Dugan Production Corp

Site Characterization and Reclamation Plan

Juniper 18-24

30-045-32742

N-18-24N-10W

950 FSL 1500 FWL

Incident ID: nAPP2411453943

Introduction

On April 23, 2024 there was a produced water spill that affected 5744 square feet of surface at the Juniper 18-24 wellsite. The spills perimeter was measured to be 475.2 linear feet.

The spill was caused by corrosion of a pipeline. Current response efforts have focused on repairing the damaged section of the line and ensuring no waste caused further damage to the environment, wildlife or the public.

The spill occurred within soils that can be characterized as a sandy loam. Please refer to **Appendix C** for pictures showing the soil conditions of the site.

Site Characterization

As directed in 19.15.29.11 Dugan generated the needed maps and documents to fully characterize this site and provide a path toward reclamation.

The first item required as part of the site characterization was a scaled site map showing the spill area and significant surface features. Dugan has included a map in **Appendix A (Map 1)** showing the site and its associated infrastructure. The pipelines shown on the map are Dugan's infrastructure and are based on pipeline construction crews as built diagrams.

The next item required as part of the site characterization is a depth to groundwater determination. Dugan used the New Mexico Office of the State Engineers iWaters database to find various water wells in the area. The first search was done for section 18 of T-24N and R-10W. No results were returned. Dugan expanded the scope of the search to include all sections to T-24N and R-10W and 11W. In so doing Dugan located 5 water wells across both townships. The data is included in **Appendix B (Table 3)**

The average depth to groundwater is 326 feet below surface.

Another point worth considering for depth to groundwater is proximity to washes or other watercourses in the area. There are 2 watercourses within 800 feet of the spill site. Typical hydrologic behavior of ephemeral watercourses in the San Juan Basin has very shallow depth to water in the immediate area of the watercourse and water levels rapidly dropping as one moves away from the water course.

Based on the data presented in Table 1 and the working knowledge of water sources in the area Dugan estimates water is **greater than 50 feet below the surface but not greater than 100 feet** in the spill area.

Dugan generated a map showing all water courses within ½ mile of the spill area. The map has been included with this submittal and is found in **Appendix A (Map 2).** The map shows all water courses within ½ mile of the site. The map was generated using the USGS national map hydrology dataset. The map indicates there are several ephemeral water courses in the area but nothing within 300 feet of the site.

As directed in NMAC 191.15.29.11 Dugan measured the distance from the spill boundary to the nearest water course and found the nearest significant watercourse was **528 feet** from the edge of the spill. See **Appendix A (Map 2)** for map with measurements.

Dugan collected soil samples to determine the levels of soil contamination and delineate the site vertically and horizontally by collecting 32 samples from location. Twelve 5-point composite samples were collected from the surface of the affected area from depths no greater than 6''. Dugan then proceeded to bore 10 holes using a hand auger from the known boundary of the spill and from points located inside the boundary of the spill. Delineation soil samples were collected as point samples from depths of 2' and 4'. Dugan determined that delineation samples at 2' and 4' were appropriate because test holes were dug with a shovel and the deepest observed depth of saturated soils was found at a depth of 1'. A sampling diagram is in **Appendix A (Map 3).**

Upon further consultation with NMOCD Dugan collected one additional delineation sample. In this sample Dugan collected samples at 6'', 12'', 18'' and 24''. Results indicate minimal chlorides were found in each lens. A copy of the results are found in **Appendix D** and a map showing the single delineation point is found in **Appendix A (Map 9).**

Lab results show there are elevated levels of salt in the soil that must be remediated. Delineation Results show there are trace amounts of salt present in the soil that do not require remediation. The lab results indicate this site is fully delineated. A copy of the lab results is found in **Appendix D**

Remediation Plan

Dugan collected a soil sample from the highest point of contamination (**Appendix A: Map 3 and Appendix B: Table 1)** and another background sample off-pad and upgradient of the site. Both samples were tested for Sodium Absorption Ratio. A value higher than 5 indicates remediation is necessary. Lab results show that remediation is necessary. A copy of the results are found in **Appendix D: SAR Lab Results.** The link below provides some background information on SAR and how to interpret the results:

https://soilhealthnexus.org/resources/soil-properties/soil-chemical-properties/sodium-adsorption-ratio-and-sodicity/

Dugan is proposing to the division that gypsum and fresh water be worked into the affected soils at a rate of four tons per acre (1040 lbs) and flushed at with 320 (barrels) bbls of fresh water. The affected surface will be scarified to a depth of 1 foot and the gypsum will be evenly distributed across the affected area. After the surface has been prepared and the amendment added we propose water be added to the surface at a rate of 80 bbls per treatment. In total there will be 4 flush treatments applied one time per week until the entire surface has been flushed.

It is estimated that there will be 478 cubic feet of soil to remediate at the site. All lab results indicate only the surface is affected. Nothing below the first few inches shows chloride contamination at high levels. This number is calculated using the spill surface area and multiplying by 1 inch to arrive at a volume of 478 cubic feet.

As was noted, this spill was fully delineated. A map was generated showing where each sampling point was collected and its corresponding location on a sampling diagram. The map is

found in **Appendix A (Map 3)**. In addition to the map a copy of the lab results has been included with this submittal. The lab results are found in **Appendix D**.

It will take 4 weeks to fully flush the site. Once remedial efforts have been completed Dugan will sample after to check the effectiveness of remediation. Dugan is hopeful remediation will be completed by 4/1/2025. In the event lab results do not meet closure standards Dugan will submit an additional C-141 and update the remediation plan with a new target date for closure.

Closure Standard

Based on Dugan's research conducted during the site characterization preparation Dugan has determined the following:

There are no significant water courses within 300 feet of spill boundary. See **Appendix (Map 2 and Map 6)**

The site is not within 200 feet of a lakebed, play or sinkhole. See **Appendix A (Map 2 & Map 6)**

The site is not located within 300 feet of a home, school, hospital, institution or church. See **Appendix A (Map 7)**

There are no springs or domestic water wells within 500 feet of the site. See **Appendix A (Map 7)** also see **Appendix B (Table 3)**

No other water wells were identified within 1,000 feet of the site. See **Appendix A (Map 2)**

The site is not located in a municipal boundary or municipal freshwater field. See **Appendix A (Map 7)**

The spill did not occur within a 100 year flood plain. See **Appendix A (Map 4)**

The spill did not occur above an underground mine. See **Appendix A (Map 5)**

The spill did not occur within 300 feet of a wetland. See **Appendix A (Map 8)**

The site is not located in an unstable area, such as karst geology.

After conducting the site assessment and estimating the depth to groundwater Dugan has determined the correct closure standard for closure be set to the most stringent, due to a lack of actual water data at the site (**Appendix B:Table 2)**

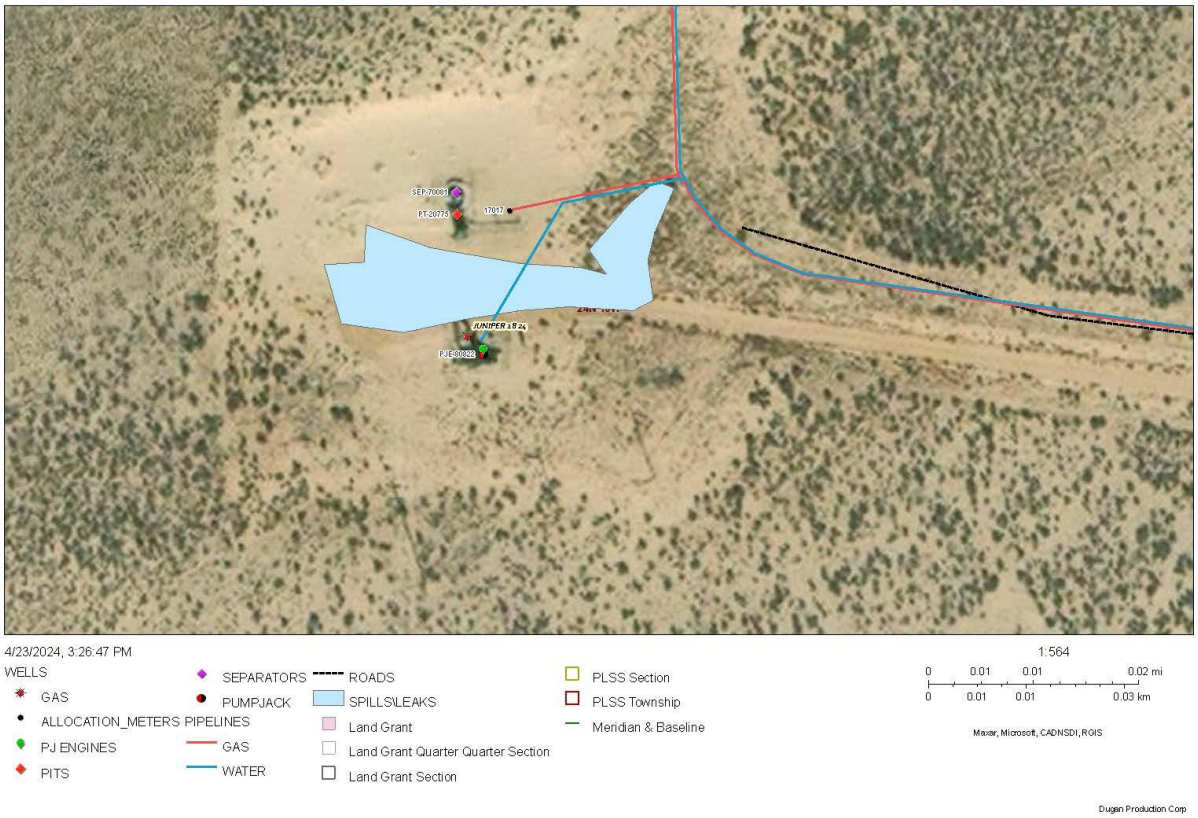
Photo Documentation

Dugan is submitting photos of the site taken while conducting soil sampling. A collection of these photos is included in **appendix C** found at the end of this report.

