

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

Operator:	Dugan Production Corp.
Site Name:	Sanchez O'Brien SWD # 001 (07/03/2023) (On-Site)
NM EMNRD OCD Incident ID No.	nAPP2318737964 and nAPP2322050850
Location:	36.3403587° North, 107.8359222° West Unit Letter L, Section 06, Township 24N, Range 09W San Juan County, New Mexico
Property:	Federal
Regulatory:	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 ¹	Method	Limit
Chloride	EPA 300.0 or SM4500 C1 B	600 mg/kg
TPH (GRO+DRO+MRO) ²	EPA SW-846 Method 8015M	100 mg/kg
BTEX ³	EPA SW-846 Method 8021B or 8260B	50 mg/kg
Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

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

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

³ - 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

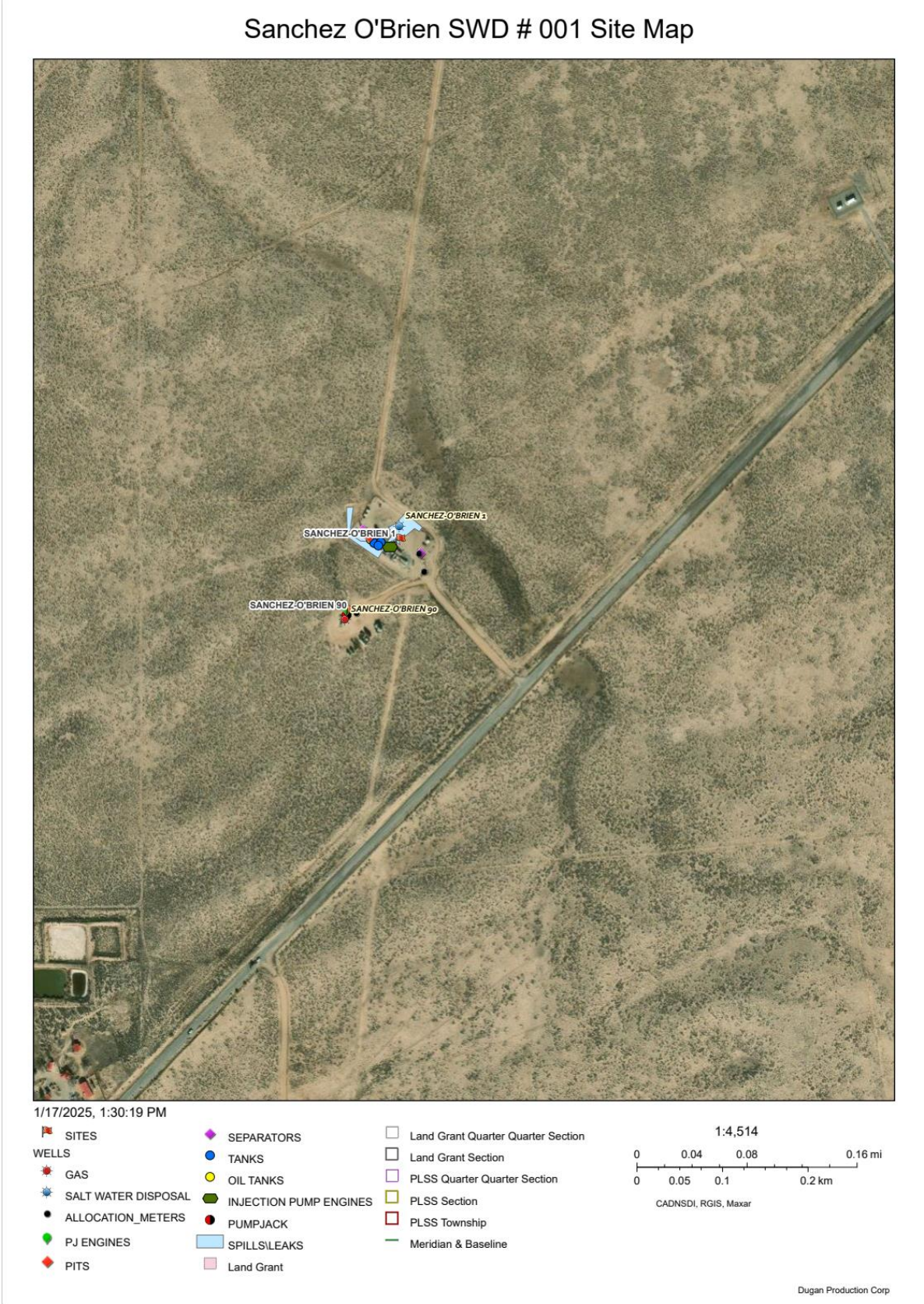
Based on the remediation efforts and the results of the soil sampling performed on January 28, 2025, Dugan Production Corp. has successfully remediated the site impacted by the produced water spill at the Sanchez O'Brien SWD # 001. The results from the 84 composite soil samples indicate that all contaminants, 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

