Dugan Production Corp

Spill Closure Report

Satchmo Com # 001

30-045-34429

N-03-22N-08W

1250 FSL 1600 FWL

Incident ID: nAPP2222355993

Introduction

Site Description and Background

Operator:	Dugan Production Corp.
Site Name:	Satchmo Com # 001 (05/13/22) (Off-Site)
NM EMNRD OCD Incident ID No.	nAPP2222355993
Location:	36.1469284° North, 107.6724319° West Unit Letter N, Section 03, Township 22N, Range 08W San Juan County, New Mexico
Property:	Federal
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On May 13, 2022, a New Mexico Oil Conservation Division inspector notified Dugan Production Corp. of a potential historical spill detected by satellite images off the well pad of the Satchmo Com # 001. The inspector noted bare spots off location and requested further investigation of Site and remediate if needed. Dugan initiated activities to verify historical spill had occurred and remediate potential environmental impacts to the area.

Project Objective

The project objective was to reduce environmental contaminants to a safe level per the NM EMNRD OCD 19.15.29.13(D)(1) NMAC requirements and restore area to its natural state.

Closure Criteria

The Site is subject to regulatory oversight by the NM EMNRD OCD. Dugan Production Corp referenced 19.15.29 New Mexico Administrative Code (NMAC), which establishes investigation and abatement action 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 siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 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.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database. No PODs were identified in the same Public Land Survey System (PLSS) section as the Sie or tin the adjacent PLSS sections.

- A hydrogeologic report for a nearby well and a Site evaluation was conducted to determine the groundwater depth. The groundwater for this spill site is approximately 200 feet below the surface. Based on electric open-hole logs, the iWaters database, literature reviewed, depth to ground water ranges from 15 - 20 feet below the surface in major arroyos and along

Escavada Wash. Moving away from the wash, ground water depth drops rapidly to greater than 220-feet below the surface. At the location of the subject temporary pit, lesser amounts of poor-quality ground water might be found at depths of approximately 590-770 feet in the Fruitland Coal and Pictured Cliffs Sandstone interval.

- The Site is not located within 300 feet of a NM EMNRD OCD – defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church.
- 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.
- No freshwater wells or springs were identified within 1,000 feet of the Site.
- 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.
- 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.
- 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.
- 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.

Based on the available information Dugan estimates the depth to water at the Site to be greater than 100 feet bgs, resulting in a Tier III ranking. Applicable closure criteria for soils remaining in place at the Site include:

Tier III Closure Criteria for Soils Impacted by a Release		
Constituent[1]	Method	Limit
Chloride	EPA 300.0 or SM4500 C1 B	20,000 mg/kg
TPH (GRO+DRO+MRO)[2]	EPA SW-846 Method 8015M	2,500 mg/kg
GRO+DRO	EPA SW-846 Method 8015M	1,000 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). Mother Oil/Lube Oil Range Organics (MRO).
[3] - Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

Soil Remediation

On May 14, 2023, Dugan initiated activities to remediate the petroleum hydrocarbon impact resulting from the historical spill. During the investigation of the Site, Dugan noted that salts had ponded in the area creating a crust and damaged vegetation in the spill area. The collection of soil samples were collected on June 7, 2022 and tested for Chlorides, BTEX, and TPH. The lab results from the collected soil samples indicated high concentrations of chlorides. A map identifying the approximate initial soil sample locations is included in **Appendix A: Map 3**.

The historic produced water spill affected 2,794 square feet of surface. Dugan treated approximately 2,800 cubic feet of soil.

Dugan performed the remedial steps approved May 19,2023, in the submitted Site Characterization and Remediation Plan. The flocculated/crust of the soil was removed by method of hand raking the soil for removal. A barrier was created to prevent the contamination of unaffected soil. The contaminated soil was soaked with fresh water, by use of a water truck and a hose. The soaking treatment procedure was conducted three times.

On October 1, 2024, Dugan collected twenty-nine soil samples after the remedial procedures were complete. The soil samples were collected to ensure Tier III criteria for soils impacted by a release standard was met, per Table 1 of Paragraph (2) of Subsection E of 19.15.29.12 NMAC.

Appendix A: Map 2 is a map identifying the approximate final soil sample locations and depicts the approximate dimensions of the spill area with respect to the well location. Photographic documentation of the remediation is included in **Appendix B**.

Soil Sampling

Dugan Production Corp. collected and submitted the initial soil samples on June 7, 2022, to Envirotech. On October 1, 2024, the final soil samples were collected and submitted 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 NELACITNI standards, unless otherwise noted.

The initial soil sampling program includes the collection of three composite soil samples (E206042-01A – E206042-03A) 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 C: Figure 1**.

The final sampling program includes the collection of twenty-nine soil samples (E410004-01A through E410004-29A) from within and outside the spill perimeter for laboratory analysis. Hand tools were utilized to obtain soil samples from within and outside the spill perimeter. Regulatory correspondence is provided in **Appendix C: Figure 2**.

Sampling

On June 7, 2022, the initial sampling was performed at the Site. The NM OCD was notified of the collection of samples which no representative was present during collection. Composite samples E206042-01A and E206042-02A were collected from the surface and E206042-03A was collected from the subsurface of the spill area.