Appendix A: Maps and Site Diagrams

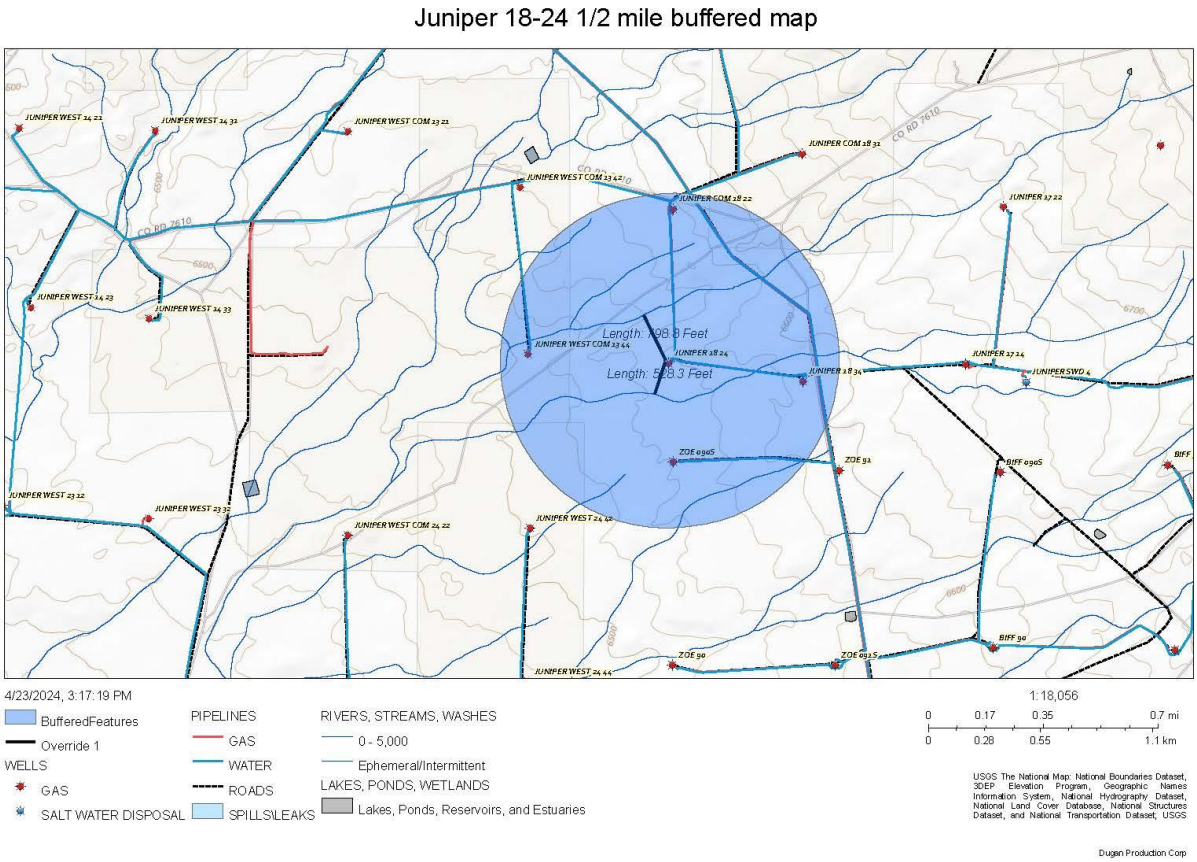
Map 1: Scaled Site Diagram

Juniper 18 24 Site Diagram



Appendix A: Maps and Site Diagrams

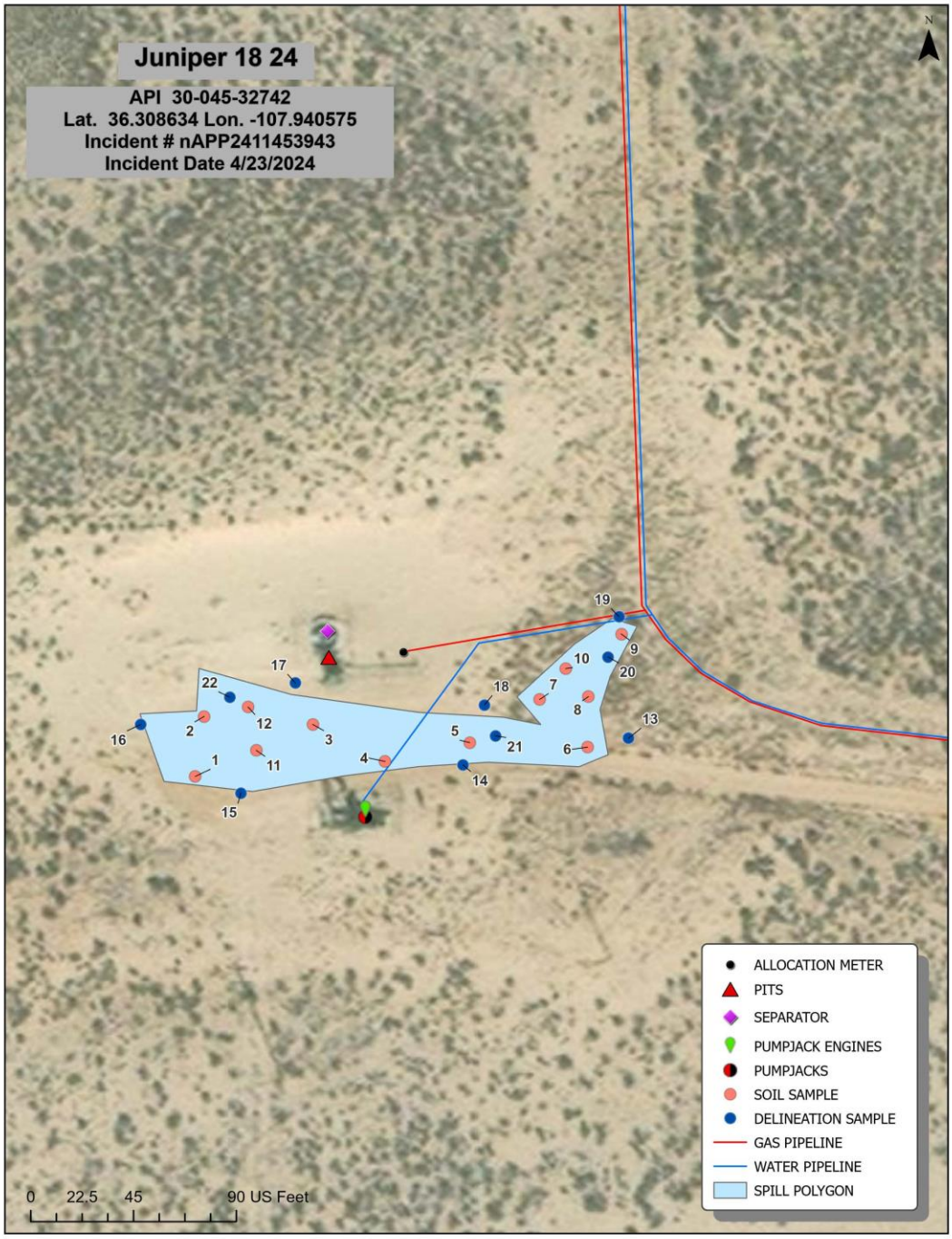
Map 2: Water Course Proximity Map



Map 3: Sampling Diagram

6

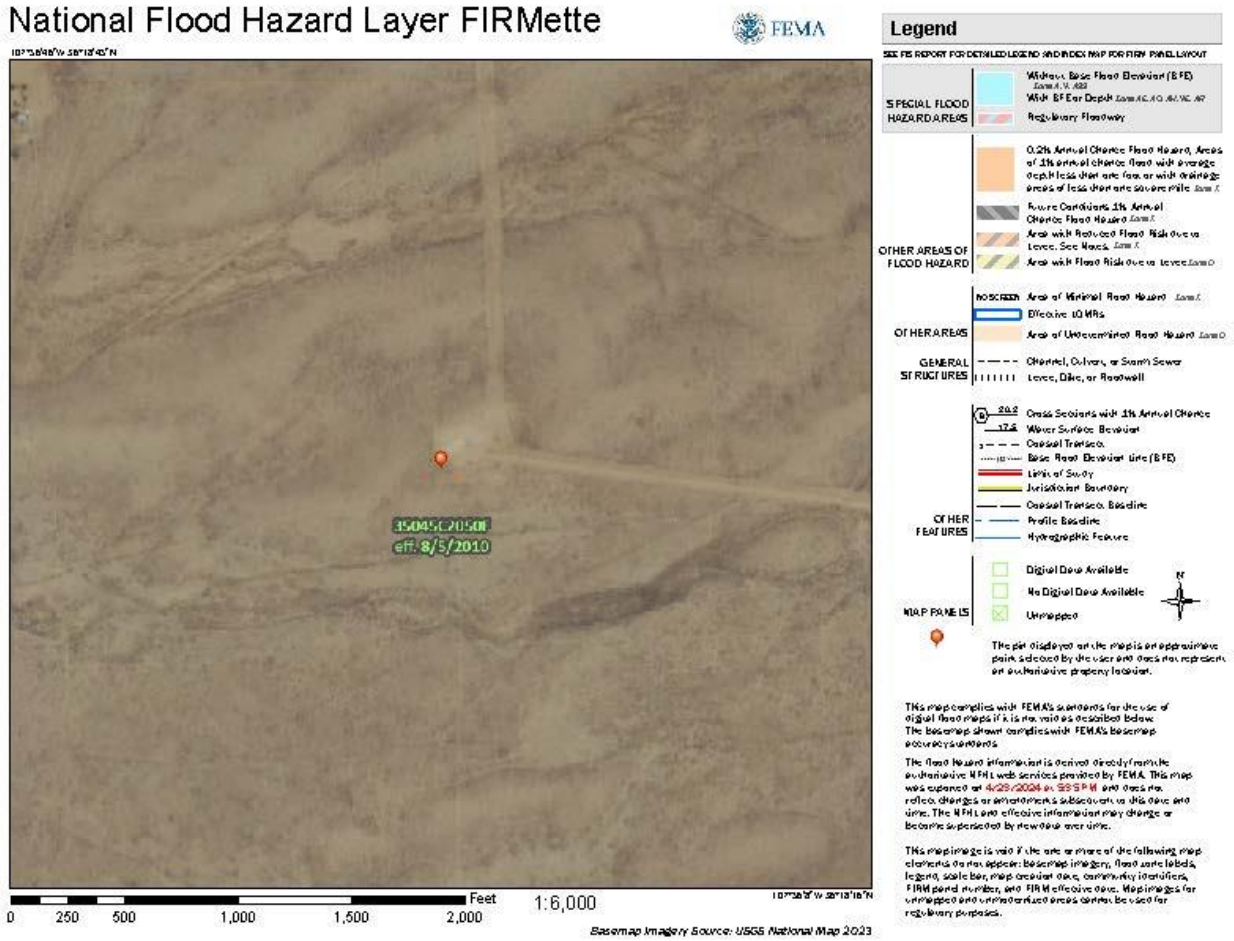
Appendix A: Maps and Site Diagrams



This map shows the location where each sample was collected. Soil samples were 5-point composite samples. Delineation samples were point samples collected at depths of 2' and 4'.

Map 4: Flood Plain Map

Appendix A: Maps and Site Diagrams



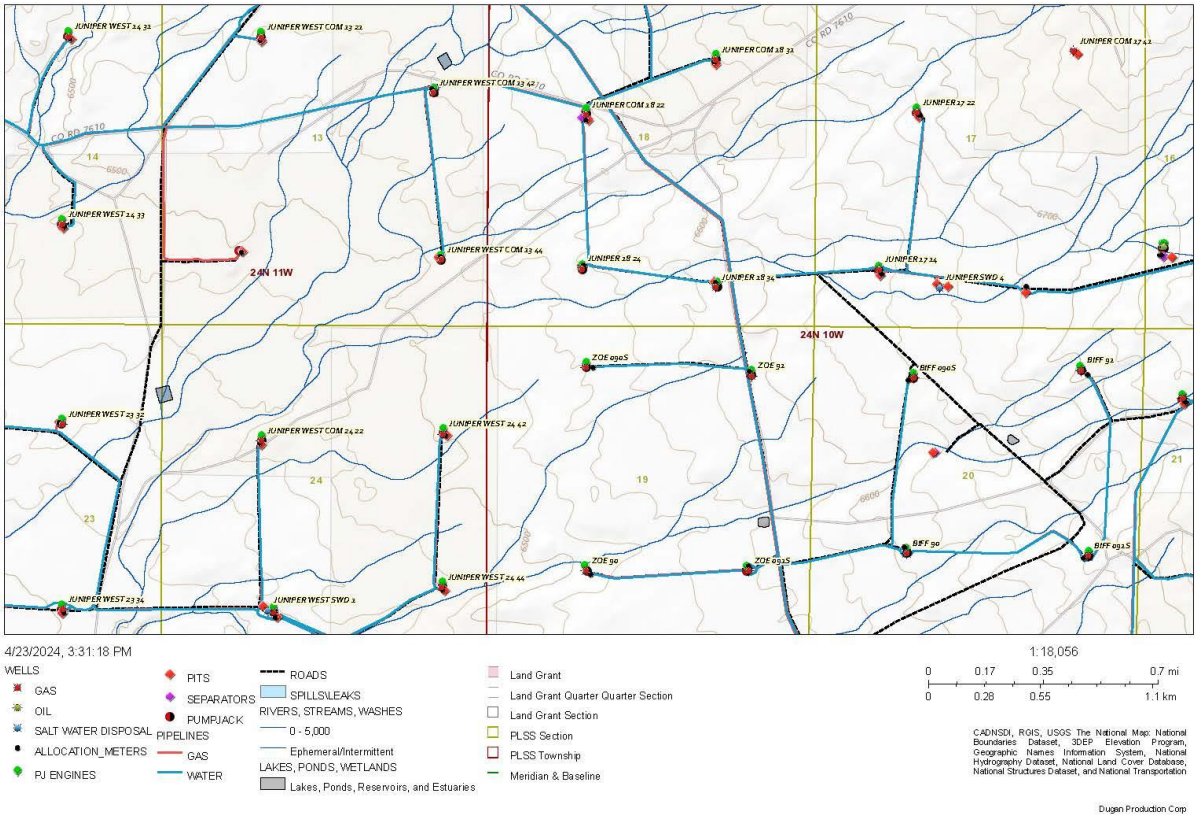
Map 5: Underground Mine Map

