 116 | 56-156 | 1.75 | 20 |  |
| Surrogate: <i>n</i> -Nonane     | 54.5 |      | 50.0 |    | 109 | 61-141 |      |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 6:59:31AM |
|--|---|---------------------------------|

## Anions by EPA 300.0/9056A

Analyst: AK

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505077-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride ND 20.0

## LCS (2505077-BS1)

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride 258 20.0 250 103 90-110

## Matrix Spike (2505077-MS1)

Source: E501203-03

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride 260 20.0 250 ND 104 80-120

## Matrix Spike Dup (2505077-MSD1)

Source: E501203-03

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride 260 20.0 250 ND 104 80-120 0.119 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**Appendix E: Soil Analysis****Definitions and Notes**

|  |   |                                    |
|--|---|------------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | <b>Reported:</b><br>02/04/25 06:59 |
|--|---|------------------------------------|

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Chain of Custody

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| Client Information  |              |        |                   | Invoice Information     |              |            |                 | Lab Use Only           |             |             |                | TAT                        |               |               |                  | State  |     |      |  |
|---|--------------|--------|-------------------|-------------------------|--------------|------------|-----------------|------------------------|-------------|-------------|----------------|----------------------------|---------------|---------------|------------------|--|-----|------|--|
| Client: <u>Duagh</u>  |              |        |                   | Company: _____          |              |            |                 | Lab WO# <u>E501203</u> |             |             |                | Job Number <u>0094-023</u> |               |               |                  | 1D 2D 3D Std <input checked="" type="checkbox"/> |     |      |  |
| Project Name: <u>Sanchez O'Brien</u>  |              |        |                   | Address: _____          |              |            |                 |                        |             |             |                |                            |               |               |                  | NM CO UT TX <input checked="" type="checkbox"/>  |     |      |  |
| Project Manager: <u>Kevin Smaka</u>   |              |        |                   | City, State, Zip: _____ |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Address: _____  |              |        |                   | Phone: _____            |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| City, State, Zip: _____   |              |        |                   | Email: _____            |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Phone: _____  |              |        |                   | Miscellaneous: _____    |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Email: _____  |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Sample Information  |              |        |                   |                         |              |            |                 |                        |             |             |                | Analysis and Method        |               |               |                  | EPA Program                                      |     |      |  |
| Time Sampled  | Date Sampled | Matrix | No. of Containers | Sample ID               | Field Filter | Lab Number | DRD/ORD by 8015 | GRD/ORD by 8015        | BTX by 8021 | VOC by 8260 | Chloride 300.0 | BEDOC - NM                 | TEQ 1005 - TX | RCRA 8 Metals | Cation/Anion Pkg | SDWA   | CWA | RCRA |  |
| 10:00   | 1-28-25      | S      | 1                 | 21                      |              | 1          |                 |                        |             |             |                | X                          |               |               |                  |  |     |      |  |
|   |              |        |                   | 22                      |              | 2          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 23                      |              | 3          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 24                      |              | 4          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 25                      |              | 5          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 26                      |              | 6          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 27                      |              | 7          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 28                      |              | 8          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 29                      |              | 9          |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
|   |              |        |                   | 30                      |              | 10         |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Additional Instructions:  |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Sampled by: <u>Kevin Smaka</u>  |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Relinquished by: (Signature) <u>[Signature]</u> Date <u>1-28-25</u> Time <u>13:05</u> Received by: (Signature) <u>[Signature]</u> Date <u>1/28/25</u> Time <u>13:05</u>   |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____   |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____   |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____   |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA  |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |
| Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. |              |        |                   |                         |              |            |                 |                        |             |             |                |                            |               |               |                  |  |     |      |  |

Lab Use Only  
Received on ice: ☒ Y / N  
T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
AVG Temp °C 4

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### Chain of Custody

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| Client Information                   |  |  |  | Invoice Information |  | Lab Use Only            |  | TAT                           |  | State |    |    |     |    |    |    |    |
|--------------------------------------|--|--|--|---------------------|--|-------------------------|--|-------------------------------|--|-------|----|----|-----|----|----|----|----|
| Client: <u>Dugan</u>                 |  |  |  | Company:            |  | Lab Work: <u>ESD203</u> |  | Job Number: <u>10094-0177</u> |  | 1D    | 2D | 3D | Std | NM | CO | UT | TX |
| Project Name: <u>Sanchez O'Brien</u> |  |  |  | Address:            |  |                         |  |                               |  |       |    |    |     | X  |    |    |    |
| Project Manager:                     |  |  |  | City, State, Zip:   |  |                         |  |                               |  |       |    |    |     |    |    |    |    |
| Address:                             |  |  |  | Phone:              |  |                         |  |                               |  |       |    |    |     |    |    |    |    |
| City, State, Zip:                    |  |  |  | Email:              |  |                         |  |                               |  |       |    |    |     |    |    |    |    |
| Phone:                               |  |  |  | Miscellaneous:      |  |                         |  |                               |  |       |    |    |     |    |    |    |    |
| Email:                               |  |  |  |                     |  |                         |  |                               |  |       |    |    |     |    |    |    |    |

| Sample Information |              |        |                   |           |              | Analysis and Method |                 |                 |             |             |                |            |                |               |                  | EPA Program |     |      |  |
|--------------------|--------------|--------|-------------------|-----------|--------------|---------------------|-----------------|-----------------|-------------|-------------|----------------|------------|----------------|---------------|------------------|-------------|-----|------|--|
| Time Sampled       | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number          | DRD/DRO by 8015 | GRD/DRO by 8015 | BTX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCRQ 1005 - TX | RCRA 8 Metals | Cation/Anion Pkg | SDWA        | CWA | RCRA |  |
| 10/09              | 1-28-25      | S      | 1                 | 31        |              | 11                  |                 |                 |             |             |                | X          |                |               |                  |             |     |      |  |
|                    |              |        |                   | 32        |              | 12                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 33        |              | 13                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 34        |              | 14                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 35        |              | 15                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 36        |              | 16                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 37        |              | 17                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 38        |              | 18                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 39        |              | 19                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |
|                    |              |        |                   | 40        |              | 20                  |                 |                 |             |             |                |            |                |               |                  |             |     |      |  |

**Additional Instructions:**  
 I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  
 Sampled by: Kevin Smak9

|   |  |      |      |   |  |      |      |
|---|--|------|------|---|--|------|------|
| Relinquished by: (Signature) <u>Kevin Smak9</u> |  | Date | Time | Received by: (Signature) <u>Caitlin Ma...</u> |  | Date | Time |
| Relinquished by: (Signature)                    |  | Date | Time | Received by: (Signature)                      |  | Date | Time |
| Relinquished by: (Signature)                    |  | Date | Time | Received by: (Signature)                      |  | Date | Time |
| Relinquished by: (Signature)                    |  | Date | Time | Received by: (Signature)                      |  | Date | Time |

**Lab Use Only**  
 Received on ice: (Y) N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_  
 Container type: g - glass, p - poly/plastic, ag - amber glass, v - VOA \_\_\_\_\_

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sample is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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## Appendix E: Soil Analysis

## Envirotech Analytical Laboratory

Printed: 1/29/2025 10:32:18AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|         |                                 |                 |                            |                |              |
|---------|---------------------------------|-----------------|----------------------------|----------------|--------------|
| Client: | Dugan Production Corp.          | Date Received:  | 01/28/25 13:05             | Work Order ID: | E501203      |
| Phone:  | 505-486-6207                    | Date Logged In: | 01/28/25 14:00             | Logged In By:  | Caitlin Mars |
| Email:  | kevin.smaka@duganproduction.com | Due Date:       | 02/04/25 17:00 (5 day TAT) |                |              |

Chain of Custody (COC)

- |  |     |                             |
|--|-----|-----------------------------|
| 1. Does the sample ID match the COC?   | Yes |                             |
| 2. Does the number of samples per sampling site location match the COC   | Yes |                             |
| 3. Were samples dropped off by client or carrier?  | Yes | Carrier: <u>Kevin Smaka</u> |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  | Yes |                             |
| 5. Were all samples received within holding time?  | Yes |                             |
| Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. |     |                             |

Sample Turn Around Time (TAT)

- |   |     |
|---|-----|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |
|---|-----|

Sample Cooler

- |  |     |
|--|-----|
| 7. Was a sample cooler received?   | Yes |
| 8. If yes, was cooler received in good condition?  | Yes |
| 9. Was the sample(s) received intact, i.e., not broken?  | Yes |
| 10. Were custody/security seals present?   | No  |
| 11. If yes, were custody/security seals intact?  | NA  |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C             | Yes |
| Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling |     |
| 13. If no visible ice, record the temperature. Actual sample temperature: 4°C                  |     |

Sample Container

- |  |     |
|--|-----|
| 14. Are aqueous VOC samples present?   | No  |
| 15. Are VOC samples collected in VOA Vials?                                    | NA  |
| 16. Is the head space less than 6-8 mm (pea sized or less)?                    | NA  |
| 17. Was a trip blank (TB) included for VOC analyses?                           | NA  |
| 18. Are non-VOC samples collected in the correct containers?                   | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

Field Label

- |   |     |
|---|-----|
| 20. Were field sample labels filled out with the minimum information: |     |
| Sample ID?  | Yes |
| Date/Time Collected?  | Yes |
| Collectors name?  | No  |

Sample Preservation

- |   |    |
|---|----|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved?                                | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

Multiphase Sample Matrix

- |  |    |
|--|----|
| 26. Does the sample have more than one phase, i.e., multiphase?    | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

Subcontract Laboratory

- |   |                        |
|---|------------------------|
| 28. Are samples required to get sent to a subcontract laboratory?       | No                     |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA Subcontract Lab: NA |

Client InstructionComments/Resolution

Project Sanchez O Brien has been separated into 4 reports due to high sample volume. WO are E501202 to E501205.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

**Appendix E: Soil Analysis****Figure C: Envirotech Analytical Report for Soil Samples E501204-01: E501204-20 (41-60)**

Report to:  
Kevin Smaka



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



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*Practical Solutions for a Better Tomorrow*

## Analytical Report

Dugan Production Corp.