On October 1, 2024, the final sampling was performed at the Site. The NM OCD was notified of the collection of samples which no representative was present during collection. Composite samples E410004-01A through E410004-07A were collected from the surface area within the spill perimeter. Composite samples E410004-08A, and E410004-12A were collected at a depth of six inches within the spill perimeter. Composite samples E410004-16A, E410004-18A, E410004-20A, E410004-22A, E410004-24A, E410004-26A and E-410004-28A were collected at a depth of six inches outside of the spill perimeter. Composite samples E410004-09A and E410004-13A were collected at a depth of twelve inches within the spill perimeter. Composite samples E410004-17A, E410004-19A, E410004-21A, E410004-23A, E410004-25A, E410004-27A, and E410004-29A were collected at a depth of twelve inches outside of the spill perimeter. Composite samples E410004-10A and E410004-14A were collected at a depth of twenty-four inches within the spill perimeter. Composite sample E410004-10A and E410004-14A were collected at a depth of eighteen inches within 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 initial samples are summarized in **Appendix D: Table 1**. The laboratory data sheets and executed chain-of-custody forms for the initial samples are provided in **Appendix D: Figure A**. The laboratory analytical results for the final samples are summarized in

Appendix D: Table 2. The laboratory data sheets and executed chain-of-custody forms for the final samples are provided in **Appendix D: Figure B**.

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 (E410004-01A through E410004-29A) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **(Appendix D: Table 2)**

- The laboratory analytical results for all composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.

- The laboratory analytical results for composite soil samples 1A through 3A indicate total BTEX concentrations of 0 mg/kg which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples 1A through 3A indicate combined TPH GRO/DRO/MRO concentrations at 0 mg/kg which is less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for all initial composite soil samples 1A through 3A indicate chloride was present at concentrations of 453 mg/kg, 1050 mg/kg, and 136 mg/kg, respectively, which 2A is not less than the NM EMNRD OCD closure criteria of 600 mg/kg.

- The laboratory analytical results for the final samples indicate the level of chloride present decreased. Soil Samples E410004-2A, E41004-07A, E41004-08A, E41004-09A, and E41004-11A indicate the presence of chloride at concentrations of 27.3 mg/kg, 127 mg/kg, 26 mg/kg, 31.8 mg/kg, and 178 mg/kg, respectfully, which are less than the NM EMNRD OCD closure criteria of 600 mg/kg.

Dugan then collected 29 soil samples which were analyzed to determine the concentrations of TPH, BTEX, and chlorides. The reclamation requirement in 19.15.29.13(D)(1) NMAC for chloride is less than 600 mg/kg and uncontaminated soils showing TPH less than 100 mg/kg, total BTEX less than 50 mg/kg, and benzene less than 10 mg/kg in the top four feet. The highest concentration for chloride found in the treated soil was 178 mg/kg, which is below the threshold of 600 mg/kg of the reclamation requirement in 19.15.29.13(D)(1) NMAC. There were 0 mg/kg TPH, BTEX, and benzene organics detected. **Please refer to Appendix D: Table 2** showing sampling results.

Reclamation

Dugan has restored the impacted surface area to its original condition prior to the release. Restoration of the site includes the replacement of treated soil to its relative positions and re-

contoured to match the area's topography. The disturbed area contains 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 300.0/9056A. The topsoil cover includes a suitable top layer to support vegetation establishment at the site. Natural revegetation occurred, with a uniform vegetative cover established, reflecting a life-form ratio within the total plant cover range of at least seventy percent of pre-disturbance levels, excluding noxious weeds. Reclamation photos are included in **Appendix B.**

Conclusion

Twenty-nine composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, total BTEX, chloride, or TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.