Appendix A: Maps and Site Diagrams

Appendix A: Maps and Site Diagrams

Map 6: Topo map of Juniper 18 24 Area

Juniper 18 24 Topo View



4/23/2024, 3:31:18 PM

1:18,056

0 0.17 0.35 0.7 mi
0 0.28 0.55 1.1 km

WELLS
- GAS
- OIL
- SALT WATER DISPOSAL
- ALLOCATION_METERS
- PJ ENGINES

PITS
SEPARATORS
PUMPJACK

PIPELINES
- GAS
- WATER

ROADS
SPILLS/LEAKS

RIVERS, STREAMS, WASHES
- 0 - 5,000
- Ephemeral/Intermittent

LAKES, PONDS, WETLANDS
- Lakes, Ponds, Reservoirs, and Estuaries

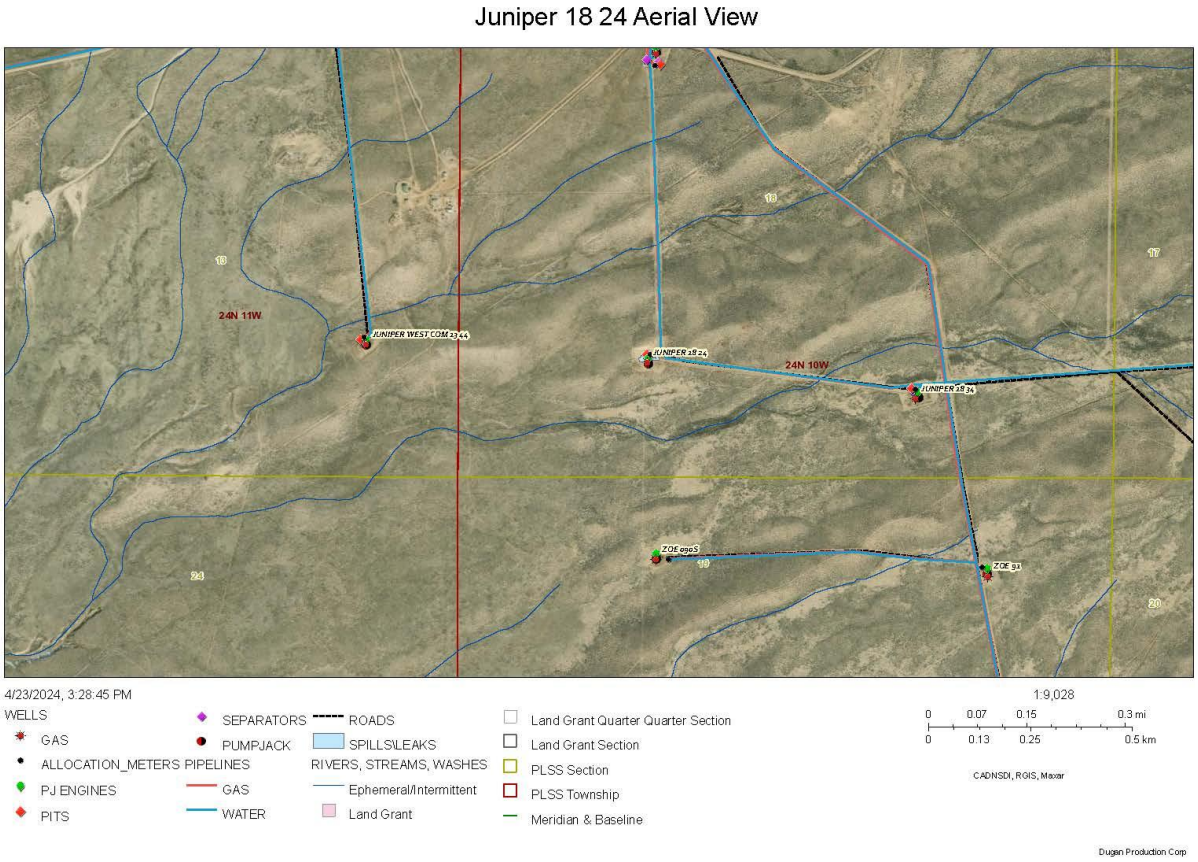
- Land Grant
- Land Grant Quarter Quarter Section
- Land Grant Section
- PLSS Section
- PLSS Township
- Meridian & Baseline