Project Name: Sanchez O'Brien

Work Order: E501204

Job Number: 06094-0177

Received: 1/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/4/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

## Appendix E: Soil Analysis

Date Reported: 2/4/25

Kevin Smaka  
PO Box 420  
Farmington, NM 87499



Project Name: Sanchez O'Brien  
Workorder: E501204  
Date Received: 1/28/2025 1:05:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/28/2025 1:05:00PM, under the Project Name: Sanchez O'Brien.

The analytical test results summarized in this report with the Project Name: Sanchez O'Brien apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

### **Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



## Appendix E: Soil Analysis

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## Appendix E: Soil Analysis

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## Appendix E: Soil Analysis

## Sample Summary

|  |   |                             |
|--|---|-----------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>02/04/25 07:02 |
|--|---|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| 41               | E501204-01A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 42               | E501204-02A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 43               | E501204-03A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 44               | E501204-04A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 45               | E501204-05A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 46               | E501204-06A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 47               | E501204-07A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 48               | E501204-08A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 49               | E501204-09A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 50               | E501204-10A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 51               | E501204-11A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 52               | E501204-12A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 53               | E501204-13A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 54               | E501204-14A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 55               | E501204-15A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 56               | E501204-16A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 57               | E501204-17A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 58               | E501204-18A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 59               | E501204-19A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 60               | E501204-20A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-01

| Analyte   | Result | Reporting<br>Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|--------------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505070 |       |
| Benzene   | ND     | 0.0250             | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250             | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250             | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250             | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500             | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250             | 1           | 01/29/25 | 01/29/25       |       |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            | 87.5 % | 70-130             |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505070 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1           | 01/29/25 | 01/29/25       |       |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        | 96.4 % | 70-130             |             | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg              | Analyst: AF |          | Batch: 2505076 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1           | 01/29/25 | 01/29/25       |       |
| <i>Surrogate: n-Nonane</i>                            | 125 %  | 61-141             |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg              | Analyst: JM |          | Batch: 2505084 |       |
| Chloride  | ND     | 20.0               | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-02

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed | Notes          |
|---|--------|-----------------|-------------|----------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 86.7 % | 70-130          |             | 01/29/25 | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 96.1 % | 70-130          |             | 01/29/25 | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: AF |          |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25 |                |
| Surrogate: n-Nonane                                   | 117 %  | 61-141          |             | 01/29/25 | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: JM |          |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                    |
|------------------------|------------------|-----------------|--------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                    |
| PO Box 420             | Project Number:  | 06094-0177      | <b>Reported:</b>   |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/4/2025 7:02:02AM |

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E501204-03

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505070 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/29/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/29/25       |       |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |             |          |                |       |
|   |        | 87.9 %          | 70-130      | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505070 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |             |          |                |       |
|   |        | 94.2 %          | 70-130      | 01/29/25 | 01/29/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AF |          | Batch: 2505076 |       |
| Diesel Range Organics (C10-C28)                       | 35.4   | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | 154    | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| <i>Surrogate: n-Nonane</i>                            |        |                 |             |          |                |       |
|   |        | 121 %           | 61-141      | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: JM |          | Batch: 2505084 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                    |
|------------------------|------------------|-----------------|--------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                    |
| PO Box 420             | Project Number:  | 06094-0177      | <b>Reported:</b>   |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/4/2025 7:02:02AM |

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E501204-04

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   | 85.9 % | 70-130          |          | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   | 95.6 % | 70-130          |          | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | 31.5   | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | 55.5   | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   | 120 %  | 61-141          |          | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                    |
|------------------------|------------------|-----------------|--------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                    |
| PO Box 420             | Project Number:  | 06094-0177      | <b>Reported:</b>   |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/4/2025 7:02:02AM |

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E501204-05

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 85.9 % | 70-130          |          | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 95.7 % | 70-130          |          | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   | 121 %  | 61-141          |          | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-06

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 86.1 % | 70-130          |          | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 98.3 % | 70-130          |          | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   | 118 %  | 61-141          |          | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-07

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/29/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 86.4 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 97.4 %          | 70-130   | 01/29/25    | 01/29/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 128 %           | 61-141   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-08

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed | Notes          |
|---|--------|-----------------|-------------|----------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 85.7 % | 70-130          |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 97.5 % | 70-130          |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: AF |          |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25 |                |
| Surrogate: n-Nonane                                   | 119 %  | 61-141          |             | 01/29/25 | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: JM |          |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-09

| Analyte   | Result | Reporting<br>Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|--------------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505070 |       |
| Benzene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500             | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 84.4 % | 70-130             |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505070 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 97.8 % | 70-130             |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: AF |          | Batch: 2505076 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 121 %  | 61-141             |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: JM |          | Batch: 2505084 |       |
| Chloride  | ND     | 20.0               | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-10

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 84.0 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 97.8 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   | 122 %  | 61-141          |          | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-11

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 84.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 97.4 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 121 %           | 61-141   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-12

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 84.7 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 97.7 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 119 %           | 61-141   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-13

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 84.0 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 97.9 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   | 124 %  | 61-141          |          | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |  |
|--|---|--|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | <b>Reported:</b><br>2/4/2025 7:02:02AM |
|--|---|--|

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E501204-14

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles Organics by EPA 8021B</b>                |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 84.2 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 98.0 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 120 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-15

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505070 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 83.5 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505070 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 98.7 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AF |          | Batch: 2505076 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 118 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: JM |          | Batch: 2505084 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-16

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles Organics by EPA 8021B</b>                |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 82.9 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 99.1 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 121 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                    |
|------------------------|------------------|-----------------|--------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                    |
| PO Box 420             | Project Number:  | 06094-0177      | <b>Reported:</b>   |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/4/2025 7:02:02AM |

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E501204-17

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles Organics by EPA 8021B</b>                |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 83.2 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 97.6 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | 51.0   | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 124 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-18

| Analyte   | Result | Reporting<br>Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|--------------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500             | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 83.0 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 97.9 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 123 %  | 61-141             |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0               | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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E501204-19

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 82.2 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505070 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 99.1 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505076 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 121 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JM |          | Batch: 2505084 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

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## E501204-20

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505070 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |             |          |                |       |
|   | 83.2 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505070 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |             |          |                |       |
|   | 148 %  | 70-130          |             | 01/29/25 | 01/30/25       | S3    |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AF |          | Batch: 2505076 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: n-Nonane</i>                            |        |                 |             |          |                |       |
|   | 119 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: JM |          | Batch: 2505084 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |



## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505070-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| Ethylbenzene                        | ND   | 0.0250 |      |  |      |        |  |  |  |
| Toluene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| o-Xylene                            | ND   | 0.0250 |      |  |      |        |  |  |  |
| p,m-Xylene                          | ND   | 0.0500 |      |  |      |        |  |  |  |
| Total Xylenes                       | ND   | 0.0250 |      |  |      |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.12 |        | 8.00 |  | 89.0 | 70-130 |  |  |  |

## LCS (2505070-BS1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | 5.16 | 0.0250 | 5.00 |  | 103  | 70-130 |  |  |  |
| Ethylbenzene                        | 4.94 | 0.0250 | 5.00 |  | 98.9 | 70-130 |  |  |  |
| Toluene                             | 5.07 | 0.0250 | 5.00 |  | 101  | 70-130 |  |  |  |
| o-Xylene                            | 4.95 | 0.0250 | 5.00 |  | 99.0 | 70-130 |  |  |  |
| p,m-Xylene                          | 10.0 | 0.0500 | 10.0 |  | 100  | 70-130 |  |  |  |
| Total Xylenes                       | 15.0 | 0.0250 | 15.0 |  | 99.9 | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.10 |        | 8.00 |  | 88.7 | 70-130 |  |  |  |

## Matrix Spike (2505070-MS1)

Source: E501204-03

Prepared: 01/29/25 Analyzed: 01/29/25

|                                     |      |        |      |    |      |        |  |  |  |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene                             | 5.38 | 0.0250 | 5.00 | ND | 108  | 54-133 |  |  |  |
| Ethylbenzene                        | 5.14 | 0.0250 | 5.00 | ND | 103  | 61-133 |  |  |  |
| Toluene                             | 5.27 | 0.0250 | 5.00 | ND | 105  | 61-130 |  |  |  |
| o-Xylene                            | 5.12 | 0.0250 | 5.00 | ND | 102  | 63-131 |  |  |  |
| p,m-Xylene                          | 10.4 | 0.0500 | 10.0 | ND | 104  | 63-131 |  |  |  |
| Total Xylenes                       | 15.5 | 0.0250 | 15.0 | ND | 104  | 63-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.06 |        | 8.00 |    | 88.2 | 70-130 |  |  |  |