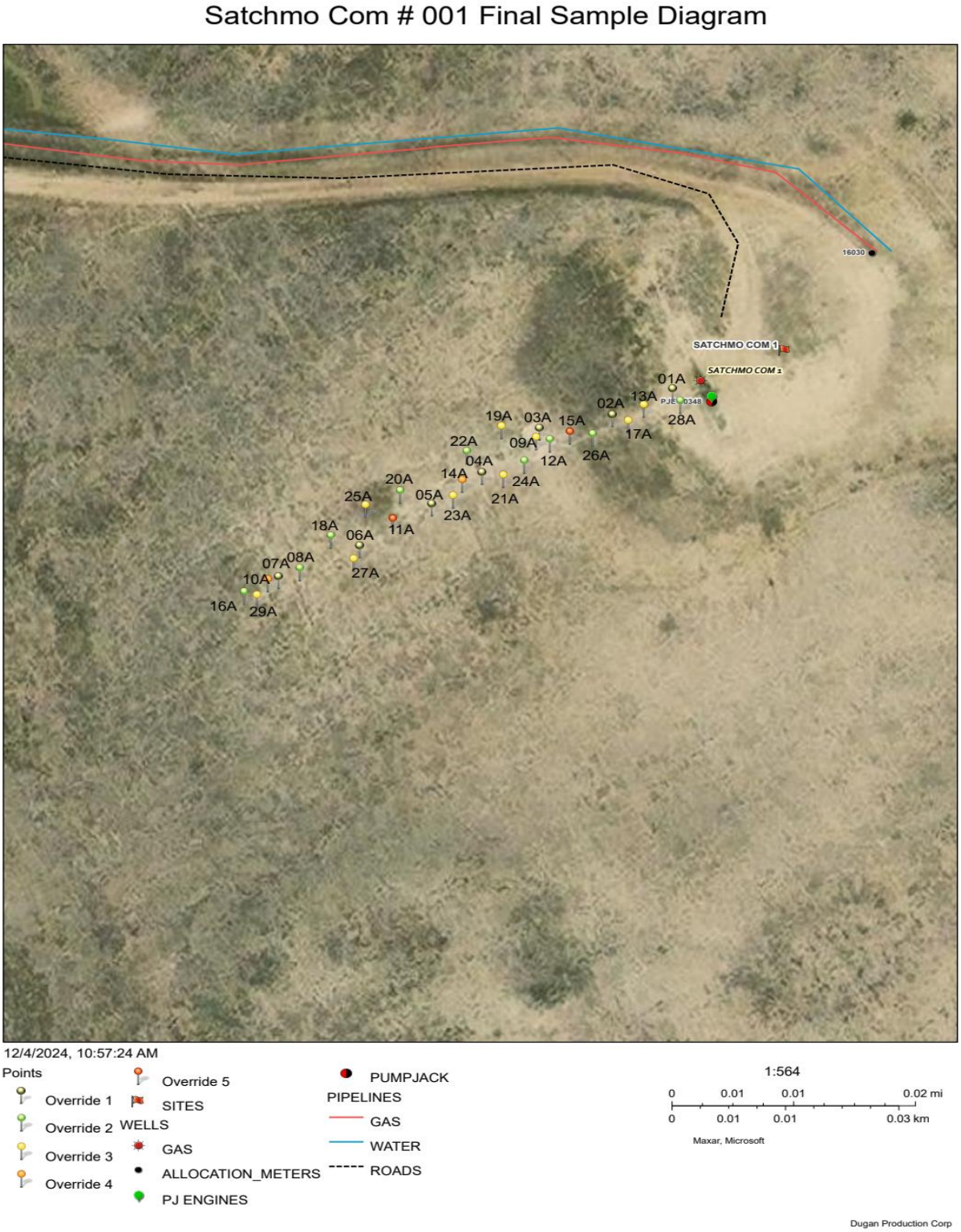
Approximately 2,800 square feet of petroleum hydrocarbon-impacted soils were subjected to fresh water soaking as part of the remediation process. The soil was then replaced and re-contoured to align with the surrounding topography. Subsequent natural regrowth within the affected area occurred, seamlessly integrating with the pre-existing vegetation, completing the reclamation process.

Appendix A: Maps and Sample Diagrams

Map 1: Site Map

Appendix A: Maps and Sample Diagrams

Map 2: Final Sample Diagram



Appendix A: Maps and Sample Diagrams

Map 3: Initial Sample Diagram

Satchmo Com # 001 Initial Sample Diagram

12/4/2024, 11:09:55 AM

Override 1
SITES
WELLS
GAS
ALLOCATION_METERS
PJ ENGINES
PUMPJACK
PIPELINES
GAS
WATER
ROADS

1:1,128

0 0.01 0.02 0.04 mi
0 0.01 0.03 0.06 km

Maxar, Microsoft

Dugan Production Corp

Appendix B: Photo Documentation

Figure 1: Spill Area Before Reclamation

Appendix B: Photo Documentation

Figure 2: Spill Area Before Reclamation

Appendix B: Photo Documentation

Figure 3: Spill Area After Reclamation

Appendix B: Photo Documentation

Figure 4: Spill Area After Reclamation

Appendix C: Regulatory Correspondence

Figure 1: Initial Sample Collection Notification

From: Kevin Smaka <Kevin.Smaka@duganproduction.com>
Sent: Wednesday, November 9, 2022 11:21 AM
To: Adeloye, Abiodun A <aadeloye@blm.gov>; Joyner, Ryan N <rjoyner@blm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: [EXTERNAL] Notice of Sampling

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Dugan will be gathering soil samples this coming Friday, 11/11/22 @9:00 AM for final spill confirmation sampling. We will start at the Satchmo #2.

The wells in question are Dugan's Satchmo #s 1 & 2.

Here are the wells legal information:

SATCHMO COM #001
30-045-34429
N-03-22N-08W
1250 FSL 1600 FWL

SATCHMO COM #002
30-045-34425
J-04-22N-08W
1550 FSL 1350 FEL

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

Appendix C: Regulatory Correspondence

Figure 2: Final Sample Collection Notification

From: Kevin Smaka
Sent: Thursday, September 26, 2024 4:03 PM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@emnrd.nm.gov>; 'Adeloye, Abiodun A' <aadeloye@blm.gov>
Cc: Tyra Feil <Tyra.Feil@duganproduction.com>; Mario Ulibarri <Mario.Ulibarri@duganproduction.com>; Drew Schilhabel <Drew.Schilhabel@duganproduction.com>; Jason Heslop <Jason.Heslop@duganproduction.com>; Marty Foutz <Marty.Foutz@duganproduction.com>; Sean Dugan <Sean.Dugan@duganproduction.com>
Subject: Notice of Sampling

Dugan will be collecting soil samples this coming Tuesday, 10/1/2024 at 10:00 AM at Dugan's Satchmo and Satchmo 2 well sites.

A C-141N has been uploaded to NMOCD.