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

Dugan Production Corp

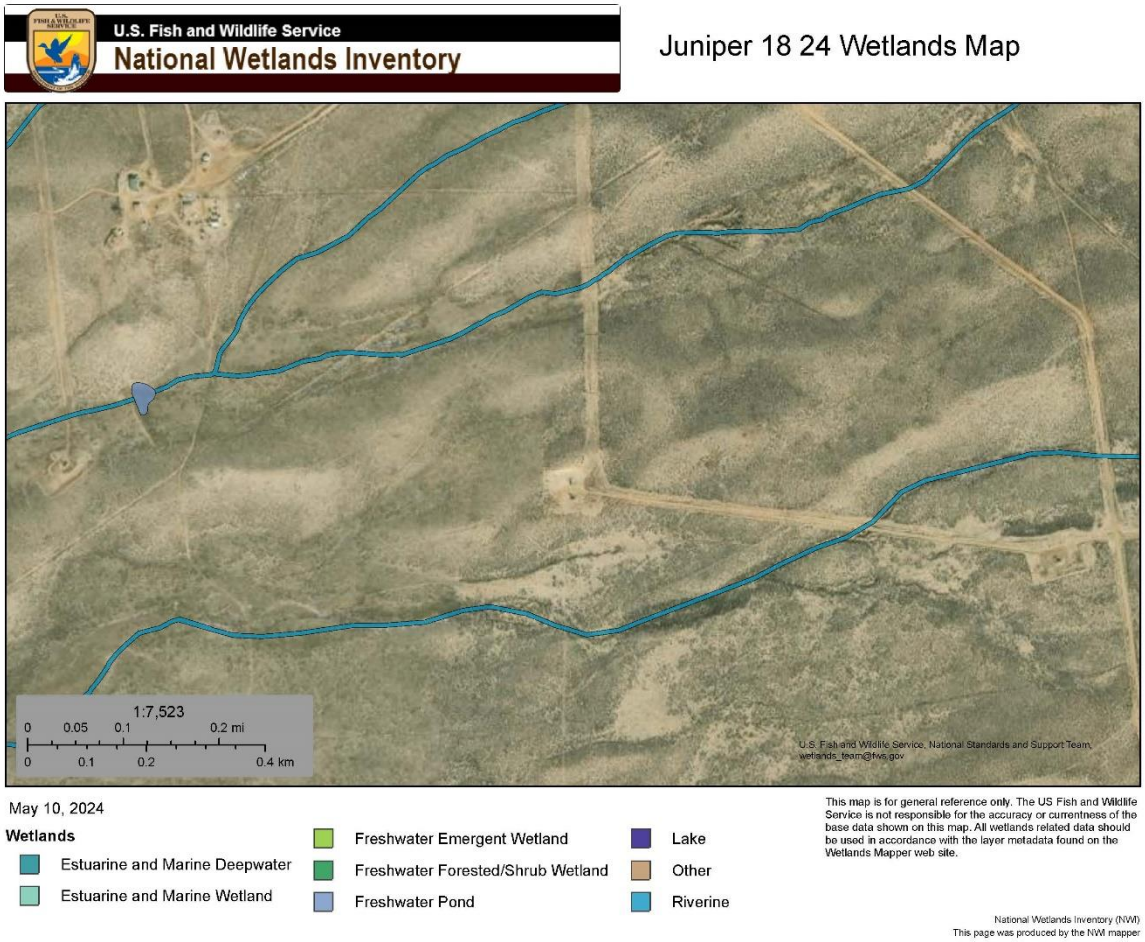
Appendix A: Maps and Site Diagrams

Map 7: Aerial View of Juniper 18 24 Area



Appendix A: Maps and Site Diagrams

Map 8: Wetlands Map



Appendix A: Maps and Site Diagrams

Map 9: Multi-Point Vertical Delineation Point

Appendix B: Tables and Figures

Table 1: Soil Sampling Results

Juniper 18-24					
Lab Results Table			Results		
Sample #	Map 3: ID	Depth Sampled (feet BGS)	Chlorides (mg/kg)	TPH (mg/kg)	BTEX (mg/kg)
1	1	0	2590	ND	ND
2	2	0	2650	ND	ND
3	3	0	4230	ND	ND
4	4	0	4940	ND	ND
5	5	0	4050	ND	ND
6	6	0	2390	ND	ND
7	7	0	1580	ND	ND
8	8	0	1460	ND	ND
9	9	0	1570	ND	ND
10	10	0	508	ND	ND
11	11	0	3220	ND	ND
12	12	0	6980	136.1	ND
13	13	2	ND	ND	ND
14	13	4	ND	ND	ND
15	14	2	ND	ND	ND
16	14	4	ND	ND	ND
17	15	2	ND	ND	ND
18	15	4	ND	ND	ND
19	16	2	ND	ND	ND
20	16	4	ND	ND	ND
21	17	2	ND	ND	ND
22	17	4	56	ND	ND
23	18	2	ND	ND	ND
24	18	4	37	ND	ND
25	19	2	ND	ND	ND
26	19	4	ND	ND	ND
27	20	2	154	ND	ND
28	20	4	ND	ND	ND
29	21	2	ND	ND	ND
30	21	4	ND	ND	ND
31	22	2	ND	ND	ND
32	22	4	34.6	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 B: Tables and Figures

Table 2: Proposed Closure Standard

After completing the site characterization process Dugan has identified the highlighted section as the standard for closure at the Juniper 18-24.

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Appendix B: Tables and Figures

Table 3: Water well date

POD Number	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column	
SJ 04008 POD1	34	24N	11W	230590	4017663	1000			
SJ 04008 POD2	33	24N	11W	230609	4018844	540	100	440	Average Depth to Water (feet)
SJ 01713	33	24N	10W	239936	4017203	373			326.3333333
SJ 01714	36	24N	10W	244334	4017107	442	284	158	
SJ 03141	29	24N	10W	237520	4019956	640	595	45	

This table shows water well data from Township 24 North and Ranges 10 and 11 West. The data was sourced from the New Mexico Office of the State Engineer iWaters database.

Appendix C: Photo Documentation

Juniper 18-24 spill location near the source of the spill.

Appendix C: Photo Documentation

Spill flow area at the Juniper 18-24 showing where produced water flowed and collected on well location access road.

Appendix C: Photo Documentation

Picture showing where produced water flowed on the well location. The white is indicative of high levels of chlorides present in the soil.

Appendix C: Photo Documentation

More signs of contamination and wet soil at the Juniper 18-24.

Appendix C: Photo Documentation

Area north of Juniper 18-24 pumping unit showing discolored and wet soil.

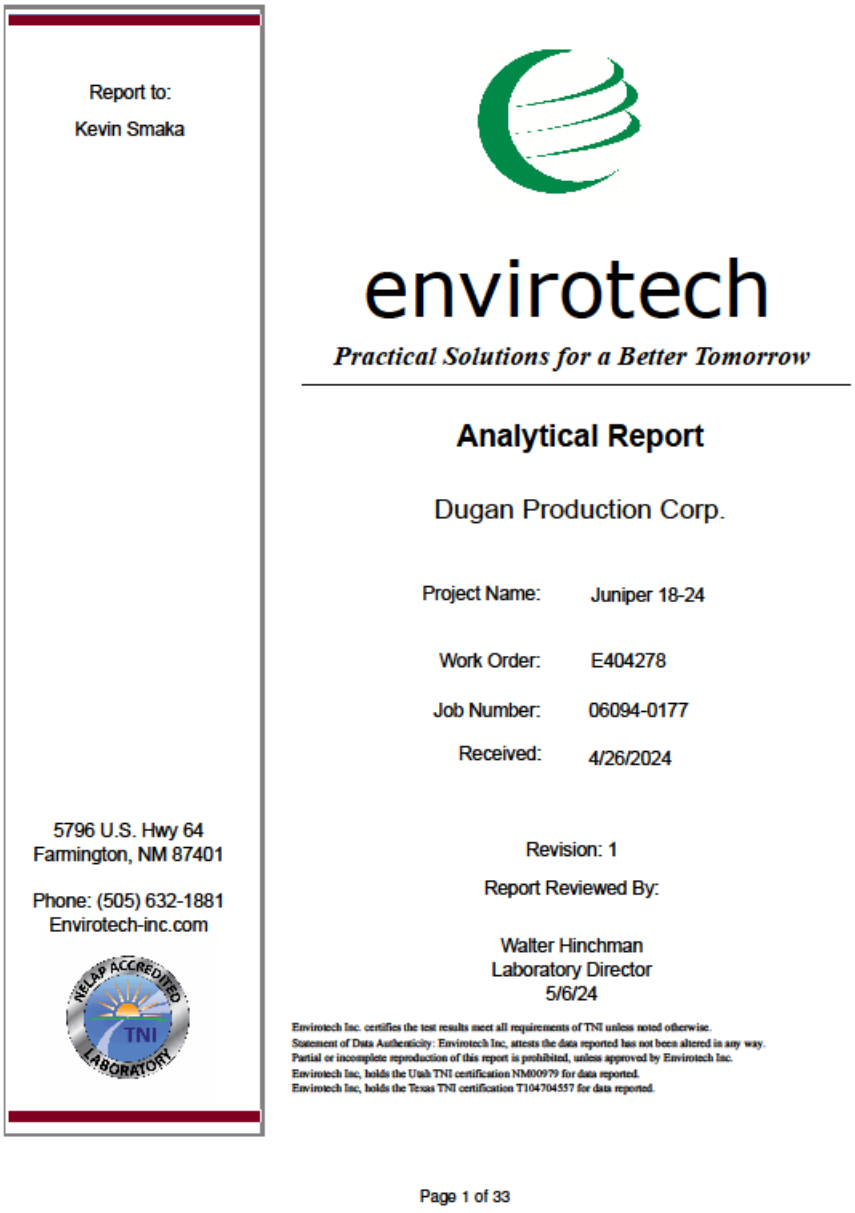
Appendix C: Photo Documentation

A large area view showing the general condition of the location following the spill.