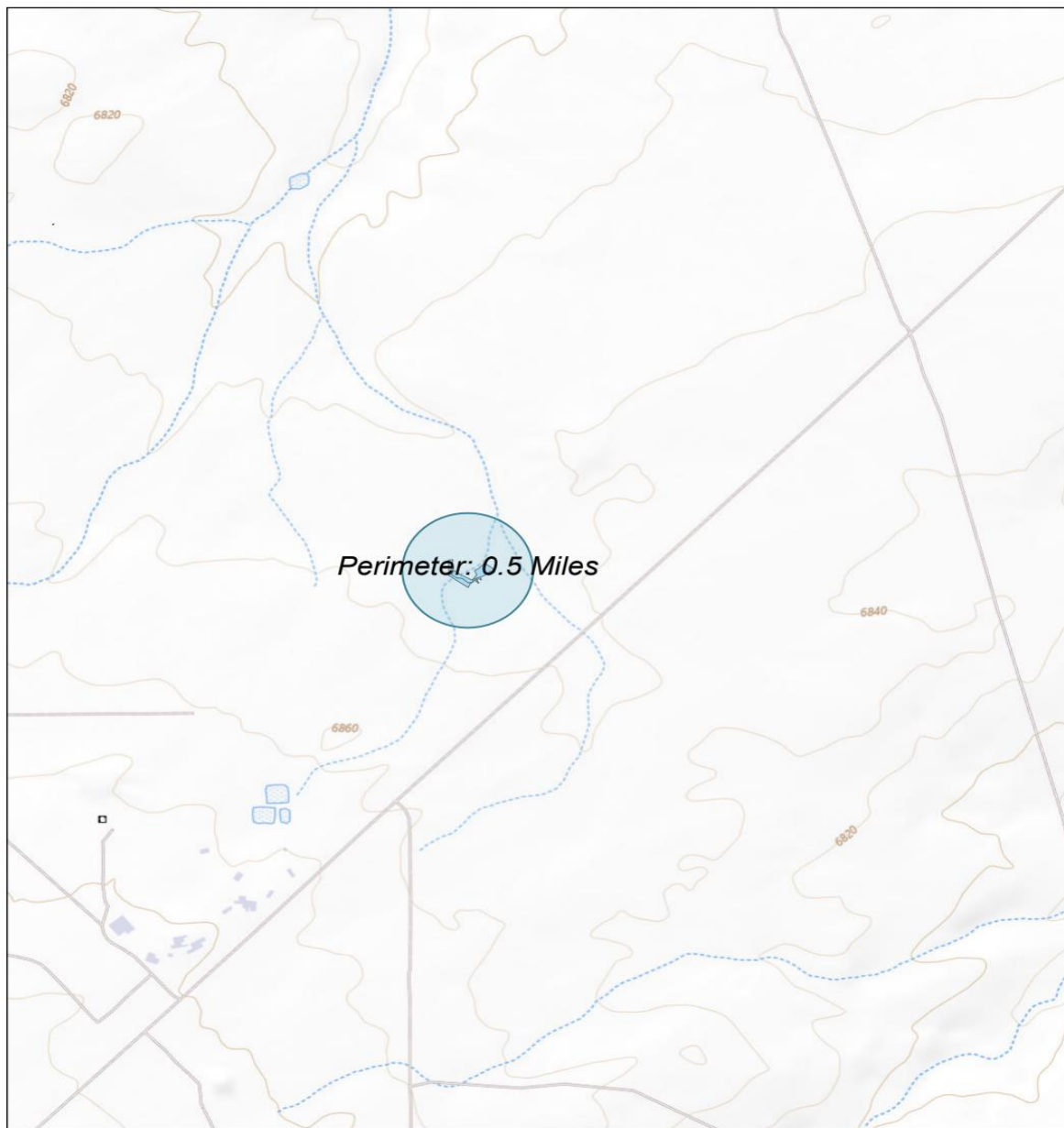
Sanchez O'Brien SWD # 001 Site Map



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

1:9,028
0 0.07 0.15 0.3 mi
0 0.13 0.25 0.5 km

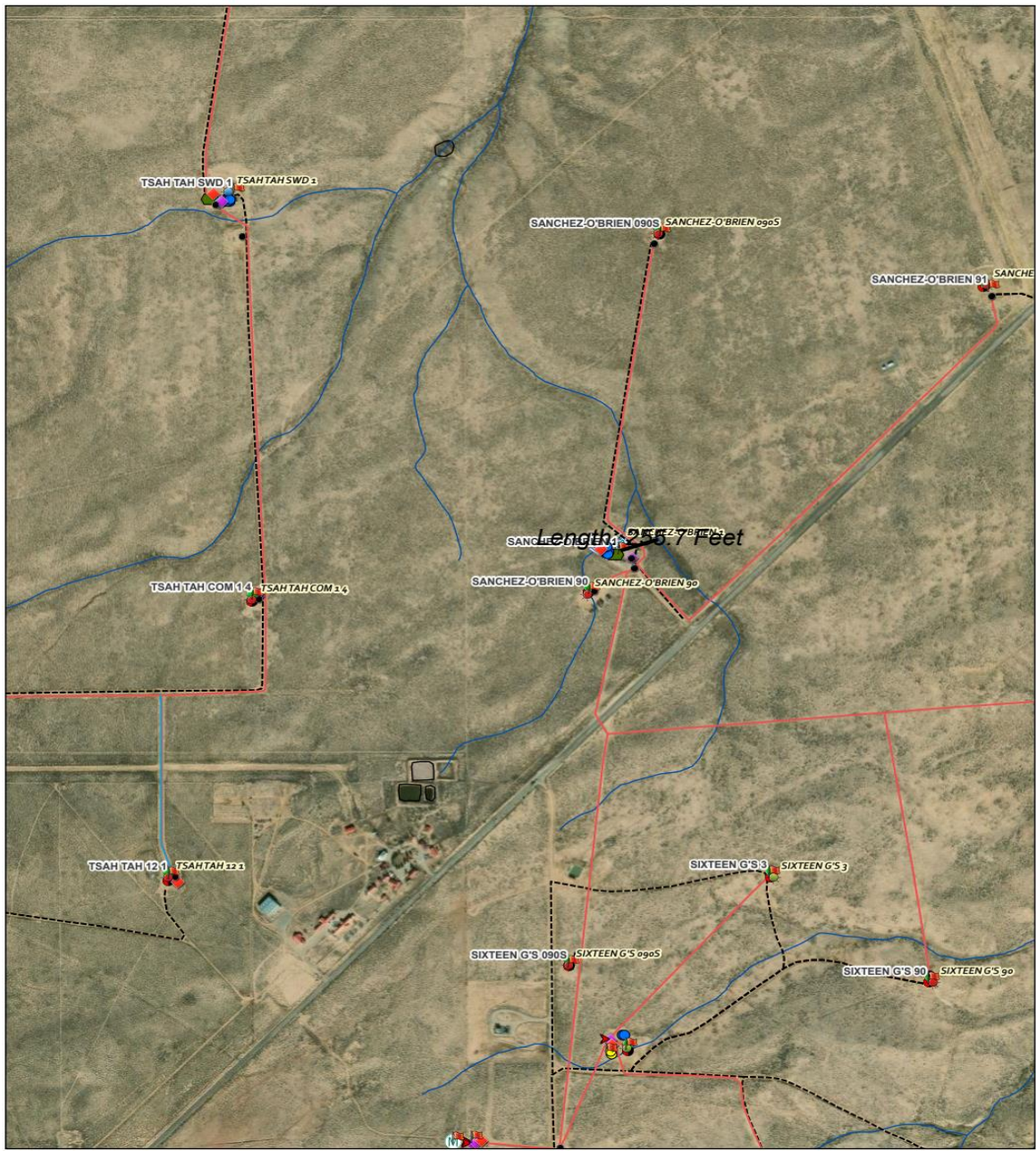
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S.