## Matrix Spike Dup (2505070-MSD1)

Source: E501204-03

Prepared: 01/29/25 Analyzed: 01/29/25

|                                     |      |        |      |    |      |        |      |    |  |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene                             | 5.29 | 0.0250 | 5.00 | ND | 106  | 54-133 | 1.65 | 20 |  |
| Ethylbenzene                        | 5.05 | 0.0250 | 5.00 | ND | 101  | 61-133 | 1.61 | 20 |  |
| Toluene                             | 5.19 | 0.0250 | 5.00 | ND | 104  | 61-130 | 1.70 | 20 |  |
| o-Xylene                            | 5.05 | 0.0250 | 5.00 | ND | 101  | 63-131 | 1.51 | 20 |  |
| p,m-Xylene                          | 10.3 | 0.0500 | 10.0 | ND | 103  | 63-131 | 1.43 | 20 |  |
| Total Xylenes                       | 15.3 | 0.0250 | 15.0 | ND | 102  | 63-131 | 1.46 | 20 |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.99 |        | 8.00 |    | 87.4 | 70-130 |      |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505070-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.52 |      | 8.00 |  | 94.0 | 70-130 |  |  |  |

## LCS (2505070-BS2)

Prepared: 01/29/25 Analyzed: 01/29/25

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 44.1 | 20.0 | 50.0 |  | 88.2 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.57 |      | 8.00 |  | 94.6 | 70-130 |  |  |  |

## Matrix Spike (2505070-MS2)

Source: E501204-03

Prepared: 01/29/25 Analyzed: 01/29/25

|   |      |      |      |    |      |        |  |  |  |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 40.5 | 20.0 | 50.0 | ND | 81.1 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.77 |      | 8.00 |    | 97.2 | 70-130 |  |  |  |

## Matrix Spike Dup (2505070-MSD2)

Source: E501204-03

Prepared: 01/29/25 Analyzed: 01/29/25

|   |      |      |      |    |      |        |      |    |  |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 41.0 | 20.0 | 50.0 | ND | 82.0 | 70-130 | 1.08 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.70 |      | 8.00 |    | 96.3 | 70-130 |      |    |  |



## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 7:02:02AM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505076-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |     |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |     |        |  |  |  |
| Surrogate: n-Nonane             | 56.2 |      | 50.0 |  | 112 | 61-141 |  |  |  |

## LCS (2505076-BS1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 281  | 25.0 | 250  |  | 112 | 66-144 |  |  |  |
| Surrogate: n-Nonane             | 58.7 |      | 50.0 |  | 117 | 61-141 |  |  |  |

## Matrix Spike (2505076-MS1)

Source: E501204-05

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |    |     |        |  |  |  |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 296  | 25.0 | 250  | ND | 118 | 56-156 |  |  |  |
| Surrogate: n-Nonane             | 59.0 |      | 50.0 |    | 118 | 61-141 |  |  |  |

## Matrix Spike Dup (2505076-MSD1)

Source: E501204-05

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |    |     |        |      |    |  |
|---------------------------------|------|------|------|----|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 292  | 25.0 | 250  | ND | 117 | 56-156 | 1.18 | 20 |  |
| Surrogate: n-Nonane             | 58.0 |      | 50.0 |    | 116 | 61-141 |      |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |  |
|--|---|--|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | <b>Reported:</b><br>2/4/2025 7:02:02AM |
|--|---|--|

## Anions by EPA 300.0/9056A

Analyst: JM

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

**Blank (2505084-BLK1)**

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride ND 20.0

**LCS (2505084-BS1)**

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride 253 20.0 250 101 90-110

**Matrix Spike (2505084-MS1)**

Source: E501204-04

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride 254 20.0 250 ND 101 80-120

**Matrix Spike Dup (2505084-MSD1)**

Source: E501204-04

Prepared: 01/29/25 Analyzed: 01/29/25

Chloride 254 20.0 250 ND 102 80-120 0.356 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**Appendix E: Soil Analysis****Definitions and Notes**

|  |   |                                    |
|--|---|------------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | <b>Reported:</b><br>02/04/25 07:02 |
|--|---|------------------------------------|

S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Appendix E: Soil Analysis

Chain of Custody

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| Client Information  |              |        |                   | Invoice Information     |              | Lab Use Only  |                 | TAT   |              |                     |                | State                |                |                   |                  |   |     |      |  |
|---|--------------|--------|-------------------|-------------------------|--------------|---|-----------------|---|--------------|---------------------|----------------|----------------------|----------------|-------------------|------------------|---|-----|------|--|
| Client: <u>Dugan</u>  |              |        |                   | Company: _____          |              | Lab WO# <u>ES01204</u> Job Number <u>06094-0177</u> |                 | 1D 2D 3D Std <u>X</u>                       |              |                     |                | NM CO UT TX <u>X</u> |                |                   |                  |   |     |      |  |
| Project Name: <u>Sanchez O'Brien</u>  |              |        |                   | Address: _____          |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Project Manager: _____  |              |        |                   | City, State, Zip: _____ |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Address: _____  |              |        |                   | Phone: _____            |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| City, State, Zip: _____   |              |        |                   | Email: _____            |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Phone: _____  |              |        |                   | Miscellaneous: _____    |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Email: _____  |              |        |                   |                         |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Sample Information  |              |        |                   |                         |              |   |                 |   |              | Analysis and Method |                |                      |                | EPA Program       |                  |   |     |      |  |
| Time Sampled  | Date Sampled | Matrix | No. of Containers | Sample ID               | Field Filter | Lab Number  | DRD/DRD by 8015 | GRD/GRD by 8015                             | BTEX by 8021 | VOC by 8260         | Chloride 300.0 | SGOC - NM            | TCED 1005 - TX | RCRA 8 Metals     | Cation/Anion Pkg | SDWA  | CWA | RCRA |  |
| 10:00   | 1-28-25      | S      | 1                 | 41                      |              | 1   |                 |   |              |                     |                | X                    |                |                   |                  |   |     |      |  |
|   |              |        |                   | 42                      |              | 2   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 43                      |              | 3   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 44                      |              | 4   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 45                      |              | 5   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 46                      |              | 6   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 47                      |              | 7   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 48                      |              | 8   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 49                      |              | 9   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
|   |              |        |                   | 50                      |              | 10  |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Additional Instructions:  |              |        |                   |                         |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  |              |        |                   |                         |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Sampled by: <u>Kevin Smaka</u>  |              |        |                   |                         |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Relinquished by: (Signature) <u>[Signature]</u>   |              |        |                   | Date <u>1-28-25</u>     |              | Time <u>13:05</u>                                   |                 | Received by: (Signature) <u>[Signature]</u> |              |                     |                | Date <u>1-28-25</u>  |                | Time <u>13:05</u> |                  | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time  |                 | Received by: (Signature)                    |              |                     |                | Date                 |                | Time              |                  | Lab Use Only  |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time  |                 | Received by: (Signature)                    |              |                     |                | Date                 |                | Time              |                  | Received on ice: <u>Y</u> / N   |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time  |                 | Received by: (Signature)                    |              |                     |                | Date                 |                | Time              |                  | T1 _____ T2 _____ T3 _____  |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time  |                 | Received by: (Signature)                    |              |                     |                | Date                 |                | Time              |                  | AVG Temp °C <u>4</u>  |     |      |  |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  |              |        |                   |                         |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA  |              |        |                   |                         |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |
| Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. |              |        |                   |                         |              |   |                 |   |              |                     |                |                      |                |                   |                  |   |     |      |  |