Appendix C: Photo Documentation

Photo taken from the west end of the location showing the western most reaches of the spill.

Appendix D: Lab Results



Report to:
Kevin Smaka

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Juniper 18-24

Work Order: E404278

Job Number: 06094-0177

Received: 4/26/2024

Revision: 1

Report Reviewed By:

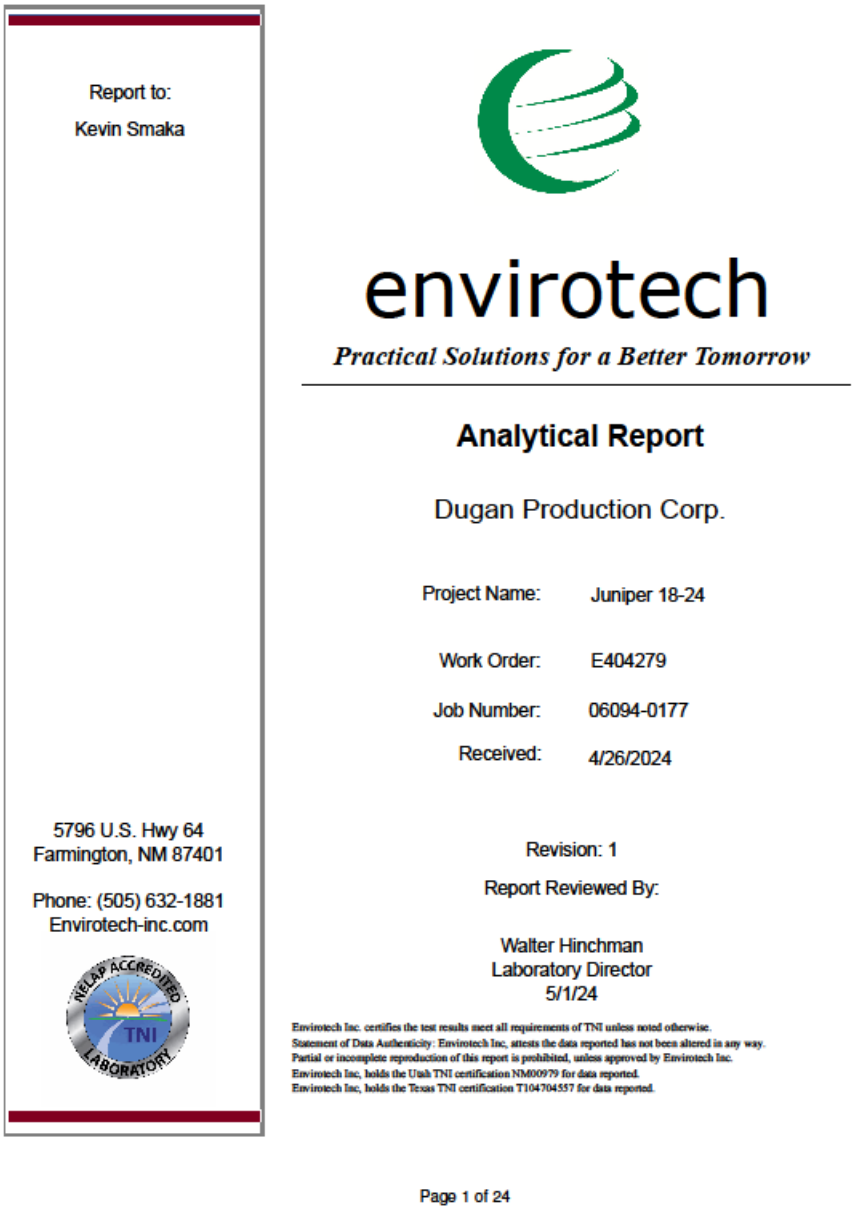
Walter Hinchman
Laboratory Director
5/6/24

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

Page 1 of 33

Note: Double Click image to open PDF

Appendix D: Lab Results



Report to:
Kevin Smaka

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Juniper 18-24

Work Order: E404279

Job Number: 06094-0177

Received: 4/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/1/24

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

Page 1 of 24

Note: Double click image to open PDF

Appendix D: Lab Results

SAR Lab Results

Report to:
Kevin Smaka

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name:	Juniper 18-24
Work Order:	E405318
Job Number:	06094-0177
Received:	5/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/4/24

Appendix D: Lab Results

Report to:
Kevin Smaka

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name:	Juniper 18-24
Work Order:	E407131
Job Number:	06094-0177
Received:	7/16/2024

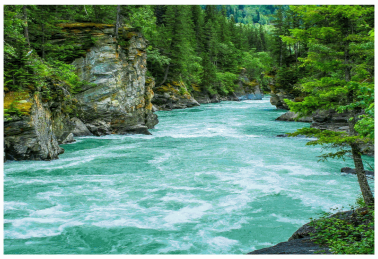
Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/22/24

Report to:

Kevin Smaka



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Juniper 18-24

Work Order: E404278

Job Number: 06094-0177

Received: 4/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/6/24

Date Reported: 5/6/24

Kevin Smaka
PO Box 420
Farmington, NM 87499

Project Name: Juniper 18-24
Workorder: E404278
Date Received: 4/26/2024 2:46:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/26/2024 2:46:00PM, under the Project Name: Juniper 18-24.

The analytical test results summarized in this report with the Project Name: Juniper 18-24 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
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	05/06/24 12:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
1	E404278-01A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
2	E404278-02A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
3	E404278-03A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
4	E404278-04A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
5	E404278-05A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
6	E404278-06A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
7	E404278-07A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
8	E404278-08A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
9	E404278-09A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
10	E404278-10A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
11	E404278-11A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
12	E404278-12A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
13	E404278-13A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
14	E404278-14A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
15	E404278-15A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
16	E404278-16A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
17	E404278-17A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
18	E404278-18A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
19	E404278-19A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
20	E404278-20A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

1

E404278-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*99.9 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**2590**	40.0	2	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

2

E404278-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**2650**	40.0	2	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

3

E404278-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*99.3 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**4230**	40.0	2	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

4

E404278-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.2 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.2 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**4940**	40.0	2	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

5

E404278-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**4050**	40.0	2	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

6

E404278-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**2390**	40.0	2	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

7

E404278-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**1580**	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

8

E404278-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**1460**	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

9

E404278-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.9 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.9 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**1570**	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

10

E404278-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	05/03/24	
Ethylbenzene	ND	0.0250	1	04/29/24	05/03/24	
Toluene	ND	0.0250	1	04/29/24	05/03/24	
o-Xylene	ND	0.0250	1	04/29/24	05/03/24	
p,m-Xylene	ND	0.0500	1	04/29/24	05/03/24	
Total Xylenes	ND	0.0250	1	04/29/24	05/03/24	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*04/29/24*	*05/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*04/29/24*	*05/03/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/29/24*	*05/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	05/03/24	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*04/29/24*	*05/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*04/29/24*	*05/03/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/29/24*	*05/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**508**	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

11

E404278-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*99.7 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**3220**	40.0	2	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

12

E404278-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	**49.3**	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	**86.8**	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	**6980**	100	5	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

13

E404278-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

14

E404278-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

15

E404278-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

16

E404278-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

17

E404278-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.8 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.8 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

18

E404278-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*70-130*	*04/29/24*	*04/30/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

19

E404278-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	05/01/24	
Ethylbenzene	ND	0.0250	1	04/29/24	05/01/24	
Toluene	ND	0.0250	1	04/29/24	05/01/24	
o-Xylene	ND	0.0250	1	04/29/24	05/01/24	
p,m-Xylene	ND	0.0500	1	04/29/24	05/01/24	
Total Xylenes	ND	0.0250	1	04/29/24	05/01/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*05/01/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	05/01/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*05/01/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

20

E404278-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Benzene	ND	0.0250	1	04/29/24	05/01/24	
Ethylbenzene	ND	0.0250	1	04/29/24	05/01/24	
Toluene	ND	0.0250	1	04/29/24	05/01/24	
o-Xylene	ND	0.0250	1	04/29/24	05/01/24	
p,m-Xylene	ND	0.0500	1	04/29/24	05/01/24	
Total Xylenes	ND	0.0250	1	04/29/24	05/01/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*05/01/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2418016
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	05/01/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*	*70-130*	*04/29/24*	*05/01/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/29/24*	*05/01/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2418005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	05/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	05/01/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*04/29/24*	*05/01/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2418023
Chloride	ND	20.0	1	04/29/24	04/30/24	