Here is each wells information:

30-045-34429 SATCHMO COM #001 [36792]

General Well Information

Operator:	[6515] DUGAN PRODUCTION CORP
Status:	Active
Well Type:	Gas
Work Type:	New
Surface Location:	N-03-22N-08W 1250 FSL 1600 FWL
Lat/Long:	36.1649284,-107.6724319 NAD83
GL Elevation:	6801
KB Elevation:	
DF Elevation:	

1

30-045-34425 SATCHMO COM #002 [36792]

General Well Information

Operator:	[6515] DUGAN PRODUCTION CORP
Status:	Active
Well Type:	Gas
Work Type:	New
Surface Location:	J-04-22N-08W 1550 FSL 1350 FEL
Lat/Long:	36.165741,-107.6824188 NAD83
GL Elevation:	6825
KB Elevation:	
DF Elevation:	

Should you have questions please contact me!

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

Appendix D: Soil Analytics

Table 1: Initial Soil Sample Summary

Satchmo Com #001						
Lab Results Table			Results			
Sample #	Map 3: ID	Depth Sampled (feet BGS)	Chlorides (mg/kg)	TPH (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
01A	01A	0	453	ND	ND	ND
02A	02A	0	1050	ND	ND	ND
03A	03A	0	136	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 D: Soil Analytics

Table 2: Final Soil Sample Summary

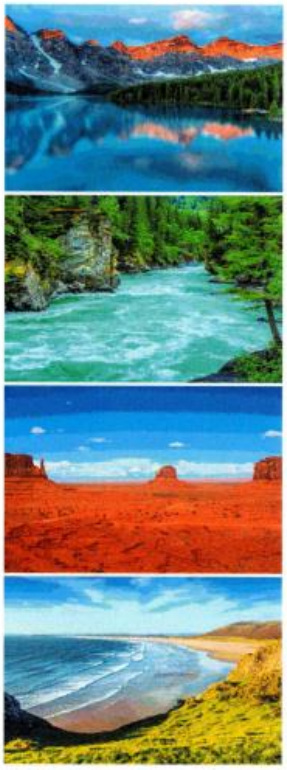
Satchmo Com #001 – Final Sample Data						
Lab Results Table			Results			
Sample #	Map 3: ID	Depth Sampled (feet BGS)	Chlorides (mg/kg)	TPH (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
01A	01A	0	ND	ND	ND	ND
02A	02A	0	27.3	ND	ND	ND
03A	03A	0	ND	ND	ND	ND
04A	04A	0	ND	ND	ND	ND
05A	05A	0	ND	ND	ND	ND
06A	06A	0	ND	ND	ND	ND
07A	07A	0	127	ND	ND	ND
08A	08A	0	26	ND	ND	ND
09A	09A	0	31.8	ND	ND	ND
10A	10A	0	ND	ND	ND	ND
11A	11A	0	178	ND	ND	ND
12A	12A	0	ND	ND	ND	ND
13A	13A	0	ND	ND	ND	ND
14A	14A	0	ND	ND	ND	ND
15A	15A	0	ND	ND	ND	ND
16A	16A	0	ND	ND	ND	ND
17A	17A	0	ND	ND	ND	ND
18A	18A	0	ND	ND	ND	ND
19A	19A	0	ND	ND	ND	ND
20A	20A	0	ND	ND	ND	ND
21A	21A	0	ND	ND	ND	ND
22A	22A	0	ND	ND	ND	ND
23A	23A	0	ND	ND	ND	ND
24A	24A	0	ND	ND	ND	ND
25A	25A	0	ND	ND	ND	ND
26A	26A	0	ND	ND	ND	ND
27A	27A	0	ND	ND	ND	ND
28A	28A	0	ND	ND	ND	ND
29A	29A	0	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 D: Soil Analytics

Figure A: Initial Samples Lab Data Sheets & Chain of Custody

Report to:

Kevin Smaka



5796 U.S. Hwy 64
Farmington, NM 87401

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

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Satchmo #1

Work Order: E206042

Job Number: 06094-0177

Received: 6/7/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/10/22

Appendix D: Soil Analytics

Date Reported: 6/10/22

Kevin Smaka
PO Box 420
Farmington, NM 87499

Project Name: Satchmo #1
Workorder: E206042
Date Received: 6/7/2022 3:30:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/7/2022 3:30:00PM, under the Project Name: Satchmo #1.

The analytical test results summarized in this report with the Project Name: Satchmo #1 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 reguarding 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Appendix D: Soil Analytics

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Appendix D: Soil Analytics

Sample Summary

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	06/10/22 09:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Satchmo #1 - 1	E206042-01A	Soil	06/07/22	06/07/22	Glass Jar, 4 oz.
Satchmo #1 - 2	E206042-02A	Soil	06/07/22	06/07/22	Glass Jar, 4 oz.
Satchmo # 1 - 3	E206042-03A	Soil	06/07/22	06/07/22	Glass Jar, 4 oz.