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envirotech

# Chain of Custody

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| Client Information  |              |        |                   | Invoice Information     |              |                   |                 | Lab Use Only                              |              |             |                | TAT                          |                |                   |                  | State   |     |      |  |
|---|--------------|--------|-------------------|-------------------------|--------------|-------------------|-----------------|---|--------------|-------------|----------------|------------------------------|----------------|-------------------|------------------|---|-----|------|--|
| Client: <u>Dugan</u>  |              |        |                   | Company: _____          |              |                   |                 | Lab WQ# <u>E50204</u>                     |              |             |                | Job Number <u>16094-0177</u> |                |                   |                  | 1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Std <input checked="" type="checkbox"/>   |     |      |  |
| Project Name: <u>Sanchez O'Brien</u>  |              |        |                   | Address: _____          |              |                   |                 |   |              |             |                |                              |                |                   |                  | NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> TX <input type="checkbox"/>  |     |      |  |
| Project Manager: _____  |              |        |                   | City, State, Zip: _____ |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Address: _____  |              |        |                   | Phone: _____            |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| City, State, Zip: _____   |              |        |                   | Email: _____            |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Phone: _____  |              |        |                   | Miscellaneous: _____    |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Email: _____  |              |        |                   |                         |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Sample Information  |              |        |                   |                         |              |                   |                 |   |              |             |                | Analysis and Method          |                |                   |                  | EPA Program   |     |      |  |
| Time Sampled  | Date Sampled | Matrix | No. of Containers | Sample ID               | Field Filter | Lab Number        | DRO/DRO by 8015 | GRO/DRO by 8015                           | BTES by 8021 | VOC by 8260 | Chloride 300.0 | SGDOC - NM                   | TEEQ 1000 - TX | RCMA 8 Metals     | Cation/Anion Pkg | SDWA  | CWA | RCRA |  |
| 10:00   | 1-28-75      | S      | 1                 | 51                      |              | 11                |                 |   |              |             |                | X                            |                |                   |                  |   |     |      |  |
|   |              |        |                   | 52                      |              | 12                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 53                      |              | 13                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 54                      |              | 14                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 55                      |              | 15                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 56                      |              | 16                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 57                      |              | 17                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 58                      |              | 18                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 59                      |              | 19                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
|   |              |        |                   | 60                      |              | 20                |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Additional Instructions:  |              |        |                   |                         |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  |              |        |                   |                         |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Sampled by: <u>Kevin Smalke</u>   |              |        |                   |                         |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Relinquished by: (Signature) <u>Kevin Smalke</u>  |              |        |                   | Date <u>1-28-75</u>     |              | Time <u>13:05</u> |                 | Received by: (Signature) <u>Carla Mae</u> |              |             |                | Date <u>1-28-75</u>          |                | Time <u>13:05</u> |                  | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on _____. |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time              |                 | Received by: (Signature)                  |              |             |                | Date                         |                | Time              |                  | Lab Use Only  |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time              |                 | Received by: (Signature)                  |              |             |                | Date                         |                | Time              |                  | Received on ice: <input checked="" type="checkbox"/> Y / N  |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time              |                 | Received by: (Signature)                  |              |             |                | Date                         |                | Time              |                  | T1 _____ T2 _____ T3 _____  |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time              |                 | Received by: (Signature)                  |              |             |                | Date                         |                | Time              |                  | AVG Temp °C <u>4</u>  |     |      |  |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____  |              |        |                   |                         |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____  |              |        |                   |                         |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |
| Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. |              |        |                   |                         |              |                   |                 |   |              |             |                |                              |                |                   |                  |   |     |      |  |

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envirotech

## Appendix E: Soil Analysis

## Envirotech Analytical Laboratory

Printed: 1/29/2025 10:34:29AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|         |                                 |                 |                            |                |              |
|---------|---------------------------------|-----------------|----------------------------|----------------|--------------|
| Client: | Dugan Production Corp.          | Date Received:  | 01/28/25 13:05             | Work Order ID: | E501204      |
| Phone:  | 505-486-6207                    | Date Logged In: | 01/28/25 14:02             | Logged In By:  | Caitlin Mars |
| Email:  | kevin.smaka@duganproduction.com | Due Date:       | 02/04/25 17:00 (5 day TAT) |                |              |

Chain of Custody (COC)

- |  |     |                             |
|--|-----|-----------------------------|
| 1. Does the sample ID match the COC?   | Yes |                             |
| 2. Does the number of samples per sampling site location match the COC?  | Yes |                             |
| 3. Were samples dropped off by client or carrier?  | Yes | Carrier: <u>Kevin Smaka</u> |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  | Yes |                             |
| 5. Were all samples received within holding time?  | Yes |                             |
| Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. |     |                             |

Sample Turn Around Time (TAT)

- |   |     |
|---|-----|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |
|---|-----|

Sample Cooler

- |  |     |
|--|-----|
| 7. Was a sample cooler received?   | Yes |
| 8. If yes, was cooler received in good condition?  | Yes |
| 9. Was the sample(s) received intact, i.e., not broken?  | Yes |
| 10. Were custody/security seals present?   | No  |
| 11. If yes, were custody/security seals intact?  | NA  |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C             | Yes |
| Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling |     |
| 13. If no visible ice, record the temperature. Actual sample temperature: 4°C                  |     |

Sample Container

- |  |     |
|--|-----|
| 14. Are aqueous VOC samples present?   | No  |
| 15. Are VOC samples collected in VOA Vials?                                    | NA  |
| 16. Is the head space less than 6-8 mm (pea sized or less)?                    | NA  |
| 17. Was a trip blank (TB) included for VOC analyses?                           | NA  |
| 18. Are non-VOC samples collected in the correct containers?                   | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

Field Label

- |   |     |
|---|-----|
| 20. Were field sample labels filled out with the minimum information: |     |
| Sample ID?  | Yes |
| Date/Time Collected?  | Yes |
| Collectors name?  | No  |

Sample Preservation

- |   |    |
|---|----|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved?                                | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

Multiphase Sample Matrix

- |  |    |
|--|----|
| 26. Does the sample have more than one phase, i.e., multiphase?    | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

Subcontract Laboratory

- |   |                        |
|---|------------------------|
| 28. Are samples required to get sent to a subcontract laboratory?       | No                     |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA Subcontract Lab: NA |

Client InstructionComments/Resolution

Project Sanchez O Brien has been separated into 4 reports due to high sample volume. WO are E501202 to E501205.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

## Appendix E: Soil Analysis

Figure D: Envirotech Analytical Report for Soil Samples E501205-01: E501205-24 (61-84)

Report to:  
Kevin Smaka



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



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*Practical Solutions for a Better Tomorrow*

## Analytical Report

Dugan Production Corp.

Project Name: Sanchez O'Brien

Work Order: E501205

Job Number: 06094-0177

Received: 1/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/4/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

## Appendix E: Soil Analysis

Date Reported: 2/4/25

Kevin Smaka  
PO Box 420  
Farmington, NM 87499



Project Name: Sanchez O'Brien  
Workorder: E501205  
Date Received: 1/28/2025 1:05:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/28/2025 1:05:00PM, under the Project Name: Sanchez O'Brien.

The analytical test results summarized in this report with the Project Name: Sanchez O'Brien apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



## Appendix E: Soil Analysis

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## Appendix E: Soil Analysis

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## Appendix E: Soil Analysis

## Sample Summary

|  |   |                             |
|--|---|-----------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>02/04/25 14:07 |
|--|---|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| 61               | E501205-01A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 62               | E501205-02A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 63               | E501205-03A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 64               | E501205-04A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 65               | E501205-05A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 66               | E501205-06A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 67               | E501205-07A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 68               | E501205-08A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 69               | E501205-09A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 70               | E501205-10A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 71               | E501205-11A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 72               | E501205-12A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 73               | E501205-13A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 74               | E501205-14A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 75               | E501205-15A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 76               | E501205-16A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 77               | E501205-17A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 78               | E501205-18A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 79               | E501205-19A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 80               | E501205-20A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 81               | E501205-21A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 82               | E501205-22A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 83               | E501205-23A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |
| 84               | E501205-24A   | Soil   | 01/28/25 | 01/28/25 | Glass Jar, 2 oz. |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-01

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 82.9 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 99.3 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 123 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-02

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 83.4 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 98.4 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 114 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-03

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 82.9 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 98.7 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 119 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-04

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 86.6 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 96.5 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 124 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-05

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 87.0 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 97.4 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 121 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-06

| Analyte   | Result | Reporting<br>Limit | Dilution    | Prepared | Analyzed | Notes          |
|---|--------|--------------------|-------------|----------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg              | Analyst: SL |          |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25 |                |
| Toluene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500             | 1           | 01/29/25 | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 82.3 % | 70-130             |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg              | Analyst: SL |          |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 100 %  | 70-130             |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg              | Analyst: AF |          |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1           | 01/29/25 | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 123 %  | 61-141             |             | 01/29/25 | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg              | Analyst: AK |          |          | Batch: 2505086 |
| Chloride  | ND     | 20.0               | 1           | 01/29/25 | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-07

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505072 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 87.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505072 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 96.9 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AF |          | Batch: 2505078 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 123 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505086 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-08

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505072 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |             |          |                |       |
|   | 88.1 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505072 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |             |          |                |       |
|   | 96.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AF |          | Batch: 2505078 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| <i>Surrogate: n-Nonane</i>                            |        |                 |             |          |                |       |
|   | 125 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505086 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-09

| Analyte   | Result | Reporting<br>Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|--------------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500             | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 88.7 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 96.6 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 121 %  | 61-141             |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0               | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-10

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 88.4 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 96.1 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 120 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-11

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 88.8 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 94.1 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 124 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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## E501205-12

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed | Notes          |
|---|--------|-----------------|-------------|----------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 90.2 % | 70-130          |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 95.6 % | 70-130          |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: AF |          |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 124 %  | 61-141          |             | 01/29/25 | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: AK |          |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-13

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 89.3 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 94.9 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 123 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-14

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatiles by EPA 8021B</b>                         |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   |        | 90.1 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               |        | 94.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   |        | 129 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-15

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   |        | 90.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   |        | 93.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   |        | 123 %           | 61-141   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-16

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505072 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 90.7 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505072 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 94.8 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AF |          | Batch: 2505078 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 122 %  | 61-141          |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505086 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-17