Dugan Production Corp

Appendix A: Maps and Site Diagrams

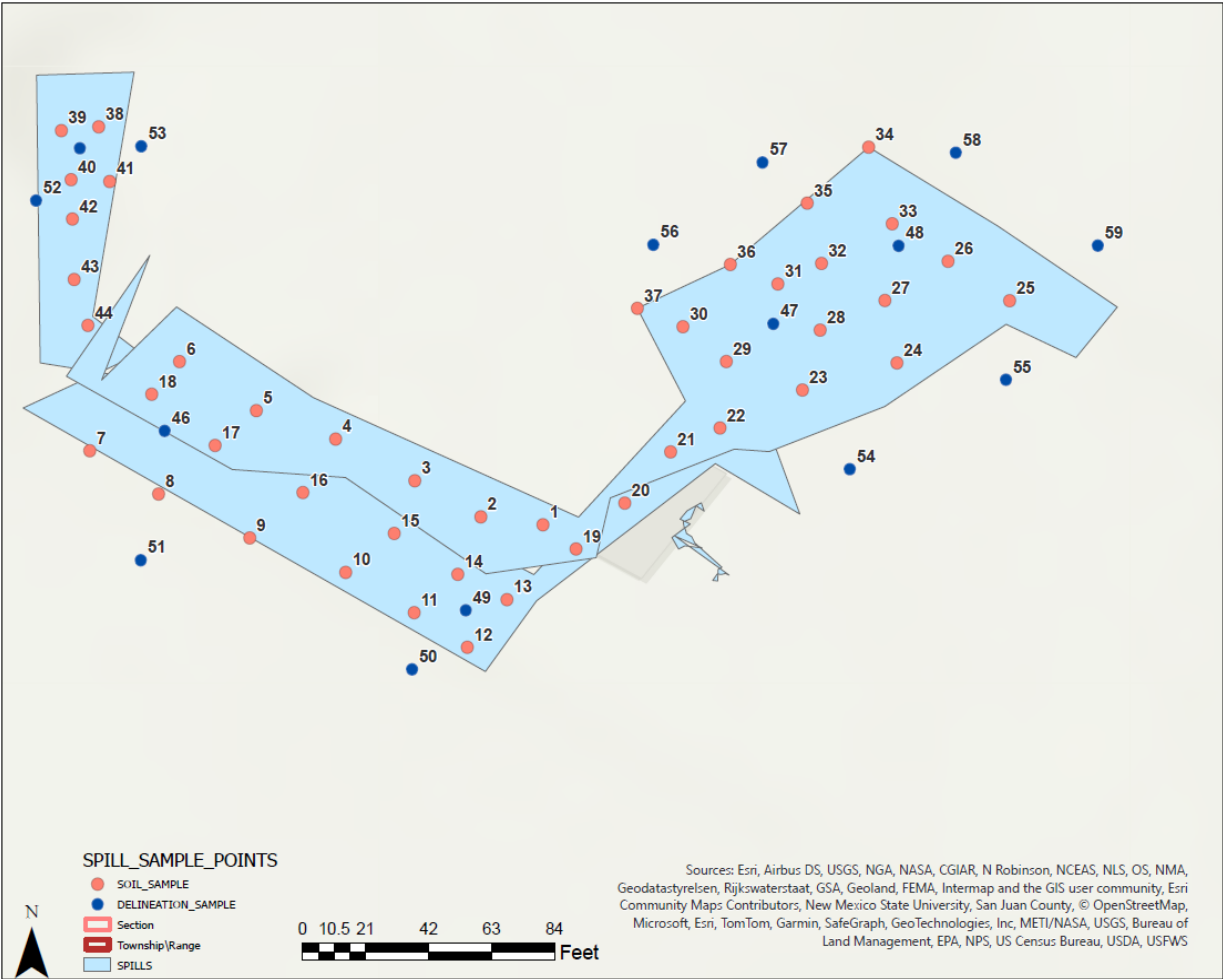
Map 3: Distance to Nearest Significant Watercourse

Sanchez O'Brien Distance to Watercourse Map



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.