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2418016-BLK1)									Prepared: 04/29/24 Analyzed: 05/03/24
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: Bromofluorobenzene	*0.561*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: Toluene-d8	*0.525*		*0.500*		*105*	*70-130*			
LCS (2418016-BS1)									Prepared: 04/29/24 Analyzed: 04/30/24
Benzene	2.38	0.0250	2.50		95.2	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.3	70-130			
Toluene	2.41	0.0250	2.50		96.4	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	5.03	0.0500	5.00		101	70-130			
Total Xylenes	7.53	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	*0.555*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.484*		*0.500*		*96.7*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
Matrix Spike (2418016-MS1)				**Source: E404278-07**					Prepared: 04/29/24 Analyzed: 05/03/24
Benzene	2.37	0.0250	2.50	ND	94.7	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135			
Toluene	2.43	0.0250	2.50	ND	97.3	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.7	43-135			
p,m-Xylene	4.93	0.0500	5.00	ND	98.6	43-135			
Total Xylenes	7.42	0.0250	7.50	ND	99.0	43-135			
Surrogate: Bromofluorobenzene	*0.565*		*0.500*		*113*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			
Matrix Spike Dup (2418016-MSD1)				**Source: E404278-07**					Prepared: 04/29/24 Analyzed: 05/03/24
Benzene	2.39	0.0250	2.50	ND	95.6	48-131	0.967	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.6	45-135	1.29	27	
Toluene	2.45	0.0250	2.50	ND	98.0	48-130	0.676	24	
o-Xylene	2.49	0.0250	2.50	ND	99.6	43-135	0.0602	27	
p,m-Xylene	4.94	0.0500	5.00	ND	98.8	43-135	0.213	27	
Total Xylenes	7.43	0.0250	7.50	ND	99.1	43-135	0.121	27	
Surrogate: Bromofluorobenzene	*0.546*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.5*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2418016-BLK1)									Prepared: 04/29/24 Analyzed: 05/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.561*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: Toluene-d8	*0.525*		*0.500*		*105*	*70-130*			
LCS (2418016-BS2)									Prepared: 04/29/24 Analyzed: 04/30/24
Gasoline Range Organics (C6-C10)	58.7	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	*0.561*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.478*		*0.500*		*95.6*	*70-130*			
Surrogate: Toluene-d8	*0.524*		*0.500*		*105*	*70-130*			
Matrix Spike (2418016-MS2)				**Source: E404278-07**					Prepared: 04/29/24 Analyzed: 04/30/24
Gasoline Range Organics (C6-C10)	58.4	20.0	50.0	ND	117	70-130			
Surrogate: Bromofluorobenzene	*0.552*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.5*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
Matrix Spike Dup (2418016-MSD2)				**Source: E404278-07**					Prepared: 04/29/24 Analyzed: 04/30/24
Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	2.59	20	
Surrogate: Bromofluorobenzene	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.5*	*70-130*			
Surrogate: Toluene-d8	*0.528*		*0.500*		*106*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2418005-BLK1)									Prepared: 04/29/24 Analyzed: 04/30/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.9*		*50.0*		*106*	*50-200*			
LCS (2418005-BS1)									Prepared: 04/29/24 Analyzed: 04/30/24
Diesel Range Organics (C10-C28)	292	25.0	250		117	38-132			
Surrogate: n-Nonane	*51.9*		*50.0*		*104*	*50-200*			
Matrix Spike (2418005-MS1)				**Source: E404278-02**					Prepared: 04/29/24 Analyzed: 04/30/24
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	*48.8*		*50.0*		*97.7*	*50-200*			
Matrix Spike Dup (2418005-MSD1)				**Source: E404278-02**					Prepared: 04/29/24 Analyzed: 04/30/24
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	0.867	20	
Surrogate: n-Nonane	*48.5*		*50.0*		*97.0*	*50-200*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/6/2024 12:47:39PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2418023-BLK1)									Prepared: 04/29/24 Analyzed: 04/30/24
Chloride	ND	20.0							
LCS (2418023-BS1)									Prepared: 04/29/24 Analyzed: 04/30/24
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2418023-MS1)				**Source: E404278-07**					Prepared: 04/29/24 Analyzed: 04/30/24
Chloride	2030	20.0	250	1580	181	80-120			M2
Matrix Spike Dup (2418023-MSD1)				**Source: E404278-07**					Prepared: 04/29/24 Analyzed: 04/30/24
Chloride	1850	20.0	250	1580	108	80-120	9.33	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.

Definitions and Notes

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	05/06/24 12:47

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Dugan	Company:	Lab WO#: E404278	1D:	NM: X
Project Name: Juniper 18-24	Address:	Job Number: 03094-0177	2D:	CO:
Project Manager: Kevin Smaka	City, State, Zip:		3D:	UT:
Address:	Phone:		Std: X	TX:
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
10:00	4/26	S	1	1		1						X						
				2		2												
				3		3												
				4		4												
				5		5												
				6		6												
				7		7												
				8		8												
				9		9												
				10		10												

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: Kevin Smaka

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4.26	2:15	[signature]	4/26/24	1446
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.

envirotech

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Dugan	Company:	Lab WO# E404278	Job Number 06094-0177	1D 2D 3D Std: Std X	NM CO UT TX: NM X
Project Name: Juniper 18 24	Address:			
Project Manager:	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous:			
Email:				

Analysis and Method

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	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
10:00	4/26	S	1	11		11						X						
				12		12												
				13		13												
				14		14												
				15		15												
				16		16												
				17		17												
				18		18												
				19		19												
V	V	V	V	20		20						V						

Additional Instructions:

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

Sampled by: Kevin Smaka

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Kevin Smaka	4.26	2.45	AG	4/26/24	1446
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.

envirotech

Envirotech Analytical Laboratory

Printed: 4/30/2024 2:17:22PM

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:	04/26/24 14:46	Work Order ID:	E404278
Phone:	505-486-6207	Date Logged In:	04/26/24 16:29	Logged In By:	Alexa Michaels
Email:	kevin.smaka@duganproduction.com	Due Date:	05/02/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Project Juniper 18-24 has been separated into multiple WO due to high sample volume, WO are as follows: E404278 and E404279.

Client Instruction

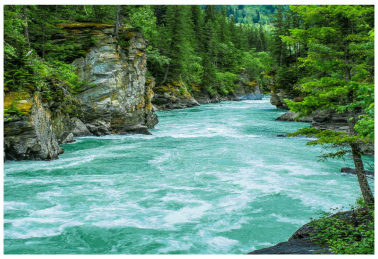
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Kevin Smaka



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Juniper 18-24

Work Order: E404279

Job Number: 06094-0177

Received: 4/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/1/24

Date Reported: 5/1/24

Kevin Smaka
PO Box 420
Farmington, NM 87499

Project Name: Juniper 18-24
Workorder: E404279
Date Received: 4/26/2024 2:46:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/26/2024 2:46:00PM, under the Project Name: Juniper 18-24.

The analytical test results summarized in this report with the Project Name: Juniper 18-24 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
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	05/01/24 08:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
21	E404279-01A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
22	E404279-02A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
23	E404279-03A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
24	E404279-04A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
25	E404279-05A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
26	E404279-06A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
27	E404279-07A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
28	E404279-08A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
29	E404279-09A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
30	E404279-10A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
31	E404279-11A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.
32	E404279-12A	Soil	04/26/24	04/26/24	Glass Jar, 2 oz.

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

21

E404279-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.1 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.7 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane		*75.9 %*	*50-200*	*04/29/24*	*04/29/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

22

E404279-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane		*72.3 %*	*50-200*	*04/29/24*	*04/29/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	**56.0**	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

23

E404279-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane		*76.3 %*	*50-200*	*04/29/24*	*04/29/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

24

E404279-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*73.7 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	**37.0**	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

25

E404279-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.4 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*75.0 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

26

E404279-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*74.4 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

27

E404279-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*74.8 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	**154**	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

28

E404279-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*72.9 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

29

E404279-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*73.1 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

30

E404279-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*	*70-130*	*04/29/24*	*04/29/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*73.5 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

31

E404279-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*72.1 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	ND	20.0	1	04/29/24	04/30/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

32

E404279-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Benzene	ND	0.0250	1	04/29/24	04/30/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/30/24	
Toluene	ND	0.0250	1	04/29/24	04/30/24	
o-Xylene	ND	0.0250	1	04/29/24	04/30/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/30/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/30/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.0 %*	*70-130*	*04/29/24*	*04/30/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2418006
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/30/24	
Surrogate: n-Nonane		*73.3 %*	*50-200*	*04/29/24*	*04/30/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2418031
Chloride	**34.6**	20.0	1	04/29/24	04/30/24	

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

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 (2418013-BLK1)									Prepared: 04/29/24 Analyzed: 04/29/24
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	*7.41*		*8.00*		*92.7*	*70-130*			
LCS (2418013-BS1)									Prepared: 04/29/24 Analyzed: 04/30/24
Benzene	4.81	0.0250	5.00		96.1	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.78	0.0250	5.00		95.5	70-130			
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130			
Total Xylenes	14.5	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.37*		*8.00*		*92.1*	*70-130*			
Matrix Spike (2418013-MS1)				**Source: E404269-04**					Prepared: 04/29/24 Analyzed: 04/30/24
Benzene	5.07	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133			
Toluene	5.08	0.0250	5.00	ND	102	61-130			
o-Xylene	5.03	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.41*		*8.00*		*92.6*	*70-130*			
Matrix Spike Dup (2418013-MSD1)				**Source: E404269-04**					Prepared: 04/29/24 Analyzed: 04/30/24
Benzene	5.43	0.0250	5.00	ND	109	54-133	6.79	20	
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	6.73	20	
Toluene	5.44	0.0250	5.00	ND	109	61-130	6.72	20	
o-Xylene	5.38	0.0250	5.00	ND	108	63-131	6.81	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	6.62	20	
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131	6.69	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.46*		*8.00*		*93.3*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