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed | Notes          |
|---|--------|-----------------|-------------|----------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |             |          |          |                |
|   | 90.7 % | 70-130          |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: SL |          |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |             |          |          |                |
|   | 94.2 % | 70-130          |             | 01/29/25 | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: AF |          |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/30/25 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |             |          |          |                |
|   | 121 %  | 61-141          |             | 01/29/25 | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |          |                |
|   | mg/kg  | mg/kg           | Analyst: AK |          |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-18

| Analyte   | Result | Reporting<br>Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|--------------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505072 |       |
| Benzene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500             | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250             | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 90.3 % | 70-130             |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: SL |          | Batch: 2505072 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 93.3 % | 70-130             |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: AF |          | Batch: 2505078 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1           | 01/29/25 | 01/30/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: n-Nonane                                   | 122 %  | 61-141             |             | 01/29/25 | 01/30/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                    |             |          |                |       |
|   | mg/kg  | mg/kg              | Analyst: AK |          | Batch: 2505086 |       |
| Chloride  | ND     | 20.0               | 1           | 01/29/25 | 01/30/25       |       |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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## E501205-19

| Analyte   | Result | Reporting<br>Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|--------------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500             | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250             | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 89.8 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 93.4 % | 70-130             |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0               | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0               | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 123 %  | 61-141             |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                    |          |             |          |                |
|   | mg/kg  | mg/kg              |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0               | 1        | 01/29/25    | 01/30/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                    |
|------------------------|------------------|-----------------|--------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                    |
| PO Box 420             | Project Number:  | 06094-0177      | <b>Reported:</b>   |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/4/2025 2:07:27PM |

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E501205-20

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 4-Bromochlorobenzene-PID                   | 90.0 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505072 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 93.6 % | 70-130          |          | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AF |          | Batch: 2505078 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   | 127 %  | 61-141          |          | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505086 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-21

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505073 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 97.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 97.0 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505073 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 97.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 97.0 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505079 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 131 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505082 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-22

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505073 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 96.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 96.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505073 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 96.8 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 96.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505079 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/29/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/29/25 |                |
| Surrogate: n-Nonane                                   |        | 116 %           | 50-200   | 01/29/25    | 01/29/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505082 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## Sample Data

|                        |                  |                 |                    |
|------------------------|------------------|-----------------|--------------------|
| Dugan Production Corp. | Project Name:    | Sanchez O'Brien |                    |
| PO Box 420             | Project Number:  | 06094-0177      | <b>Reported:</b>   |
| Farmington NM, 87499   | Project Manager: | Kevin Smaka     | 2/4/2025 2:07:27PM |

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E501205-23

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505073 |       |
| Benzene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Toluene   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 01/29/25 | 01/30/25       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 96.9 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 96.8 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: SL |          | Batch: 2505073 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 01/29/25 | 01/30/25       |       |
| Surrogate: Bromofluorobenzene                         | 97.4 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: 1,2-Dichloroethane-d4                      | 96.9 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| Surrogate: Toluene-d8                                 | 96.8 % | 70-130          |             | 01/29/25 | 01/30/25       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: NV |          | Batch: 2505079 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 01/29/25 | 01/29/25       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 01/29/25 | 01/29/25       |       |
| Surrogate: n-Nonane                                   | 119 %  | 50-200          |             | 01/29/25 | 01/29/25       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: AK |          | Batch: 2505082 |       |
| Chloride  | ND     | 20.0            | 1           | 01/29/25 | 01/29/25       |       |



## Appendix E: Soil Analysis

## Sample Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

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E501205-24

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organic Compounds by EPA 8260B</b>        |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505073 |
| Benzene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Toluene   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 01/29/25    | 01/30/25 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 93.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 97.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: SL |          | Batch: 2505073 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: Bromofluorobenzene                         |        | 97.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: 1,2-Dichloroethane-d4                      |        | 93.5 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| Surrogate: Toluene-d8                                 |        | 97.3 %          | 70-130   | 01/29/25    | 01/30/25 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: NV |          | Batch: 2505079 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 01/29/25    | 01/30/25 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 01/29/25    | 01/30/25 |                |
| Surrogate: n-Nonane                                   |        | 122 %           | 50-200   | 01/29/25    | 01/30/25 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: AK |          | Batch: 2505082 |
| Chloride  | ND     | 20.0            | 1        | 01/29/25    | 01/29/25 |                |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505073-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |        |       |  |      |        |  |  |  |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene                          | ND    | 0.0250 |       |  |      |        |  |  |  |
| Ethylbenzene                     | ND    | 0.0250 |       |  |      |        |  |  |  |
| Toluene                          | ND    | 0.0250 |       |  |      |        |  |  |  |
| o-Xylene                         | ND    | 0.0250 |       |  |      |        |  |  |  |
| p,m-Xylene                       | ND    | 0.0500 |       |  |      |        |  |  |  |
| Total Xylenes                    | ND    | 0.0250 |       |  |      |        |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.482 |        | 0.500 |  | 96.3 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.488 |        | 0.500 |  | 97.5 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.480 |        | 0.500 |  | 95.9 | 70-130 |  |  |  |

## LCS (2505073-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |        |       |  |      |        |  |  |  |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene                          | 2.66  | 0.0250 | 2.50  |  | 106  | 70-130 |  |  |  |
| Ethylbenzene                     | 2.58  | 0.0250 | 2.50  |  | 103  | 70-130 |  |  |  |
| Toluene                          | 2.55  | 0.0250 | 2.50  |  | 102  | 70-130 |  |  |  |
| o-Xylene                         | 2.53  | 0.0250 | 2.50  |  | 101  | 70-130 |  |  |  |
| p,m-Xylene                       | 5.04  | 0.0500 | 5.00  |  | 101  | 70-130 |  |  |  |
| Total Xylenes                    | 7.57  | 0.0250 | 7.50  |  | 101  | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.481 |        | 0.500 |  | 96.2 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.501 |        | 0.500 |  | 100  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.472 |        | 0.500 |  | 94.3 | 70-130 |  |  |  |

## Matrix Spike (2505073-MS1)

Source: E501205-23

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |        |       |    |      |        |  |  |  |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene                          | 2.56  | 0.0250 | 2.50  | ND | 103  | 48-131 |  |  |  |
| Ethylbenzene                     | 2.55  | 0.0250 | 2.50  | ND | 102  | 45-135 |  |  |  |
| Toluene                          | 2.54  | 0.0250 | 2.50  | ND | 102  | 48-130 |  |  |  |
| o-Xylene                         | 2.51  | 0.0250 | 2.50  | ND | 100  | 43-135 |  |  |  |
| p,m-Xylene                       | 5.04  | 0.0500 | 5.00  | ND | 101  | 43-135 |  |  |  |
| Total Xylenes                    | 7.55  | 0.0250 | 7.50  | ND | 101  | 43-135 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.478 |        | 0.500 |    | 95.6 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.476 |        | 0.500 |    | 95.1 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.481 |        | 0.500 |    | 96.1 | 70-130 |  |  |  |

## Matrix Spike Dup (2505073-MSD1)

Source: E501205-23

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |        |       |    |      |        |       |    |  |
|----------------------------------|-------|--------|-------|----|------|--------|-------|----|--|
| Benzene                          | 2.56  | 0.0250 | 2.50  | ND | 102  | 48-131 | 0.156 | 23 |  |
| Ethylbenzene                     | 2.49  | 0.0250 | 2.50  | ND | 99.4 | 45-135 | 2.58  | 27 |  |
| Toluene                          | 2.46  | 0.0250 | 2.50  | ND | 98.5 | 48-130 | 3.02  | 24 |  |
| o-Xylene                         | 2.49  | 0.0250 | 2.50  | ND | 99.6 | 43-135 | 0.800 | 27 |  |
| p,m-Xylene                       | 5.01  | 0.0500 | 5.00  | ND | 100  | 43-135 | 0.667 | 27 |  |
| Total Xylenes                    | 7.50  | 0.0250 | 7.50  | ND | 100  | 43-135 | 0.711 | 27 |  |
| Surrogate: Bromofluorobenzene    | 0.491 |        | 0.500 |    | 98.1 | 70-130 |       |    |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.475 |        | 0.500 |    | 95.0 | 70-130 |       |    |  |
| Surrogate: Toluene-d8            | 0.474 |        | 0.500 |    | 94.7 | 70-130 |       |    |  |



## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505072-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| Ethylbenzene                        | ND   | 0.0250 |      |  |      |        |  |  |  |
| Toluene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| o-Xylene                            | ND   | 0.0250 |      |  |      |        |  |  |  |
| p,m-Xylene                          | ND   | 0.0500 |      |  |      |        |  |  |  |
| Total Xylenes                       | ND   | 0.0250 |      |  |      |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.64 |        | 8.00 |  | 83.0 | 70-130 |  |  |  |

## LCS (2505072-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | 4.98 | 0.0250 | 5.00 |  | 99.6 | 70-130 |  |  |  |
| Ethylbenzene                        | 4.74 | 0.0250 | 5.00 |  | 94.7 | 70-130 |  |  |  |
| Toluene                             | 4.88 | 0.0250 | 5.00 |  | 97.7 | 70-130 |  |  |  |
| o-Xylene                            | 4.70 | 0.0250 | 5.00 |  | 94.1 | 70-130 |  |  |  |
| p,m-Xylene                          | 9.59 | 0.0500 | 10.0 |  | 95.9 | 70-130 |  |  |  |
| Total Xylenes                       | 14.3 | 0.0250 | 15.0 |  | 95.3 | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.57 |        | 8.00 |  | 82.1 | 70-130 |  |  |  |