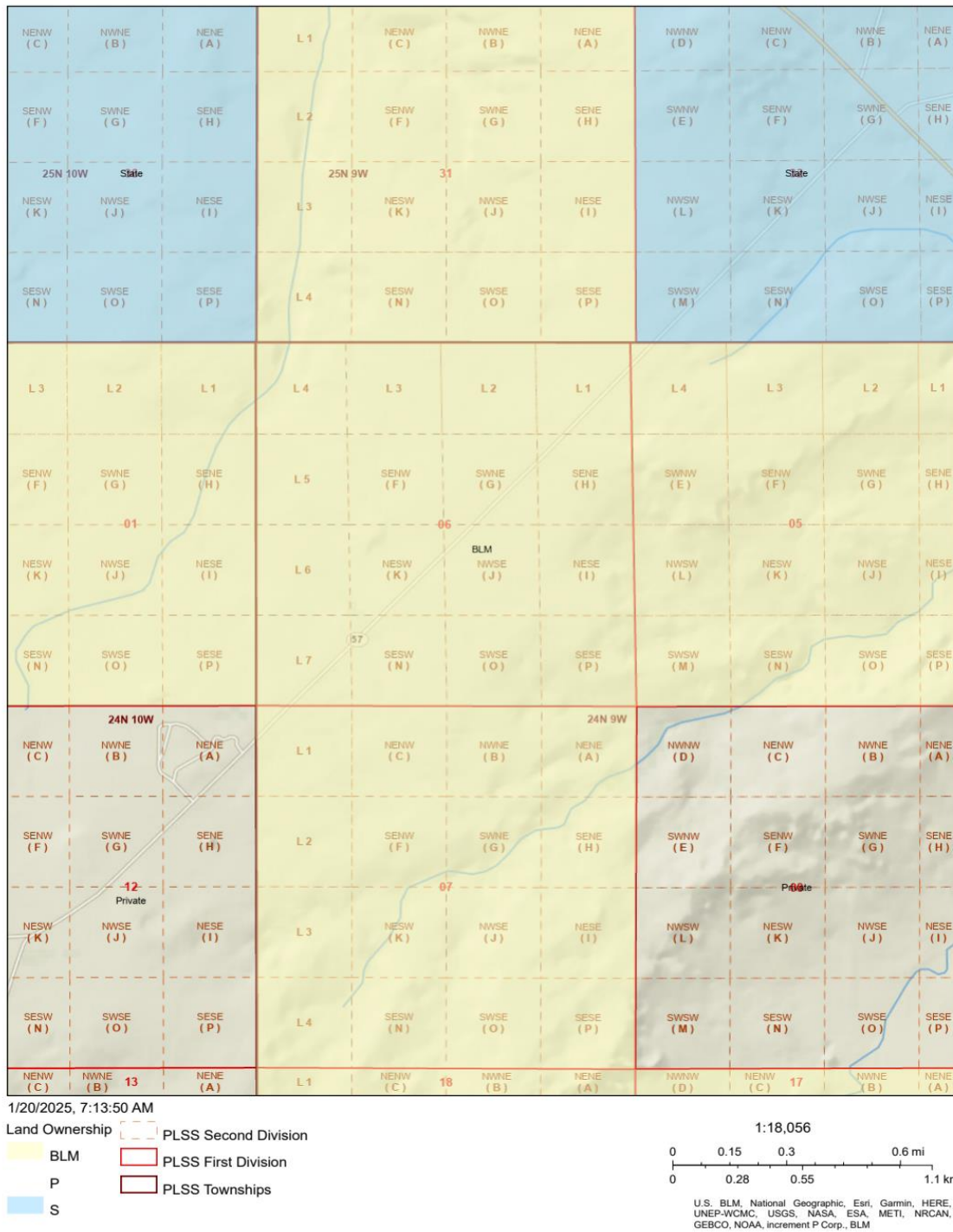
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/15/2024 at 4:25 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by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

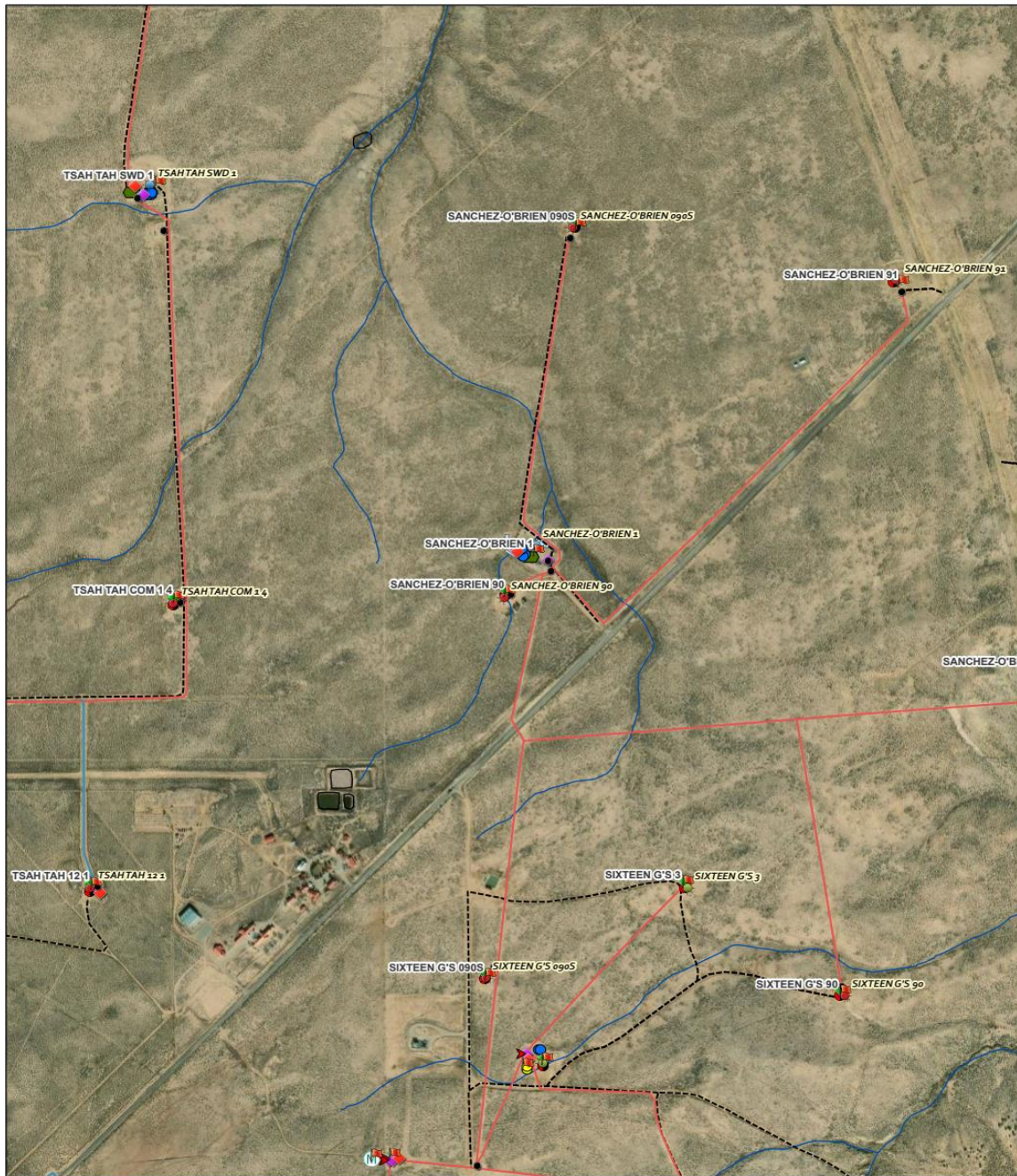


EMNRD MMD GIS Coordinator
 NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)