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 (2418013-BLK1)									Prepared: 04/29/24 Analyzed: 04/29/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.16*		*8.00*		*102*	*70-130*			
LCS (2418013-BS2)									Prepared: 04/29/24 Analyzed: 04/29/24
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.86*		*8.00*		*98.2*	*70-130*			
Matrix Spike (2418013-MS2)				**Source: E404269-04**					Prepared: 04/29/24 Analyzed: 04/29/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
Matrix Spike Dup (2418013-MSD2)				**Source: E404269-04**					Prepared: 04/29/24 Analyzed: 04/29/24
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	4.93	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.89*		*8.00*		*98.6*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2418006-BLK1)									Prepared: 04/29/24 Analyzed: 04/29/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*37.7*		*50.0*		*75.4*	*50-200*			
LCS (2418006-BS1)									Prepared: 04/29/24 Analyzed: 04/29/24
Diesel Range Organics (C10-C28)	212	25.0	250		84.6	38-132			
Surrogate: n-Nonane	*36.7*		*50.0*		*73.5*	*50-200*			
Matrix Spike (2418006-MS1)				**Source: E404279-06**					Prepared: 04/29/24 Analyzed: 04/29/24
Diesel Range Organics (C10-C28)	211	25.0	250	ND	84.3	38-132			
Surrogate: n-Nonane	*36.5*		*50.0*		*72.9*	*50-200*			
Matrix Spike Dup (2418006-MSD1)				**Source: E404279-06**					Prepared: 04/29/24 Analyzed: 04/29/24
Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.6	38-132	1.50	20	
Surrogate: n-Nonane	*37.2*		*50.0*		*74.4*	*50-200*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	5/1/2024 8:58:07AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2418031-BLK1)									Prepared: 04/29/24 Analyzed: 04/29/24
Chloride	ND	20.0							
LCS (2418031-BS1)									Prepared: 04/29/24 Analyzed: 04/30/24
Chloride	248	20.0	250		99.3	90-110			
LCS Dup (2418031-BSD1)									Prepared: 04/29/24 Analyzed: 04/29/24
Chloride	256	20.0	250		102	90-110	3.04	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.

Definitions and Notes

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	05/01/24 08:58

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Dugan	Company:	Lab WO# E404279	Job Number 96094-0077	1D 2D 3D Std: X	NM: X CO UT TX
Project Name: Juniper 18 24	Address:			
Project Manager:	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	BGDOC - 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 Filtered	Lab Number	BGDOC - NM	Remarks
10:00	4/26	S	1	21	1	21	X	
				22	2	22		
				23	3	23		
				24	4	24		
				25	5	25		
				26	6	26		
				27	7	27		
				28	8	28		
				29	9	29		
				30	10	30		

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:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4-26	2:45		4/26/24	1446
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.

envirotech

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Devon	Company:	Lab WO# E404279	Job Number 00094-01777	1D 2D 3D Std: X
Project Name: Juniper 18 24	Address:			NM: X CO UT TX
Project Manager:	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 Filtered	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
10:00	4/26	S	1	31		1						X						
10:00	4/26	S	1	32		2						X						

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: Kevin Smaka

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Kevin Smaka	4-26	2:45		4/26/24	1446
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.

envirotech

Envirotech Analytical Laboratory

Printed: 4/30/2024 2:29:56PM

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:	04/26/24 14:46	Work Order ID:	E404279
Phone:	505-486-6207	Date Logged In:	04/26/24 16:31	Logged In By:	Alexa Michaels
Email:	kevin.smaka@duganproduction.com	Due Date:	05/03/24 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: Kevin Smaka
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

Project Juniper 18-24 has been separated into multiple WO due to high sample volume, WO are as follows: E404278 and E404279.

Client Instruction

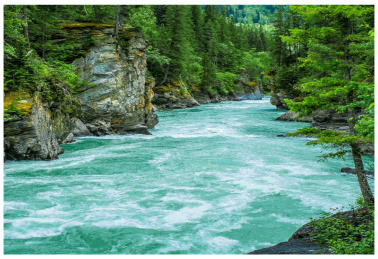
Signature of client authorizing changes to the COC or sample disposition.

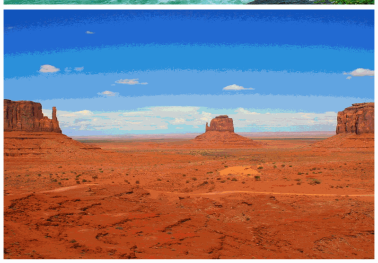
Date

envirotech Inc.

Report to:

Kevin Smaka





5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Juniper 18-24

Work Order: E405318

Job Number: 06094-0177

Received: 5/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/4/24

Date Reported: 6/4/24

Kevin Smaka
PO Box 420
Farmington, NM 87499

Project Name: Juniper 18-24
Workorder: E405318
Date Received: 5/22/2024 2:30:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/22/2024 2:30:00PM, under the Project Name: Juniper 18-24.

The analytical test results summarized in this report with the Project Name: Juniper 18-24 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
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	06/04/24 16:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
J 18 24 Point 12	E405318-01A	Soil	05/22/24	05/22/24	Glass Jar, 2 oz.
J 18 24 Up Hill Point	E405318-02A	Soil	05/22/24	05/22/24	Glass Jar, 2 oz.

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/4/2024 4:24:56PM

J 18 24 Point 12

E405318-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421169
Chloride	**2810**	40.0	2	05/24/24	05/24/24	
Soil Paste (SP) Leaching Procedure	mg/L	mg/L	Analyst: JL			Batch: 2421138
Calcium	**90.6**	10.0	10	05/24/24	05/31/24	
Magnesium	**107**	10.0	10	05/24/24	05/31/24	
Sodium	**352**	20.0	10	05/24/24	05/31/24	
Sodium Absorption Ratio (CALC)	**5.93**		1	06/04/24	06/04/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/4/2024 4:24:56PM

J 18 24 Up Hill Point

E405318-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421169
Chloride	ND	20.0	1	05/24/24	05/24/24	
Soil Paste (SP) Leaching Procedure	mg/L	mg/L	Analyst: JL			Batch: 2421138
Calcium	**58.2**	1.00	1	05/24/24	05/30/24	
Magnesium	**32.3**	1.00	1	05/24/24	05/30/24	
Sodium	**6.22**	2.00	1	05/24/24	05/30/24	
Sodium Absorption Ratio (CALC)	**0.168**		1	06/04/24	06/04/24	

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/4/2024 4:24:56PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2421169-BLK1)									Prepared: 05/24/24 Analyzed: 05/24/24
Chloride	ND	20.0							
LCS (2421169-BS1)									Prepared: 05/24/24 Analyzed: 05/24/24
Chloride	255	20.0	250		102	90-110			
LCS Dup (2421169-BSD1)									Prepared: 05/24/24 Analyzed: 05/24/24
Chloride	255	20.0	250		102	90-110	0.0607	20	

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	6/4/2024 4:24:56PM

Soil Paste (SP) Leaching Procedure

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	
Blank (2421138-BLK1)									Prepared: 05/24/24 Analyzed: 05/30/24
Calcium	ND	1.00							
Magnesium	ND	1.00							
Sodium	ND	2.00							
LCS (2421138-BS1)									Prepared: 05/24/24 Analyzed: 05/30/24
Calcium	50.0	1.00	50.0		100	80-120			
Magnesium	55.9	1.00	50.0		112	80-120			
Sodium	20.1	2.00	20.0		101	80-120			
Matrix Spike (2421138-MS1)				**Source: E405310-01**					Prepared: 05/24/24 Analyzed: 05/30/24
Calcium	108	1.00	50.0	60.5	95.5	75-125			
Magnesium	64.1	1.00	50.0	16.0	96.3	75-125			
Sodium	1690	200	20.0	1530	775	75-125			M4
Matrix Spike Dup (2421138-MSD1)				**Source: E405310-01**					Prepared: 05/24/24 Analyzed: 05/30/24
Calcium	111	1.00	50.0	60.5	100	75-125	2.19	20	
Magnesium	65.0	1.00	50.0	16.0	98.0	75-125	1.35	20	
Sodium	1790	200	20.0	1530	NR	75-125	6.04	20	M4

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.

Definitions and Notes

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	06/04/24 16:24

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

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

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

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Dugan Production	Company: Dugan Production	Lab WO# E 405318	Job Number 06094-0177	1D 2D 3D Std: Std X	NM X CO UT TX
Project Name: Juniper 13 24	Address:			
Project Manager: Kevin Smaka	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous:			
Email:				

Analysis and Method

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	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	SAR	Remarks
1:00 pm	5/22/24	S	1	J 13 24 Point #12		1					✓					✓	SAR Test
1:00 pm	5/22/24	S	1	J 13 24 Up Hill Point		2					✓					✓	SAR Test

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 Wilson

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/22/24	2:30 PM		5/22/24	1430
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.

envirotech

Envirotech Analytical Laboratory

Printed: 5/24/2024 11:35:56AM

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:	05/22/24 14:30	Work Order ID:	E405318
Phone:	505-486-6207	Date Logged In:	05/23/24 07:31	Logged In By:	Angelina Pineda
Email:	kevin.smaka@duganproduction.com	Due Date:	05/29/24 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?	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

Client Instruction

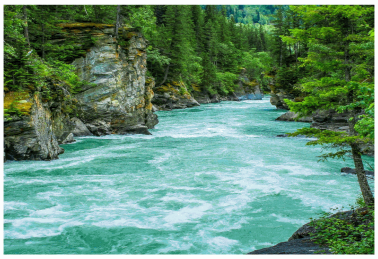
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Kevin Smaka



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Juniper 18-24

Work Order: E407131

Job Number: 06094-0177

Received: 7/16/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/22/24

Date Reported: 7/22/24

Kevin Smaka
PO Box 420
Farmington, NM 87499

Project Name: Juniper 18-24
Workorder: E407131
Date Received: 7/16/2024 3:00:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/16/2024 3:00:00PM, under the Project Name: Juniper 18-24.