## Matrix Spike (2505072-MS1)

Source: E501205-06

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |    |      |        |  |  |  |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene                             | 4.89 | 0.0250 | 5.00 | ND | 97.8 | 54-133 |  |  |  |
| Ethylbenzene                        | 4.61 | 0.0250 | 5.00 | ND | 92.2 | 61-133 |  |  |  |
| Toluene                             | 4.77 | 0.0250 | 5.00 | ND | 95.5 | 61-130 |  |  |  |
| o-Xylene                            | 4.58 | 0.0250 | 5.00 | ND | 91.6 | 63-131 |  |  |  |
| p,m-Xylene                          | 9.33 | 0.0500 | 10.0 | ND | 93.3 | 63-131 |  |  |  |
| Total Xylenes                       | 13.9 | 0.0250 | 15.0 | ND | 92.7 | 63-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.54 |        | 8.00 |    | 81.8 | 70-130 |  |  |  |

## Matrix Spike Dup (2505072-MSD1)

Source: E501205-06

Prepared: 01/29/25 Analyzed: 01/30/25

|                                     |      |        |      |    |      |        |      |    |  |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene                             | 5.17 | 0.0250 | 5.00 | ND | 103  | 54-133 | 5.50 | 20 |  |
| Ethylbenzene                        | 4.89 | 0.0250 | 5.00 | ND | 97.9 | 61-133 | 5.99 | 20 |  |
| Toluene                             | 5.06 | 0.0250 | 5.00 | ND | 101  | 61-130 | 5.77 | 20 |  |
| o-Xylene                            | 4.88 | 0.0250 | 5.00 | ND | 97.5 | 63-131 | 6.29 | 20 |  |
| p,m-Xylene                          | 9.90 | 0.0500 | 10.0 | ND | 99.0 | 63-131 | 5.97 | 20 |  |
| Total Xylenes                       | 14.8 | 0.0250 | 15.0 | ND | 98.5 | 63-131 | 6.08 | 20 |  |
| Surrogate: 4-Bromochlorobenzene-PID | 6.52 |        | 8.00 |    | 81.4 | 70-130 |      |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505072-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

Gasoline Range Organics (C6-C10)

ND

20.0

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.91

8.00

98.9

70-130

## LCS (2505072-BS2)

Prepared: 01/29/25 Analyzed: 01/30/25

Gasoline Range Organics (C6-C10)

39.2

20.0

50.0

78.4

70-130

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.91

8.00

98.9

70-130

## Matrix Spike (2505072-MS2)

Source: E501205-06

Prepared: 01/29/25 Analyzed: 01/30/25

Gasoline Range Organics (C6-C10)

42.1

20.0

50.0

ND

84.2

70-130

Surrogate: 1-Chloro-4-fluorobenzene-FID

8.02

8.00

100

70-130

## Matrix Spike Dup (2505072-MSD2)

Source: E501205-06

Prepared: 01/29/25 Analyzed: 01/30/25

Gasoline Range Organics (C6-C10)

40.7

20.0

50.0

ND

81.3

70-130

3.46

20

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.97

8.00

99.7

70-130

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505073-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |      |       |  |      |        |  |  |  |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND    | 20.0 |       |  |      |        |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.482 |      | 0.500 |  | 96.3 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.488 |      | 0.500 |  | 97.5 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.480 |      | 0.500 |  | 95.9 | 70-130 |  |  |  |

## LCS (2505073-BS2)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |      |       |  |      |        |  |  |  |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 56.0  | 20.0 | 50.0  |  | 112  | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.473 |      | 0.500 |  | 94.5 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.487 |      | 0.500 |  | 97.4 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.491 |      | 0.500 |  | 98.2 | 70-130 |  |  |  |

## Matrix Spike (2505073-MS2)

Source: E501205-23

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |      |       |    |      |        |  |  |  |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 56.6  | 20.0 | 50.0  | ND | 113  | 70-130 |  |  |  |
| Surrogate: Bromofluorobenzene    | 0.485 |      | 0.500 |    | 96.9 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.483 |      | 0.500 |    | 96.6 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.485 |      | 0.500 |    | 97.0 | 70-130 |  |  |  |

## Matrix Spike Dup (2505073-MSD2)

Source: E501205-23

Prepared: 01/29/25 Analyzed: 01/30/25

|                                  |       |      |       |    |      |        |      |    |  |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 54.7  | 20.0 | 50.0  | ND | 109  | 70-130 | 3.56 | 20 |  |
| Surrogate: Bromofluorobenzene    | 0.490 |      | 0.500 |    | 97.9 | 70-130 |      |    |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.470 |      | 0.500 |    | 94.0 | 70-130 |      |    |  |
| Surrogate: Toluene-d8            | 0.485 |      | 0.500 |    | 96.9 | 70-130 |      |    |  |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505078-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |     |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |     |        |  |  |  |
| Surrogate: n-Nonane             | 61.4 |      | 50.0 |  | 123 | 61-141 |  |  |  |

## LCS (2505078-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 289  | 25.0 | 250  |  | 115 | 66-144 |  |  |  |
| Surrogate: n-Nonane             | 57.3 |      | 50.0 |  | 115 | 61-141 |  |  |  |

## Matrix Spike (2505078-MS1)

Source: E501205-12

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |    |     |        |  |  |  |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 309  | 25.0 | 250  | ND | 124 | 56-156 |  |  |  |
| Surrogate: n-Nonane             | 61.3 |      | 50.0 |    | 123 | 61-141 |  |  |  |

## Matrix Spike Dup (2505078-MSD1)

Source: E501205-12

Prepared: 01/29/25 Analyzed: 01/30/25

|                                 |      |      |      |    |     |        |      |    |  |
|---------------------------------|------|------|------|----|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 314  | 25.0 | 250  | ND | 125 | 56-156 | 1.37 | 20 |  |
| Surrogate: n-Nonane             | 61.1 |      | 50.0 |    | 122 | 61-141 |      |    |  |





## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

## Blank (2505079-BLK1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |     |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |     |        |  |  |  |
| Surrogate: n-Nonane             | 63.5 |      | 50.0 |  | 127 | 50-200 |  |  |  |

## LCS (2505079-BS1)

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 273  | 25.0 | 250  |  | 109 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 58.7 |      | 50.0 |  | 117 | 50-200 |  |  |  |

## Matrix Spike (2505079-MS1)

Source: E501209-02

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |    |     |        |  |  |  |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 307  | 25.0 | 250  | ND | 123 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 69.4 |      | 50.0 |    | 139 | 50-200 |  |  |  |

## Matrix Spike Dup (2505079-MSD1)

Source: E501209-02

Prepared: 01/29/25 Analyzed: 01/29/25

|                                 |      |      |      |    |     |        |      |    |    |
|---------------------------------|------|------|------|----|-----|--------|------|----|----|
| Diesel Range Organics (C10-C28) | 350  | 25.0 | 250  | ND | 140 | 38-132 | 13.1 | 20 | M4 |
| Surrogate: n-Nonane             | 69.2 |      | 50.0 |    | 138 | 50-200 |      |    |    |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Anions by EPA 300.0/9056A

Analyst: AK

| Analyte                                | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes   |
|--|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|---|
| <b>Blank (2505082-BLK1)</b>            |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | ND              | 20.0                        |                         |                           |          |                    |          |                   | Prepared: 01/29/25 Analyzed: 01/29/25                       |
| <b>LCS (2505082-BS1)</b>               |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | 252             | 20.0                        | 250                     |                           | 101      | 90-110             |          |                   | Prepared: 01/29/25 Analyzed: 01/29/25                       |
| <b>Matrix Spike (2505082-MS1)</b>      |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | 1360            | 20.0                        | 250                     | 1170                      | 73.9     | 80-120             |          |                   | Source: E501201-01 Prepared: 01/29/25 Analyzed: 01/29/25 M4 |
| <b>Matrix Spike Dup (2505082-MSD1)</b> |                 |                             |                         |                           |          |                    |          |                   |   |
| Chloride                               | 1420            | 20.0                        | 250                     | 1170                      | 99.9     | 80-120             | 4.68     | 20                | Source: E501201-01 Prepared: 01/29/25 Analyzed: 01/29/25    |

## Appendix E: Soil Analysis

## QC Summary Data

|  |   |                                 |
|--|---|---------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | Reported:<br>2/4/2025 2:07:27PM |
|--|---|---------------------------------|

## Anions by EPA 300.0/9056A

Analyst: AK

| Analyte                                | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>% | RPD<br>Limit<br>% | Notes  |
|--|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|--|
| <b>Blank (2505086-BLK1)</b>            |                 |                             |                         |                           |          |                    |          |                   |  |
| Chloride                               | ND              | 20.0                        |                         |                           |          |                    |          |                   | Prepared: 01/29/25 Analyzed: 01/29/25                    |
| <b>LCS (2505086-BS1)</b>               |                 |                             |                         |                           |          |                    |          |                   |  |
| Chloride                               | 249             | 20.0                        | 250                     |                           | 99.5     | 90-110             |          |                   | Prepared: 01/29/25 Analyzed: 01/29/25                    |
| <b>Matrix Spike (2505086-MS1)</b>      |                 |                             |                         |                           |          |                    |          |                   |  |
| Chloride                               | 250             | 20.0                        | 250                     | ND                        | 100      | 80-120             |          |                   | Source: E501205-05 Prepared: 01/29/25 Analyzed: 01/29/25 |
| <b>Matrix Spike Dup (2505086-MSD1)</b> |                 |                             |                         |                           |          |                    |          |                   |  |
| Chloride                               | 249             | 20.0                        | 250                     | ND                        | 99.8     | 80-120             | 0.255    | 20                | Source: E501205-05 Prepared: 01/29/25 Analyzed: 01/29/25 |