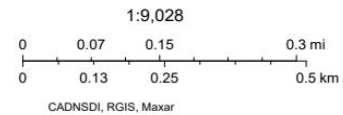
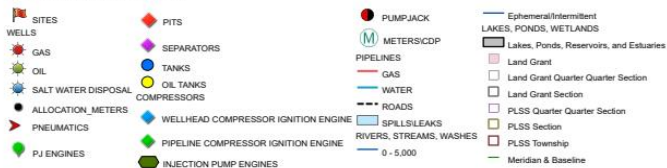
Appendix A: Maps and Site Diagrams

Map 8: Aerial View

Sanchez O'Brien SWD # 001 Aerial View



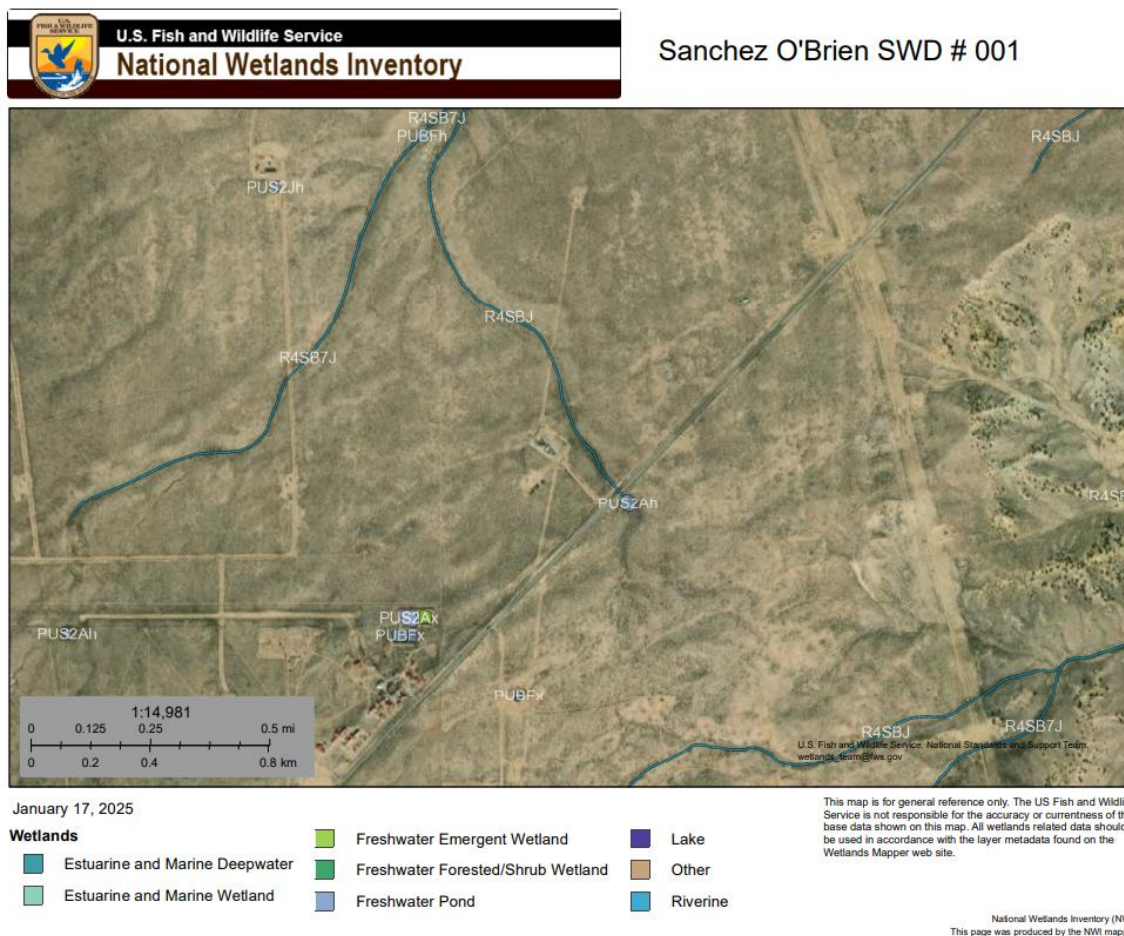
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Dugan Production Corp