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/10/2022 9:12:08AM

Satchmo #1 - 1

E206042-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2224023
Chloride	**453**	20.0	1	06/07/22	06/08/22	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/10/2022 9:12:08AM

Satchmo #1 - 2

E206042-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2224023
Chloride	**1050**	20.0	1	06/07/22	06/08/22	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/10/2022 9:12:08AM

Satchmo # 1 - 3

E206042-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2224023
Chloride	**136**	20.0	1	06/07/22	06/08/22	

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Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/10/2022 9:12:08AM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2224023-BLK1)									Prepared: 06/07/22 Analyzed: 06/08/22
Chloride	ND	20.0							
LCS (2224023-BS1)									Prepared: 06/07/22 Analyzed: 06/08/22
Chloride	247	20.0	250		99.0	90-110			
Matrix Spike (2224023-MS1)				**Source: E206041-01**					Prepared: 06/07/22 Analyzed: 06/08/22
Chloride	956	20.0	250	718	95.5	80-120			
Matrix Spike Dup (2224023-MSD1)				**Source: E206041-01**					Prepared: 06/07/22 Analyzed: 06/09/22
Chloride	969	20.0	250	718	100	80-120	1.25	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.

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Appendix D: Soil Analytics

Definitions and Notes

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	06/10/22 09:12

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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 D: Soil Analytics

Project Information

Chain of Custody

Page 1 of 1

Client: Dugan Production
Project: Satchmo #1
Project Manager: Travis Smoker
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: Dugan Production
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E226042 Job Number 01094-0177

TAT: 1D 2D 3D Standard: X

EPA Program: CWA SDWA RCRA

State: NM CO UT AZ TX

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
12:30 pm	6-7-22	S	1	Satchmo #1 — 1	1	
"	"	"	"	Satchmo #1 2	2	
"	"	"	"	Satchgo #1 3	3	

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: Marissa Barr

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
	6-7-22	3:30 Pm		6/7/22	15:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 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 D: Soil Analytics

Envirotech Analytical Laboratory Printed: 6/7/2022 4:05:21PM

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:	06/07/22 15:30	Work Order ID:	E206042
Phone:	505-486-6207	Date Logged In:	06/07/22 16:02	Logged In By:	Caitlin Christian
Email:	kevin.smaka@duganproduction.com	Due Date:	06/10/22 17:00 (3 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: Mario Ulibarri
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
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?	Yes	
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 filteration 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

Comments/Resolution

Client Instruction

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

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Figure B: Final Samples Lab Data Sheets & Chain of Custody

Report to:

Kevin Smaka

5796 U.S. Hwy 64
Farmington, NM 87401

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

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Satchmo #1

Work Order: E410004

Job Number: 06094-0177

Received: 10/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/8/24

Appendix D: Soil Analytics

Date Reported: 10/8/24

Kevin Smaka
PO Box 420
Farmington, NM 87499

Project Name: Satchmo #1
Workorder: E410004
Date Received: 10/1/2024 3:03:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/1/2024 3:03:00PM, under the Project Name: Satchmo #1.

The analytical test results summarized in this report with the Project Name: Satchmo #1 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 reguarding 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Client Representative
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Envirotech Web Address: www.envirotech-inc.com

Appendix D: Soil Analytics

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Appendix D: Soil Analytics

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Appendix D: Soil Analytics

Sample Summary

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/08/24 11:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
1 SM #1 Surface Spill	E410004-01A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
2 SM #1 Surface Spill	E410004-02A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
3 SM #1 Surface Spill	E410004-03A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
4 SM #1 Surface Spill	E410004-04A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
5 SM #1 Surface Spill	E410004-05A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
6 SM #1 Surface Spill	E410004-06A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
7 SM #1 Surface Spill	E410004-07A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
8 SM #1 6 inch on spill	E410004-08A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
9 SM #! 12 inch on spill	E410004-09A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
10 SM #1 18 inch on spill	E410004-10A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
11 SM #1 24 inch on spill	E410004-11A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
12 SM #1 6 inch on spill	E410004-12A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
13 SM #1 12 inch on spill	E410004-13A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
14 SM #1 18 inch on spill	E410004-14A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
15 SM #1 24 inch on spill	E410004-15A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
16 SM #1 6 inch off pad	E410004-16A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
17 SM #1 12 inch off pad	E410004-17A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
18 SM #1 6 inch off pad	E410004-18A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
19 SM #1 12 inch off pad	E410004-19A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
20 SM #1 6 inch off pad	E410004-20A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
21 SM #1 12 inches off pad	E410004-21A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
22 SM #1 6 inches off pad	E410004-22A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
23 SM #1 12 inches off pad	E410004-23A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
24 SM #1 6 inches off pad	E410004-24A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
25 SM #1 12 inches off pad	E410004-25A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
26 SM #1 6 inchesd off pad	E410004-26A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
27 SM #1 12 inches off pad	E410004-27A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
28 SM #1 6 inches off pad	E410004-28A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.
29 SM #1 12 inches off pad	E410004-29A	Soil	10/01/24	10/01/24	Glass Jar, 2 oz.