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**Appendix E: Soil Analysis****Definitions and Notes**

|  |   |                                    |
|--|---|------------------------------------|
| Dugan Production Corp.<br>PO Box 420<br>Farmington NM, 87499 | Project Name: Sanchez O'Brien<br>Project Number: 06094-0177<br>Project Manager: Kevin Smaka | <b>Reported:</b><br>02/04/25 14:07 |
|--|---|------------------------------------|

|     |  |
|-----|--|
| M4  | Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable. |
| ND  | Analyte NOT DETECTED at or above the reporting limit   |
| NR  | Not Reported   |
| RPD | Relative Percent Difference  |
| DNI | Did Not Ignite   |
| DNR | Did not react with the addition of acid or base.   |

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Appendix E: Soil Analysis

Chain of Custody

| Client Information  |              |        |                   | Invoice Information     |              |                   |                 | Lab Use Only                                |              |             |                | TAT                         |                |                   |                  | State  |     |      |  |
|---|--------------|--------|-------------------|-------------------------|--------------|-------------------|-----------------|---|--------------|-------------|----------------|-----------------------------|----------------|-------------------|------------------|--|-----|------|--|
| Client: <u>Dusen</u>  |              |        |                   | Company: _____          |              |                   |                 | Lab WO# <u>E501205</u>                      |              |             |                | Job Number <u>060944017</u> |                |                   |                  | 1D 2D 3D Std <input checked="" type="checkbox"/>   |     |      |  |
| Project Name: <u>Sanchez Obrien</u>   |              |        |                   | Address: _____          |              |                   |                 |   |              |             |                |                             |                |                   |                  | NM CO UT TX <input checked="" type="checkbox"/>  |     |      |  |
| Project Manager: _____  |              |        |                   | City, State, Zip: _____ |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Address: _____  |              |        |                   | Phone: _____            |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| City, State, Zip: _____   |              |        |                   | Email: _____            |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Phone: _____  |              |        |                   | Miscellaneous: _____    |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Email: _____  |              |        |                   |                         |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Sample Information  |              |        |                   |                         |              |                   |                 |   |              |             |                | Analysis and Method         |                |                   |                  | EPA Program  |     |      |  |
| Time Sampled  | Date Sampled | Matrix | No. of Containers | Sample ID               | Field Filter | Lab Number        | DRO/ORO by 8015 | GRO/ORO by 8015                             | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | SGDOC - NM                  | TCOQ 1005 - TX | RCRA 8 Metals     | Cation/Anion Pkg | SDWA   | CWA | RCRA |  |
| 10:00   | 1-28-25      | S      | 1                 | 61                      |              | 1                 |                 |   |              |             |                |                             | X              |                   |                  |  |     |      |  |
|   |              |        |                   | 62                      |              | 2                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 63                      |              | 3                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 64                      |              | 4                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 65                      |              | 5                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 66                      |              | 6                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 67                      |              | 7                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 68                      |              | 8                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 69                      |              | 9                 |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
|   |              |        |                   | 70                      |              | 10                |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Additional Instructions:  |              |        |                   |                         |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  |              |        |                   |                         |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Sampled by: <u>Kenn Sparks</u>  |              |        |                   |                         |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Relinquished by: (Signature) <u>[Signature]</u>   |              |        |                   | Date <u>1-28-25</u>     |              | Time <u>13:05</u> |                 | Received by: (Signature) <u>[Signature]</u> |              |             |                | Date <u>1-28-25</u>         |                | Time <u>13:05</u> |                  | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on _____ |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time              |                 | Received by: (Signature)                    |              |             |                | Date                        |                | Time              |                  | Lab Use Only<br>Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time              |                 | Received by: (Signature)                    |              |             |                | Date                        |                | Time              |                  | T1 _____ T2 _____ T3 _____   |     |      |  |
| Relinquished by: (Signature)  |              |        |                   | Date                    |              | Time              |                 | Received by: (Signature)                    |              |             |                | Date                        |                | Time              |                  | AVG Temp °C <u>4</u>   |     |      |  |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  |              |        |                   |                         |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA  |              |        |                   |                         |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |
| Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. |              |        |                   |                         |              |                   |                 |   |              |             |                |                             |                |                   |                  |  |     |      |  |



Chain of Custody

| Client Information  |              |                     |                   | Invoice Information     |              | Lab Use Only                                     |                 | TAT  |              | State   |                |  |               |               |                  |      |     |      |            |        |         |         |
|---|--------------|---------------------|-------------------|-------------------------|--------------|--|-----------------|--|--------------|---|----------------|--|---------------|---------------|------------------|------|-----|------|------------|--------|---------|---------|
| Client: <u>9.17.20</u>  |              |                     |                   | Company: _____          |              | Lab WO# <u>E50205</u> Job Number <u>6094-011</u> |                 | 1D 2D 3D Std <input checked="" type="checkbox"/> |              | NM CO UT TX <input checked="" type="checkbox"/> |                |  |               |               |                  |      |     |      |            |        |         |         |
| Project Name: <u>Sanchez o'brien</u>  |              |                     |                   | Address: _____          |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Project Manager: _____  |              |                     |                   | City, State, Zip: _____ |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Address: _____  |              |                     |                   | Phone: _____            |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| City, State, Zip: _____   |              |                     |                   | Email: _____            |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Phone: _____  |              |                     |                   | Miscellaneous: _____    |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Email: _____  |              |                     |                   |                         |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Sample Information  |              |                     |                   |                         |              |  |                 |  |              | EPA Program                                     |                |  |               |               |                  |      |     |      |            |        |         |         |
| Time Sampled  | Date Sampled | Matrix              | No. of Containers | Sample ID               | Field Filter | Lab Number                                       | DRO/DRO by 8015 | GRO/DRO by 8015                                  | BTEX by 8021 | VOC by 8260                                     | Chloride 300.0 | 8600C - NM   | TEG 1005 - TX | RCRA 8 Metals | Cation/Anion Pkg | SDWA | CWA | RCRA | Compliance | Y or N | PWSID # | Remarks |
| 10:00   | 1-28-25      | S                   | 1                 | 71                      |              | 11   |                 |  |              |   |                | X  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 72                      |              | 12   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 73                      |              | 13   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 74                      |              | 14   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 75                      |              | 15   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 76                      |              | 16   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 77                      |              | 17   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 78                      |              | 18   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 79                      |              | 19   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
|   |              |                     |                   | 80                      |              | 20   |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Additional Instructions:  |              |                     |                   |                         |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  |              |                     |                   |                         |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Sampled by: <u>Kevin Smaka</u>  |              |                     |                   |                         |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |
| Relinquished by: (Signature) <u>[Signature]</u>   |              | Date <u>1-28-25</u> |                   | Time <u>13:05</u>       |              | Received by: (Signature) <u>[Signature]</u>      |                 | Date <u>1-28-25</u>                              |              | Time <u>13:05</u>                               |                | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on _____ |               |               |                  |      |     |      |            |        |         |         |
| Relinquished by: (Signature)  |              | Date                |                   | Time                    |              | Received by: (Signature)                         |                 | Date   |              | Time  |                | Lab Use Only<br>Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N  |               |               |                  |      |     |      |            |        |         |         |
| Relinquished by: (Signature)  |              | Date                |                   | Time                    |              | Received by: (Signature)                         |                 | Date   |              | Time  |                | T1 _____ T2 _____ T3 _____   |               |               |                  |      |     |      |            |        |         |         |
| Relinquished by: (Signature)  |              | Date                |                   | Time                    |              | Received by: (Signature)                         |                 | Date   |              | Time  |                | AVG Temp °C <u>4</u>   |               |               |                  |      |     |      |            |        |         |         |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  |              |                     |                   |                         |              |  |                 |  |              |   |                | Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   |               |               |                  |      |     |      |            |        |         |         |
| Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. |              |                     |                   |                         |              |  |                 |  |              |   |                |  |               |               |                  |      |     |      |            |        |         |         |





### Chain of Custody

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[illegible]

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**envirotech**

## Appendix E: Soil Analysis

## Envirotech Analytical Laboratory

Printed: 1/29/2025 9:48:34AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|         |                                 |                 |                            |                |              |
|---------|---------------------------------|-----------------|----------------------------|----------------|--------------|
| Client: | Dugan Production Corp.          | Date Received:  | 01/28/25 13:05             | Work Order ID: | E501205      |
| Phone:  | 505-486-6207                    | Date Logged In: | 01/28/25 14:10             | Logged In By:  | Caitlin Mars |
| Email:  | kevin.smaka@duganproduction.com | Due Date:       | 02/04/25 17:00 (5 day TAT) |                |              |

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Kevin Smaka

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6"±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Project Sanchez O Brien has been separated into 4 reports due to high sample volume. WO are E501202 to E501205.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 431279

**QUESTIONS**

|  |  |
|--|--|
| Operator:<br>DUGAN PRODUCTION CORP<br>PO Box 420<br>Farmington, NM 87499 | OGRID:<br>6515   |
|  | Action Number:<br>431279   |
|  | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAPP2318737964                                   |
| Incident Name        | NAPP2318737964 SANCHEZ O'BRIEN #1 @ 30-045-25298 |
| Incident Type        | Produced Water Release                           |
| Incident Status      | Reclamation Report Received                      |
| Incident Well        | [30-045-25298] SANCHEZ-O'BRIEN #001              |