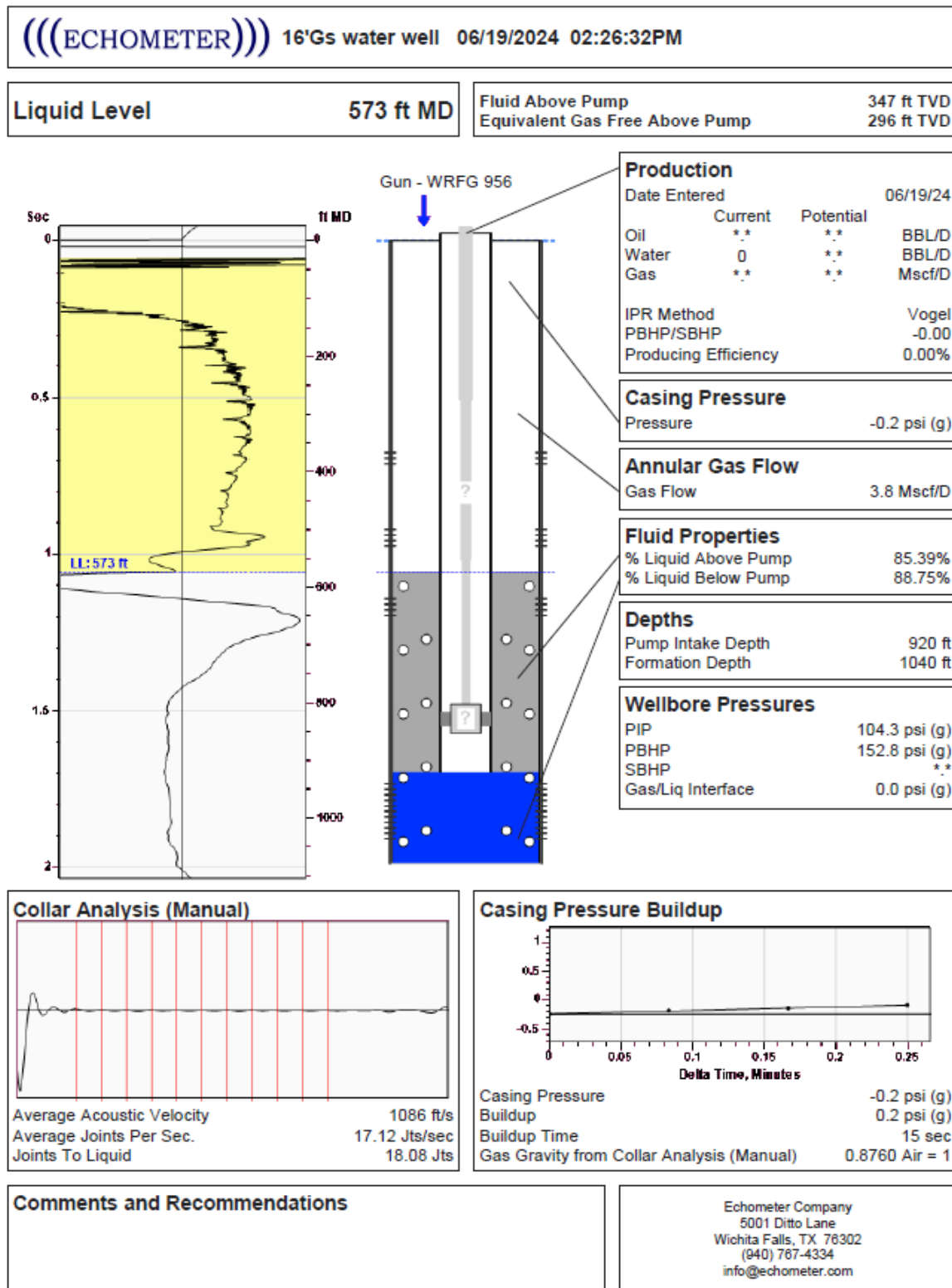
Appendix A: Maps and Site Diagrams

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



New Mexico Office of the State Engineer




Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Well Depth	Depth Water	Water Column
SJ 01255		SJ	SJ		NW	NW	07	24N	09W	245350.0	4024741.0 *		1100	1073	27
SJ 01712		SJ	SJ		NE	SE	27	24N	09W	251195.0	4018933.0 *		528	515	13
SJ 04587 POD1		SJ	SJ		NE	SW	25	24N	09W	253560.7	4018930.3		800	640	160

Average Depth to Water: **742 feet**

Minimum Depth: **515 feet**

Maximum Depth: **1073 feet**

Record Count: 3

Basin/County Search:

County: SJ

PLSS Search:

Range: 09W

Township: 24N

Section: 1-36

* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

January 17, 2025 11:56 AM MST

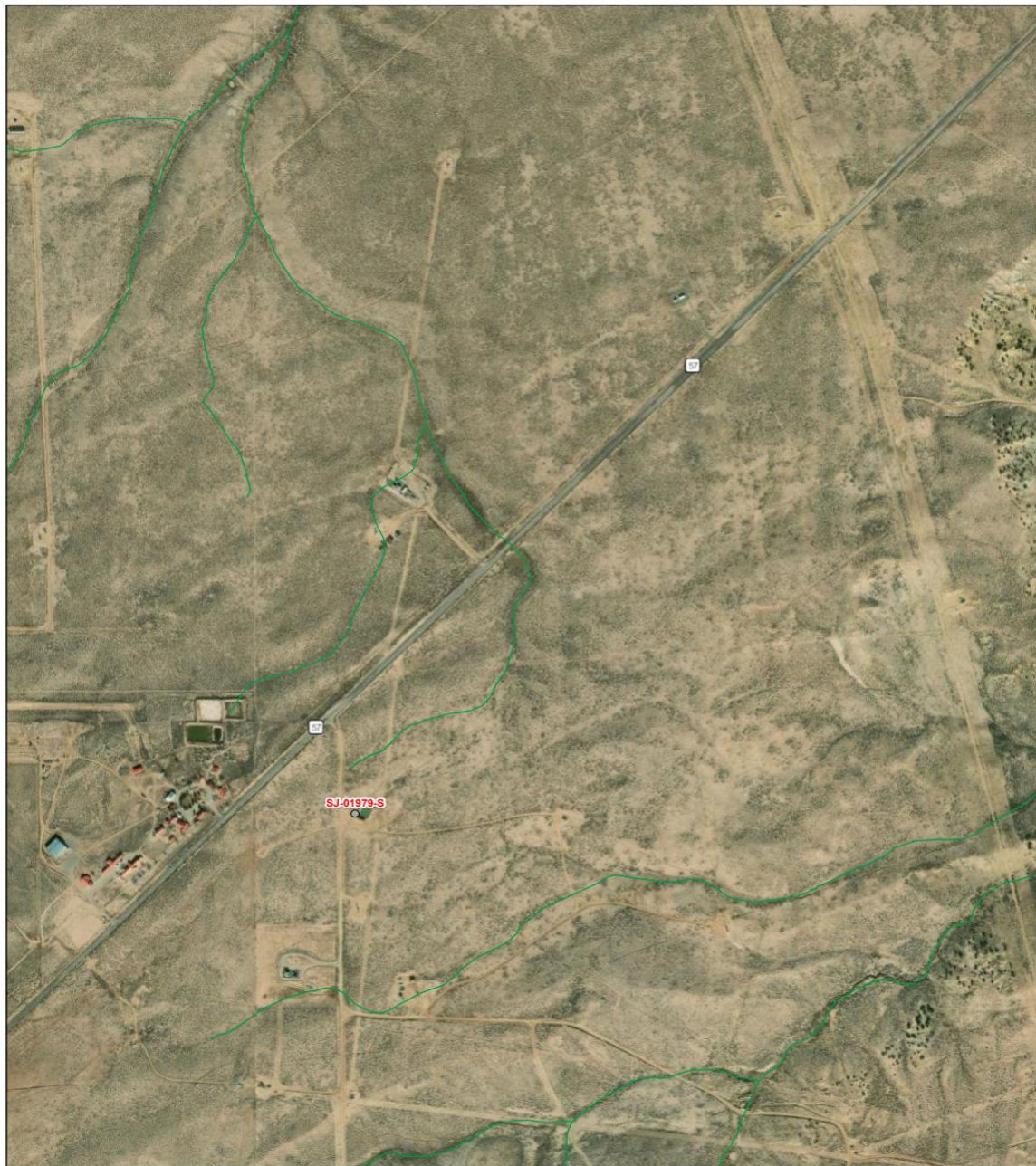
Page 1 of 1

Water Column/Average Depth to Water

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=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	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:

Kevin Smaka

Sent:

Friday, January 24, 2025 10:49 AM

To:

aadeloye@blm.gov

Cc:

Tyra Feil; Eileen Medrano

Subject:

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)

Report to:
Kevin Smaka



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

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
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Appendix E: Soil Analysis

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
1	6
2	7
3	8
4	9
5	10
6	11
7	12
8	13
9	14
10	15
11	16
12	17
13	18
14	19
15	20
16	21
17	22
18	23
19	24
20	25

Appendix E: Soil Analysis

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA 8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Appendix E: Soil Analysis

Sample Summary

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 02/03/25 12:25
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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	Reported:
PO Box 420	Project Number:	06094-0177	2/3/2025 12:25:30PM
Farmington NM, 87499	Project Manager:	Kevin Smaka	

1

E501202-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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2

E501202-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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.	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

3

E501202-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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4

E501202-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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5

E501202-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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6

E501202-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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7

E501202-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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8

E501202-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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9

E501202-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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10

E501202-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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11

E501202-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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12

E501202-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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13

E501202-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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14

E501202-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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15

E501202-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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16

E501202-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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17

E501202-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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18

E501202-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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19

E501202-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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20

E501202-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Project Number: Project Manager:	Sanchez O'Brien 06094-0177 Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Project Number: Project Manager:	Sanchez O'Brien 06094-0177 Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/3/2025 12:25:30PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2505075-BLK1)									
Chloride	ND	20.0							Prepared: 01/29/25 Analyzed: 01/29/25
LCS (2505075-BS1)									
Chloride	258	20.0	250		103	90-110			Prepared: 01/29/25 Analyzed: 01/29/25
Matrix Spike (2505075-MS1)									
Chloride	252	20.0	250	ND	101	80-120			Source: E501202-02 Prepared: 01/29/25 Analyzed: 01/29/25
Matrix Spike Dup (2505075-MSD1)									
Chloride	253	20.0	250	ND	101	80-120	0.501	20	Source: E501202-02 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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 02/03/25 12:25
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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

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	Cation/Anion PM	SDWA	CWA	RCRA
10.0	1-28-25	S	1	1		1						X						
				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 _____ <div>Lab Use Only</div> <div>Received on Ice: <input checked="" type="radio"/> Y <input type="radio"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C <u>4</u></div>										
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.																		

Page 31 of 33



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Chain of Custody

Page 2 of 9

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
10:20	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)		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 6 °C on _____						
<u>Kevin Smaga</u>		1-28-25		13:05		<u>Kevin Smaga</u>		1-28-25		13:05		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.																		

Page 32 of 33



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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 | Carrier: <u>Kavin</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: <u>4°C</u> | |

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



envirotech

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
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Appendix E: Soil Analysis

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
21	6
22	7
23	8
24	9
25	10
26	11
27	12
28	13
29	14
30	15
31	16
32	17
33	18
34	19
35	20
36	21
37	22
38	23
39	24
40	25

Appendix E: Soil Analysis

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Appendix E: Soil Analysis

Sample Summary

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 02/04/25 06:59
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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21

E501203-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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22

E501203-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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23

E501203-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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.	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

24

E501203-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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25

E501203-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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26

E501203-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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.	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

27

E501203-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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>						
		91.7 %	70-130	01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	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>						
		93.1 %	70-130	01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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>						
		105 %	61-141	01/29/25	01/30/25	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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28

E501203-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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29

E501203-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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30

E501203-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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31

E501203-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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32

E501203-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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33

E501203-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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34

E501203-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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35

E501203-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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36

E501203-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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37

E501203-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles by EPA 8021B						
	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>						
	94.0 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	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>						
	91.8 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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>						
	107 %	61-141		01/29/25	01/30/25	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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38

E501203-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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39

E501203-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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

40

E501203-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	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. PO Box 420 Farmington NM, 87499	Project Name: Project Number: Project Manager:	Sanchez O'Brien 06094-0177 Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 6:59:31AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 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

Page 3 of 9

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>		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 _____							
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.																							

Page 31 of 33



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Chain of Custody

Page 4 of 9

Client Information				Invoice Information		Lab Use Only		TAT		State										
Client: <u>Dugan</u>				Company: _____		Lab Work: <u>ES0203</u>		Job Number: <u>10094-0171</u>		1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: <u>Sanchez O'Brien</u>				Address: _____										<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	DRD/ORD by 8015	GRQ/ORD by 8015	RTX by 8021	VOC by 8260	Chloride 300.0	BDQC - NM	TCRQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Remarks			
10/09	1-28-25	S	1	31		11														
				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: <u>Kevin Smaka</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 6 °C on _____								
<u>Kevin Smaka</u>		1-28-25		13:05		<u>Caitlin Ma</u>		1-28-25		13:05		Lab Use Only								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N								
												T1 _____ T2 _____ T3 _____								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AWG Temp °C <u>4</u>								
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.																				

Page 32 of 33



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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



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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



envirotech

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

Raina Schwanz
Laboratory Administrator
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Appendix E: Soil Analysis

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
41	6
42	7
43	8
44	9
45	10
46	11
47	12
48	13
49	14
50	15
51	16
52	17
53	18
54	19
55	20
56	21
57	22
58	23
59	24
60	25

Appendix E: Soil Analysis

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Appendix E: Soil Analysis

Sample Summary

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

41

E501204-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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42

E501204-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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43

E501204-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	2/4/2025 7:02:02AM

44

E501204-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles by EPA 801B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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45

E501204-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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46

E501204-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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47

E501204-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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48

E501204-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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49

E501204-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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50

E501204-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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51

E501204-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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52

E501204-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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53

E501204-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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54

E501204-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	84.2 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	98.0 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	120 %	61-141		01/29/25	01/30/25	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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55

E501204-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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56

E501204-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	2/4/2025 7:02:02AM

57

E501204-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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58

E501204-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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59

E501204-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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60

E501204-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 7:02:02AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 02/04/25 07:02
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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

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: <u>Dugan</u>				Company: _____		Lab WO# <u>E501204</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.																			