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

1 SM #1 Surface Spill

E410004-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.3 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

2 SM #1 Surface Spill

E410004-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.2 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	**27.3**	20.0	1	10/02/24	10/02/24	

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Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

3 SM #1 Surface Spill

E410004-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.6 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

4 SM #1 Surface Spill

E410004-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.4 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.9 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

5 SM #1 Surface Spill

E410004-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.2 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.3 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

6 SM #1 Surface Spill

E410004-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.0 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.0 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*98.9 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

7 SM #1 Surface Spill

E410004-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.7 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.8 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	**127**	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

8 SM #1 6 inch on spill

E410004-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.1 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.4 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	**26.0**	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

9 SM #! 12 inch on spill

E410004-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.0 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.6 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	**31.8**	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

10 SM #1 18 inch on spill

E410004-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.9 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/03/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/02/24*	*10/03/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

11 SM #1 24 inch on spill

E410004-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.2 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.9 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	**178**	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

12 SM #1 6 inch on spill

E410004-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.1 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

13 SM #1 12 inch on spill

E410004-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.6 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

14 SM #1 18 inch on spill

E410004-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.6 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.5 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

15 SM #1 24 inch on spill

E410004-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.1 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

16 SM #1 6 inch off pad

E410004-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/07/24	
Toluene	ND	0.0250	1	10/02/24	10/07/24	
o-Xylene	ND	0.0250	1	10/02/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.7 %*	*70-130*	*10/02/24*	*10/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

17 SM #1 12 inch off pad

E410004-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/08/24	
Toluene	ND	0.0250	1	10/02/24	10/08/24	
o-Xylene	ND	0.0250	1	10/02/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*10/02/24*	*10/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.6 %*	*70-130*	*10/02/24*	*10/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

18 SM #1 6 inch off pad

E410004-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/08/24	
Toluene	ND	0.0250	1	10/02/24	10/08/24	
o-Xylene	ND	0.0250	1	10/02/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*10/02/24*	*10/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.2 %*	*70-130*	*10/02/24*	*10/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/03/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

19 SM #1 12 inch off pad

E410004-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.3 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.0 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/03/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

20 SM #1 6 inch off pad

E410004-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2440059
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.2 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/04/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*10/02/24*	*10/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2440062
Chloride	ND	20.0	1	10/02/24	10/03/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

21 SM #1 12 inches off pad

E410004-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*123 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

22 SM #1 6 inches off pad

E410004-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*129 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

23 SM #1 12 inches off pad

E410004-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.7 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*129 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

24 SM #1 6 inches off pad

E410004-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*129 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

25 SM #1 12 inches off pad

E410004-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*129 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

26 SM #1 6 inchesd off pad

E410004-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.1 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*137 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

27 SM #1 12 inches off pad

E410004-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*131 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

28 SM #1 6 inches off pad

E410004-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.7 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*133 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

Appendix D: Soil Analytics

Sample Data

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

29 SM #1 12 inches off pad

E410004-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Benzene	ND	0.0250	1	10/02/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/02/24	10/05/24	
Toluene	ND	0.0250	1	10/02/24	10/05/24	
o-Xylene	ND	0.0250	1	10/02/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/02/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/02/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.8 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2440060
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*10/02/24*	*10/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2440056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/24	10/05/24	
Surrogate: n-Nonane		*129 %*	*50-200*	*10/02/24*	*10/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2440063
Chloride	ND	20.0	1	10/02/24	10/02/24	

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Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2440059-BLK1)									Prepared: 10/02/24 Analyzed: 10/07/24
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	*7.09*		*8.00*		*88.6*	*70-130*			
LCS (2440059-BS1)									Prepared: 10/02/24 Analyzed: 10/07/24
Benzene	5.00	0.0250	5.00		100	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.96	0.0250	5.00		99.2	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.7	0.0250	15.0		98.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.06*		*8.00*		*88.3*	*70-130*			
Matrix Spike (2440059-MS1)				**Source: E410004-09**					Prepared: 10/02/24 Analyzed: 10/07/24
Benzene	4.58	0.0250	5.00	ND	91.6	54-133			
Ethylbenzene	4.47	0.0250	5.00	ND	89.3	61-133			
Toluene	4.54	0.0250	5.00	ND	90.9	61-130			
o-Xylene	4.45	0.0250	5.00	ND	89.0	63-131			
p,m-Xylene	9.07	0.0500	10.0	ND	90.7	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	90.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.07*		*8.00*		*88.3*	*70-130*			
Matrix Spike Dup (2440059-MSD1)				**Source: E410004-09**					Prepared: 10/02/24 Analyzed: 10/07/24
Benzene	4.79	0.0250	5.00	ND	95.8	54-133	4.45	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.8	61-133	4.89	20	
Toluene	4.76	0.0250	5.00	ND	95.3	61-130	4.75	20	
o-Xylene	4.68	0.0250	5.00	ND	93.7	63-131	5.08	20	
p,m-Xylene	9.54	0.0500	10.0	ND	95.4	63-131	5.00	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.8	63-131	5.02	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.07*		*8.00*		*88.3*	*70-130*			

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Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2440060-BLK1)									Prepared: 10/02/24 Analyzed: 10/05/24
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	*8.16*		*8.00*		*102*	*70-130*			
LCS (2440060-BS1)									Prepared: 10/02/24 Analyzed: 10/05/24
Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.04	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.20*		*8.00*		*102*	*70-130*			
Matrix Spike (2440060-MS1)				**Source: E410003-27**					Prepared: 10/02/24 Analyzed: 10/05/24
Benzene	5.45	0.0250	5.00	ND	109	54-133			
Ethylbenzene	5.24	0.0250	5.00	ND	105	61-133			
Toluene	5.37	0.0250	5.00	ND	107	61-130			
o-Xylene	5.27	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.19*		*8.00*		*102*	*70-130*			
Matrix Spike Dup (2440060-MSD1)				**Source: E410003-27**					Prepared: 10/02/24 Analyzed: 10/05/24
Benzene	4.64	0.0250	5.00	ND	92.9	54-133	16.0	20	
Ethylbenzene	4.45	0.0250	5.00	ND	89.1	61-133	16.3	20	
Toluene	4.56	0.0250	5.00	ND	91.2	61-130	16.2	20	
o-Xylene	4.50	0.0250	5.00	ND	90.0	63-131	15.9	20	
p,m-Xylene	9.06	0.0500	10.0	ND	90.6	63-131	16.1	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.4	63-131	16.0	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.24*		*8.00*		*103*	*70-130*			

Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2440059-BLK1)									Prepared: 10/02/24 Analyzed: 10/07/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.07*		*8.00*		*101*	*70-130*			
LCS (2440059-BS2)									Prepared: 10/02/24 Analyzed: 10/04/24
Gasoline Range Organics (C6-C10)	38.6	20.0	50.0		77.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.10*		*8.00*		*101*	*70-130*			
Matrix Spike (2440059-MS2)				**Source: E410004-09**					Prepared: 10/02/24 Analyzed: 10/04/24
Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.11*		*8.00*		*101*	*70-130*			
Matrix Spike Dup (2440059-MSD2)				**Source: E410004-09**					Prepared: 10/02/24 Analyzed: 10/04/24
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130	11.0	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.08*		*8.00*		*101*	*70-130*			

Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2440060-BLK1)									Prepared: 10/02/24 Analyzed: 10/05/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.8*	*70-130*			
LCS (2440060-BS2)									Prepared: 10/02/24 Analyzed: 10/05/24
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.67*		*8.00*		*95.9*	*70-130*			
Matrix Spike (2440060-MS2)				**Source: E410003-27**					Prepared: 10/02/24 Analyzed: 10/05/24
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.81*		*8.00*		*97.6*	*70-130*			
Matrix Spike Dup (2440060-MSD2)				**Source: E410003-27**					Prepared: 10/02/24 Analyzed: 10/05/24
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130	2.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.76*		*8.00*		*97.0*	*70-130*			

Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

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 (2440055-BLK1)									Prepared: 10/02/24 Analyzed: 10/03/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			
LCS (2440055-BS1)									Prepared: 10/02/24 Analyzed: 10/03/24
Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132			
Surrogate: n-Nonane	*53.0*		*50.0*		*106*	*50-200*			
Matrix Spike (2440055-MS1)				**Source: E410004-06**					Prepared: 10/02/24 Analyzed: 10/03/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	*52.3*		*50.0*		*105*	*50-200*			
Matrix Spike Dup (2440055-MSD1)				**Source: E410004-06**					Prepared: 10/02/24 Analyzed: 10/03/24
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132	4.22	20	
Surrogate: n-Nonane	*52.3*		*50.0*		*105*	*50-200*			

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Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

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 (2440056-BLK1)									Prepared: 10/02/24 Analyzed: 10/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*61.4*		*50.0*		*123*	*50-200*			
LCS (2440056-BS1)									Prepared: 10/02/24 Analyzed: 10/04/24
Diesel Range Organics (C10-C28)	306	25.0	250		122	38-132			
Surrogate: n-Nonane	*60.2*		*50.0*		*120*	*50-200*			
Matrix Spike (2440056-MS1)				**Source: E410003-25**					Prepared: 10/02/24 Analyzed: 10/04/24
Diesel Range Organics (C10-C28)	318	25.0	250	ND	127	38-132			
Surrogate: n-Nonane	*62.1*		*50.0*		*124*	*50-200*			
Matrix Spike Dup (2440056-MSD1)				**Source: E410003-25**					Prepared: 10/02/24 Analyzed: 10/04/24
Diesel Range Organics (C10-C28)	317	25.0	250	ND	127	38-132	0.0503	20	
Surrogate: n-Nonane	*63.8*		*50.0*		*128*	*50-200*			

Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2440062-BLK1)									Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	ND	20.0							
LCS (2440062-BS1)									Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2440062-MS1)				**Source: E410004-11**					Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	389	20.0	250	178	84.4	80-120			
Matrix Spike Dup (2440062-MSD1)				**Source: E410004-11**					Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	394	20.0	250	178	86.4	80-120	1.27	20	

Appendix D: Soil Analytics

QC Summary Data

Dugan Production Corp.	Project Name:	Satchmo #1	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/8/2024 11:42:25AM

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 (2440063-BLK1)									Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	ND	20.0							
LCS (2440063-BS1)									Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2440063-MS1)				**Source: E410003-23**					Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	259	20.0	250	ND	104	80-120			
Matrix Spike Dup (2440063-MSD1)				**Source: E410003-23**					Prepared: 10/02/24 Analyzed: 10/02/24
Chloride	257	20.0	250	ND	103	80-120	0.941	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.