**Location of Release Source**

Please answer all the questions in this group.

|                         |                    |
|-------------------------|--------------------|
| Site Name               | SANCHEZ O'BRIEN #1 |
| Date Release Discovered | 07/03/2023         |
| Surface Owner           | Federal            |

**Incident Details**

Please answer all the questions in this group.

|  |                        |
|--|------------------------|
| Incident Type  | Produced Water Release |
| Did this release result in a fire or is the result of a fire   | No                     |
| Did this release result in any injuries  | No                     |
| Has this release reached or does it have a reasonable probability of reaching a watercourse          | No                     |
| Has this release endangered or does it have a reasonable probability of endangering public health    | No                     |
| Has this release substantially damaged or will it substantially damage property or the environment   | No                     |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No                     |

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

|  |   |
|--|---|
| Crude Oil Released (bbls) Details  | Not answered.   |
| Produced Water Released (bbls) Details   | Cause: Equipment Failure   Injection Well   Produced Water   Released: 60 BBL   Recovered: 25 BBL   Lost: 35 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l  | Yes   |
| Condensate Released (bbls) Details   | Not answered.   |
| Natural Gas Vented (Mcf) Details   | Not answered.   |
| Natural Gas Flared (Mcf) Details   | Not answered.   |
| Other Released Details   | Not answered.   |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered.   |

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QUESTIONS, Page 2

Action 431279

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>DUGAN PRODUCTION CORP<br>PO Box 420<br>Farmington, NM 87499 | OGRID:<br>6515   |
|  | Action Number:<br>431279   |
|  | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| <b>Nature and Volume of Release (continued)</b>  |  |
|--|--|
| Is this a gas only submission (i.e. only significant Mcf values reported)  | <b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>   |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC   | <b>Yes</b>   |
| Reasons why this would be considered a submission for a notification of a major release  | <b>From paragraph A. "Major release" determine using:<br/>(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b> |
| <i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i> |  |

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

|  |                      |
|--|----------------------|
| The source of the release has been stopped   | <b>True</b>          |
| The impacted area has been secured to protect human health and the environment                                     | <b>True</b>          |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | <b>True</b>          |
| All free liquids and recoverable materials have been removed and managed appropriately                             | <b>True</b>          |
| If all the actions described above have not been undertaken, explain why   | <b>Not answered.</b> |

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|  |   |
|--|---|
| I hereby agree and sign off to the above statement | Name: Tyra Feil<br>Title: ENGINEERING ASSISTANT<br>Email: Tyra.Feil@duganproduction.com<br>Date: 02/12/2025 |
|--|---|

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Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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QUESTIONS, Page 3

Action 431279

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>DUGAN PRODUCTION CORP<br>PO Box 420<br>Farmington, NM 87499 | OGRID:<br>6515   |
|  | Action Number:<br>431279   |
|  | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

|  |                                      |
|--|--------------------------------------|
| <b>Site Characterization</b>   |                                      |
| <i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i> |                                      |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)   | Between 500 and 1000 (ft.)           |
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search       |
| Did this release impact groundwater or surface water   | No                                   |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                      |
| A continuously flowing watercourse or any other significant watercourse  | Zero feet, overlying, or within area |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Between 1000 (ft.) and ½ (mi.)       |
| An occupied permanent residence, school, hospital, institution, or church  | Between 1000 (ft.) and ½ (mi.)       |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between ½ and 1 (mi.)                |
| Any other fresh water well or spring   | Between ½ and 1 (mi.)                |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)                 |
| A wetland  | Between 200 and 300 (ft.)            |
| A subsurface mine  | Greater than 5 (mi.)                 |
| An (non-karst) unstable area   | Greater than 5 (mi.)                 |
| Categorize the risk of this well / site being in a karst geology   | None                                 |
| A 100-year floodplain  | Between 1 and 5 (mi.)                |
| Did the release impact areas not on an exploration, development, production, or storage site   | No                                   |

|   |            |
|---|------------|
| <b>Remediation Plan</b>   |            |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>  |            |
| Requesting a remediation plan approval with this submission   | Yes        |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>  |            |
| Have the lateral and vertical extents of contamination been fully delineated  | Yes        |
| Was this release entirely contained within a lined containment area   | No         |
| <b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)   |            |
| Chloride (EPA 300.0 or SM4500 Cl B)   | 0          |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)   | 35.4       |
| GRO+DRO (EPA SW-846 Method 8015M)   | 35.4       |
| BTEX (EPA SW-846 Method 8021B or 8260B)   | 0          |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0          |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>  |            |
| On what estimated date will the remediation commence  | 07/03/2023 |
| On what date will (or did) the final sampling or liner inspection occur   | 01/28/2025 |
| On what date will (or was) the remediation complete(d)  | 07/10/2023 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 0          |
| What is the estimated volume (in cubic yards) that will be reclaimed  | 0          |
| What is the estimated surface area (in square feet) that will be remediated   | 17411      |
| What is the estimated volume (in cubic yards) that will be remediated   | 54         |
| <i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>  |            |
| <i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i> |            |

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QUESTIONS, Page 4

Action 431279

**QUESTIONS (continued)**

|  |  |
|--|--|
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|  | Action Number:<br>431279   |
|  | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

|  |   |
|--|---|
| <b>Remediation Plan (continued)</b>  |   |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>   |   |
| <b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>   |   |
| <i>(Select all answers below that apply.)</i>  |   |
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)  | No  |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)  | No  |
| (In Situ) Soil Vapor Extraction  | No  |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)  | No  |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)   | No  |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)   | Yes   |
| Ground Water Abatement pursuant to 19.15.30 NMAC   | No  |
| OTHER (Non-listed remedial process)  | Not answered.   |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>   |   |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |   |
| I hereby agree and sign off to the above statement   | Name: Tyra Feil<br>Title: ENGINEERING ASSISTANT<br>Email: Tyra.Feil@duganproduction.com<br>Date: 02/12/2025 |
| <i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>  |   |



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QUESTIONS, Page 5  
  
Action 431279

QUESTIONS (continued)

|  |  |
|--|--|
| Operator:<br><br>DUGAN PRODUCTION CORP<br>PO Box 420<br>Farmington, NM 87499 | OGRID:<br><br>6515   |
|  | Action Number:<br><br>431279   |
|  | Action Type:<br><br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

QUESTIONS

|  |    |
|--|----|
| Deferral Requests Only   |    |
| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. |    |
| Requesting a deferral of the remediation closure due date with the approval of this submission   | No |

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QUESTIONS, Page 6

Action 431279

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>DUGAN PRODUCTION CORP<br>PO Box 420<br>Farmington, NM 87499 | OGRID:<br>6515   |
|  | Action Number:<br>431279   |
|  | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 424612     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/28/2025 |
| What was the (estimated) number of samples that were to be gathered                             | 84         |
| What was the sampling surface area in square feet   | 17326      |

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

|  |   |
|--|---|
| Requesting a remediation closure approval with this submission   | Yes   |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes   |
| Was this release entirely contained within a lined containment area  | No  |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion   | Yes   |
| What was the total surface area (in square feet) remediated  | 17411                                       |
| What was the total volume (cubic yards) remediated   | 54  |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes   |
| What was the total surface area (in square feet) reclaimed   | 0   |
| What was the total volume (in cubic yards) reclaimed   | 0   |
| Summarize any additional remediation activities not included by answers (above)  | All information included in Closure Report. |

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

|  |   |
|--|---|
| I hereby agree and sign off to the above statement | Name: Tyra Feil<br>Title: ENGINEERING ASSISTANT<br>Email: Tyra.Feil@duganproduction.com<br>Date: 02/12/2025 |
|--|---|

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QUESTIONS, Page 7

Action 431279

**QUESTIONS (continued)**

|  |  |
|--|--|
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|  | Action Number:<br>431279   |
|  | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

|  |   |
|--|---|
| <b>Reclamation Report</b>  |   |
| <i>Only answer the questions in this group if all reclamation steps have been completed.</i>   |   |
| Requesting a reclamation approval with this submission   | Yes   |
| What was the total reclamation surface area (in square feet) for this site   | 0   |
| What was the total volume of replacement material (in cubic yards) for this site   | 0   |
| <i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>  |   |
| Is the soil top layer complete and is it suitable material to establish vegetation   | Yes   |
| On what (estimated) date will (or was) the reseeded commence(d)  | 07/03/2023  |
| Summarize any additional reclamation activities not included by answers (above)  | All information included in Closure Report.   |
| <i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>  |   |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. |   |
| I hereby agree and sign off to the above statement   | Name: Tyra Feil<br>Title: ENGINEERING ASSISTANT<br>Email: Tyra.Feil@duganproduction.com<br>Date: 02/12/2025 |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

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QUESTIONS (continued)

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|--|--|
| Operator:<br><br>DUGAN PRODUCTION CORP<br>PO Box 420<br>Farmington, NM 87499 | OGRID:<br><br>6515   |
|  | Action Number:<br><br>431279   |
|  | Action Type:<br><br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

QUESTIONS

|   |    |
|---|----|
| <b>Revegetation Report</b>  |    |
| <i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>   |    |
| Requesting a restoration complete approval with this submission   | No |
| <i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i> |    |

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1220 S. St Francis Dr.  
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CONDITIONS

Action 431279

CONDITIONS

|  |  |
|--|--|
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CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| nvez       | None      | 5/29/2025      |