The analytical test results summarized in this report with the Project Name: Juniper 18-24 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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	07/22/24 08:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Juniper 18-24 6" #1	E407131-01A	Soil	07/16/24	07/16/24	Glass Jar, 2 oz.
Juniper 18-24 12" #2	E407131-02A	Soil	07/16/24	07/16/24	Glass Jar, 2 oz.
Juniper 18-24 18" #3	E407131-03A	Soil	07/16/24	07/16/24	Glass Jar, 2 oz.
Juniper 18-24 24" #4	E407131-04A	Soil	07/16/24	07/16/24	Glass Jar, 2 oz.

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

Juniper 18-24 6" #1

E407131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Benzene	ND	0.0250	1	07/17/24	07/18/24	
Ethylbenzene	ND	0.0250	1	07/17/24	07/18/24	
Toluene	ND	0.0250	1	07/17/24	07/18/24	
o-Xylene	ND	0.0250	1	07/17/24	07/18/24	
p,m-Xylene	ND	0.0500	1	07/17/24	07/18/24	
Total Xylenes	ND	0.0250	1	07/17/24	07/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/24	07/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2429049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/18/24	
Surrogate: n-Nonane		*91.7 %*	*50-200*	*07/17/24*	*07/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2429051
Chloride	**364**	40.0	2	07/17/24	07/17/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

Juniper 18-24 12" #2

E407131-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Benzene	ND	0.0250	1	07/17/24	07/18/24	
Ethylbenzene	ND	0.0250	1	07/17/24	07/18/24	
Toluene	ND	0.0250	1	07/17/24	07/18/24	
o-Xylene	ND	0.0250	1	07/17/24	07/18/24	
p,m-Xylene	ND	0.0500	1	07/17/24	07/18/24	
Total Xylenes	ND	0.0250	1	07/17/24	07/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/24	07/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2429049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/18/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*07/17/24*	*07/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2429051
Chloride	**293**	20.0	1	07/17/24	07/17/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

Juniper 18-24 18" #3

E407131-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Benzene	ND	0.0250	1	07/17/24	07/18/24	
Ethylbenzene	ND	0.0250	1	07/17/24	07/18/24	
Toluene	ND	0.0250	1	07/17/24	07/18/24	
o-Xylene	ND	0.0250	1	07/17/24	07/18/24	
p,m-Xylene	ND	0.0500	1	07/17/24	07/18/24	
Total Xylenes	ND	0.0250	1	07/17/24	07/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/24	07/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2429049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/18/24	
Surrogate: n-Nonane		*95.3 %*	*50-200*	*07/17/24*	*07/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2429051
Chloride	**233**	20.0	1	07/17/24	07/18/24	

Sample Data

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

Juniper 18-24 24" #4

E407131-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Benzene	ND	0.0250	1	07/17/24	07/18/24	
Ethylbenzene	ND	0.0250	1	07/17/24	07/18/24	
Toluene	ND	0.0250	1	07/17/24	07/18/24	
o-Xylene	ND	0.0250	1	07/17/24	07/18/24	
p,m-Xylene	ND	0.0500	1	07/17/24	07/18/24	
Total Xylenes	ND	0.0250	1	07/17/24	07/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429050
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/24	07/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*07/17/24*	*07/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2429049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/18/24	
Surrogate: n-Nonane		*92.5 %*	*50-200*	*07/17/24*	*07/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2429051
Chloride	**437**	20.0	1	07/17/24	07/18/24	

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429050-BLK1)									Prepared: 07/17/24 Analyzed: 07/17/24
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	*7.10*		*8.00*		*88.8*	*70-130*			
LCS (2429050-BS1)									Prepared: 07/17/24 Analyzed: 07/17/24
Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.5	70-130			
Toluene	4.66	0.0250	5.00		93.2	70-130			
o-Xylene	4.55	0.0250	5.00		90.9	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	13.8	0.0250	15.0		92.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.06*		*8.00*		*88.2*	*70-130*			
LCS Dup (2429050-BSD1)									Prepared: 07/17/24 Analyzed: 07/17/24
Benzene	4.70	0.0250	5.00		94.1	70-130	1.41	20	
Ethylbenzene	4.66	0.0250	5.00		93.2	70-130	1.87	20	
Toluene	4.74	0.0250	5.00		94.8	70-130	1.67	20	
o-Xylene	4.65	0.0250	5.00		93.0	70-130	2.29	20	
p,m-Xylene	9.46	0.0500	10.0		94.6	70-130	1.73	20	
Total Xylenes	14.1	0.0250	15.0		94.1	70-130	1.92	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.38*		*8.00*		*92.3*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429050-BLK1)									Prepared: 07/17/24 Analyzed: 07/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
LCS (2429050-BS2)									Prepared: 07/17/24 Analyzed: 07/17/24
Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.6*	*70-130*			
LCS Dup (2429050-BSD2)									Prepared: 07/17/24 Analyzed: 07/17/24
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130	7.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.76*		*8.00*		*97.0*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429049-BLK1)									Prepared: 07/17/24 Analyzed: 07/17/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.2*		*50.0*		*104*	*50-200*			
LCS (2429049-BS1)									Prepared: 07/17/24 Analyzed: 07/17/24
Diesel Range Organics (C10-C28)	235	25.0	250		93.8	38-132			
Surrogate: n-Nonane	*54.8*		*50.0*		*110*	*50-200*			
Matrix Spike (2429049-MS1)				**Source: E407129-02**					Prepared: 07/17/24 Analyzed: 07/17/24
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132			
Surrogate: n-Nonane	*59.4*		*50.0*		*119*	*50-200*			
Matrix Spike Dup (2429049-MSD1)				**Source: E407129-02**					Prepared: 07/17/24 Analyzed: 07/17/24
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	0.353	20	
Surrogate: n-Nonane	*54.3*		*50.0*		*109*	*50-200*			

QC Summary Data

Dugan Production Corp.	Project Name:	Juniper 18-24	**Reported:**
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2024 8:57:48AM

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 (2429051-BLK1)									Prepared: 07/17/24 Analyzed: 07/17/24
Chloride	ND	20.0							
LCS (2429051-BS1)									Prepared: 07/17/24 Analyzed: 07/17/24
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2429051-MS1)				**Source: E407128-01**					Prepared: 07/17/24 Analyzed: 07/17/24
Chloride	358	20.0	250	100	103	80-120			
Matrix Spike Dup (2429051-MSD1)				**Source: E407128-01**					Prepared: 07/17/24 Analyzed: 07/17/24
Chloride	356	20.0	250	100	102	80-120	0.563	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.

Definitions and Notes

Dugan Production Corp.	Project Name:	Juniper 18-24	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	07/22/24 08:57

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Chain of Custody

Client Information	Invoice Information	Lab Use Only		TAT	State
Client: Dugan Production	Company: Dugan Production	Lab WO# E407131	Job Number 06094-0177	1D / 2D / 3D / Std: X (Std)	NM: X / CO / UT / TX
Project Name: Juniper 18-24	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, BGDOC - 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	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
1:00 PM	7/16/24	S	1	Juniper 18-24 6" #1		1						X						
"	"	"	1	Juniper 18-24 12" #2		2						X						
"	"	"	1	Juniper 18-24 18" #3		3						X						
"	"	"	1	Juniper 18-24 24" #4		4						X						
~~"~~	~~"~~	~~"~~	~~1~~			5												

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 Ulibarri

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
M R.U	7-16-24	2:00 PM.	Raina Lehmig	7/16/24	15:00

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.

envirotech

Page 14 of 15

Envirotech Analytical Laboratory

Printed: 7/16/2024 4:13:34PM

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:	07/16/24 15:00	Work Order ID:	E407131
Phone:	505-486-6207	Date Logged In:	07/16/24 15:28	Logged In By:	Noe Soto
Email:	kevin.smaka@duganproduction.com	Due Date:	07/23/24 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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 366543

QUESTIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 366543
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2411453943**
Incident Name	**NAPP2411453943 JUNIPER 18 #24 @ 30-045-32742**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-045-32742] JUNIPER 18 #024**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Juniper 18 #24
Date Release Discovered	04/23/2024
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: Corrosion | Pipeline (Any) | Produced Water | Released: 85 BBL | Recovered: 0 BBL | Lost: 85 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.*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 366543
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Tyra Feil Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 04/23/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 366543
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between ½ and 1 (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)	6980
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	09/01/2024
On what date will (or did) the final sampling or liner inspection occur	04/01/2025
On what date will (or was) the remediation complete(d)	05/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	5744
What is the estimated volume (in cubic yards) that will be reclaimed	17.7
What is the estimated surface area (in square feet) that will be remediated	5744
What is the estimated volume (in cubic yards) that will be remediated	17.7
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.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 366543
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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.)	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Yes
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*

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: 07/23/2024

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 366543
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 366543
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**337189**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/26/2024**
What was the (estimated) number of samples that were to be gathered	**32**
What was the sampling surface area in square feet	**5744**

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	No

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 366543

CONDITIONS

Operator:	OGRID:
DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	6515
	Action Number: 366543
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Dugan has 180-days (February 3, 2025) to submit to OCD its appropriate or final remediation closure report.	8/5/2024