Appendix E: Soil Analysis

Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: <u>Dugan</u>				Company: _____				Lab WQ# <u>E50204</u>		Job Number <u>NA094-0177</u>		1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Std <input checked="" type="checkbox"/>		NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> TX <input type="checkbox"/>					
Project Name: <u>Sanchez Obrien</u>				Address: _____				Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Chloride 300.0 B6DOC - NM TEEQ 1000 - TX RCRA 8 Metals Cation/Anion Pkg								EPA Program			
Project Manager: _____				City, State, Zip: _____												SDWA <input type="checkbox"/> CWA <input type="checkbox"/> RCRA <input type="checkbox"/>			
Address: _____				Phone: _____												Compliance <input type="checkbox"/> Y or <input type="checkbox"/> N			
City, State, Zip: _____				Email: _____												PWSID # _____			
Phone: _____				Miscellaneous: _____															
Email: _____																			
Sample Information												Remarks							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number													
10:00	1-28-75	S	1	51		11													
				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>					
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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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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Kevin Smaka

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



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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



envirotech

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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Appendix E: Soil Analysis

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
61	6
62	7
63	8
64	9
65	10
66	11
67	12
68	13
69	14
70	15
71	16
72	17
73	18
74	19
75	20
76	21
77	22
78	23
79	24
80	25

Appendix E: Soil Analysis

Table of Contents (continued)

81	26
82	27
83	28
84	29
QC Summary Data	30
QC - Volatile Organic Compounds by EPA8260B	30
QC - Volatile Organics by EPA 8021B	31
QC - Nonhalogenated Organics by EPA 8015D - GRO	32
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	34
QC - Anions by EPA 300.0/9056A	36
Definitions and Notes	38
Chain of Custody etc.	39

Appendix E: Soil Analysis

Sample Summary

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 02/04/25 14:07
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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61

E501205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatiles Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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62

E501205-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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63

E501205-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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64

E501205-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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65

E501205-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatil Organic by EPA 8021B						
	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	87.0 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	97.4 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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66

E501205-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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67

E501205-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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68

E501205-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	88.1 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	96.4 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	125 %	61-141		01/29/25	01/30/25	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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69

E501205-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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70

E501205-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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71

E501205-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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72

E501205-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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>	90.2 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	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>	95.6 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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>	124 %	61-141		01/29/25	01/30/25	
Anions by EPA 300.0/9056A	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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73

E501205-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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74

E501205-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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75

E501205-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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		93.8 %	70-130	01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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76

E501205-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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77

E501205-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	94.2 %	70-130		01/29/25	01/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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78

E501205-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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79

E501205-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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80

E501205-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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81

E501205-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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82

E501205-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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83

E501205-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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84

E501205-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	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	
Nonhalogenated Organics by EPA 8015D - GRO						
	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	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	
Anions by EPA 300.0/9056A						
	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2505072-BL K1)

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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Anions by EPA 300.0/9056A

Analyst: AK

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

Appendix E: Soil Analysis

QC Summary Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 2/4/2025 2:07:27PM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2505086-BLK1)									
Chloride	ND	20.0							Prepared: 01/29/25 Analyzed: 01/29/25
LCS (2505086-BS1)									
Chloride	249	20.0	250		99.5	90-110			Prepared: 01/29/25 Analyzed: 01/29/25
Matrix Spike (2505086-MS1)									
Chloride	250	20.0	250	ND	100	80-120			Source: E501205-05 Prepared: 01/29/25 Analyzed: 01/29/25
Matrix Spike Dup (2505086-MSD1)									
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. PO Box 420 Farmington NM, 87499	Project Name: Sanchez O'Brien Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 02/04/25 14:07
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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.

Chain of Custody

Page 7 of 9

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	DRD/ORD by 8015	GRD/ORD 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																	
				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		Received on ice: <input checked="" type="checkbox"/> Lab Use Only							
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.																							

Page 39 of 42



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Chain of Custody

Client Information
Client: 9.17.2011
Project Name: Sanchez o'brien
Project Manager:
Address:
City, State, Zip:
Phone:
Email:

Invoice Information
Company:
Address:
City, State, Zip:
Phone:
Email:
Miscellaneous:

Lab Use Only
Lab WO# E50205 Job Number 6094-011
TAT
1D 2D 3D Std ☒
Analysis and Method
GRO/DRO by 8015
GRO/DRO by 8015
BTEX by 8021
VOC by 8260
Chloride 300.0
SGDOC - NM
TEG 1005 - TX
RCRA 8 Metals
Cation/Anion Pkg
EPA Program
SDWA CWA RCRA
Compliance Y or N
PWSID #
Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number
10:00	1-28-25	S	1	71		11
				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: Kevin Smaka
Relinquished by: (Signature) Mon Yeh Date 1-28-25 Time 13:05 Received by: (Signature) Carla Ma Date 1-28-25 Time 13:05
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.

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 the same day.
Lab Use Only
Received on ice: ☒ Y / ☐ N
T1 T2 T3
AVG Temp °C 4



Chain of Custody

Page 9 of 9

[illegible]

Page 41 of 42

**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 | Carrier: Kevin Smaka |
| 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.

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

QUESTIONS

Action 522866

QUESTIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2322050850
Incident Name	NAPP2322050850 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	08/08/2023
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 Pump Produced Water Released: 100 BBL Recovered: 70 BBL Lost: 30 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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 522866

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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 Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 11/04/2025
--	---

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

QUESTIONS, Page 3

Action 522866

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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

Remediation Plan	
<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
Soil Contamination Sampling: (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	08/10/2023
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)	08/10/2023
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	53.7
<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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 522866

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and on-site 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)	Yes
Other Non-listed Remedial Process. Please specify	All information included in Closure Report.
<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 Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 11/04/2025
<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 522866

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [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 522866

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	424672
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	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	53.7
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	17411
What was the total volume (in cubic yards) reclaimed	53.7
Summarize any additional remediation 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 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>	
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 Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 11/04/2025

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QUESTIONS, Page 7

Action 522866

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<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)	08/10/2023
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 Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 11/04/2025

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QUESTIONS, Page 8

Action 522866

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<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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CONDITIONS

Action 522866

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 522866
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	12/31/2025