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Appendix D: Soil Analytics

Definitions and Notes

Dugan Production Corp.	Project Name:	Satchmo #1	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/08/24 11:42

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 D: Soil Analytics

Chain of Custody Page 1 of 3

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Dugan Production	Company: Dugan	Lab WO# E410004	Job Number 06094-0077	1D 2D 3D Std: x	NM x CO UT TX
Project Name: SATEHMO #1	Address:			
Project Manager: Kevin Smaka	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous:			
Email:				

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Chloride 300.0; SGDOC - NM; TCEQ 1005 - TX; RCRA 8 Metals; Cation/Anion Pkg

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	Remarks
12:00 pm	10/1/24	S	1	1 SM #1 Surface sp:11		1	
				2 " " " "		2	
				3 " " " "		3	
				4 " " " "		4	
				5 " " " "		5	
				6 " " " "		6	
				7 " " " "		7	
				8 " " 6 inch on sp: 11		8	
				9 " " 12 inch on sp: 11		9	
				10 " " 18 inch on sp: 11		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: Mario Ybarra

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-1-24	2:30		10.1.24	15:03

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

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

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above 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 D: Soil Analytics

Chain of Custody

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Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Dugan Production	Company: Dugan	Lab WO# E410004	Job Number 06094-0171	1D 2D 3D Std	NM CO UT TX
Project Name: SATCHMO #1	Address:			
Project Manager: Kevin Smaka	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous:			
Email:				

Sample Information							Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg		SDWA	CWA	RCRA
																	Compliance Y or N		
																	PWSID #		
Pm 12:00	10/1/24	S	1	11 SM#1 24 inch on spill		11											Remarks		
				12 " " 6 inch on spill		12													
				13 " " 12 inch on spill		13													
				14 " " 18 inch on spill		14													
				15 " " 24 inch on spill		15													
				16 " " 6 inch off Pad		16													
				17 " " 12 inch off Pad		17													
				18 " " 6 inch off Pad		18													
				19 " " 12 inch off Pad		19													
				20 " " 6 inch off Pad		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: Mario Ubiarri

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-1-24	3:00 PM	Caitlin Mair	10.1.24	15:03
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

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

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above 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 D: Soil Analytics

Chain of Custody

Page 3 of 3

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Dugan Production	Company: Dugan	Lab WO# E410004	Job Number 03094-0170	1D 2D 3D Std: X	NM X CO UT TX
Project Name: SATCHMO #1	Address:			
Project Manager: Kevin Smaka	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous:			
Email:				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	Remarks
12:00 pm	10/1/24	S	1	21 SM#1 12 inches off Pad		21										
				22 " " 6 inches off Pad		22										
				23 " " 12 inches off Pad		23										
				24 " " 6 inches off Pad		24										
				25 " " 12 inches off Pad		25										
				26 " " 6 inches off Pad		26										
				27 " " 12 inches off Pad		27										
				28 " " 6 inches off Pad		28										
				29 " " 12 inches off Pad		29										

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

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: Maria Ybarra

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-1-24	3:00 pm		10.1.24	15:03
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

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.

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above 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 D: Soil Analytics

Envirotech Analytical Laboratory

Printed: 10/2/2024 8:41:54AM

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:	10/01/24 15:03	Work Order ID:	E410004
Phone:	505-486-6207	Date Logged In:	10/01/24 15:26	Logged In By:	Caitlin Mars
Email:	kevin.smaka@duganproduction.com	Due Date:	10/08/24 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: Mario Ulibarri
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

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

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

Date

envirotech Inc.

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 430544

QUESTIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 430544
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2222355993**
Incident Name	**NAPP2222355993 SATCHMO COM #1 @ 30-045-34429**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-045-34429] SATCHMO COM #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SATCHMO COM #1
Date Release Discovered	05/13/2022
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: Other | Other (Specify) | Produced Water | Released: 0 BBL (Unknown Released Amount) | Recovered: 0 BBL | Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 430544
	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.**

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.

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	False
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	No berms, dikes, absorbent pads or other containment devices have been used - OCD inspector notified operator that there was "some discoloration in area of wellhead that runs off location to the south approximately 140'. The light colored staining is in large area that can be seen in satellite photos."

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: 12/19/2024

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QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 430544
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
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.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 200 and 300 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 300 and 500 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (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	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
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.	
Requesting a remediation plan approval with this submission	Yes
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.	
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)	178
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
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.	
On what estimated date will the remediation commence	06/07/2022
On what date will (or did) the final sampling or liner inspection occur	10/01/2024
On what date will (or was) the remediation complete(d)	10/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	2794
What is the estimated volume (in cubic yards) that will be reclaimed	207
What is the estimated surface area (in square feet) that will be remediated	2794
What is the estimated volume (in cubic yards) that will be remediated	207
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.	
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.	

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QUESTIONS (continued)

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

QUESTIONS

Remediation Plan (continued)	
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.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(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)	No
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 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: 02/11/2025
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.	

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QUESTIONS (continued)

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	Action Number: 430544
	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 (continued)

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	Action Number: 430544
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**387595**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/01/2024**
What was the (estimated) number of samples that were to be gathered	**29**
What was the sampling surface area in square feet	**2794**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2794
What was the total volume (cubic yards) remediated	207
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	2794
What was the total volume (in cubic yards) reclaimed	207
Summarize any additional remediation activities not included by answers (above)	All information included in closure report.

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

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

I hereby agree and sign off to the above statement	Name: Tyra Feil Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 02/11/2025

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QUESTIONS (continued)

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	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2794
What was the total volume of replacement material (in cubic yards) for this site	0
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.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	10/01/2024
Summarize any additional reclamation activities not included by answers (above)	No additional information not provided in Closure Report.
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 reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Tyra Feil Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 02/11/2025

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QUESTIONS (continued)

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	Action Number: 430544
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
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.	

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CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/29/2025