

July 30, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

Arcturus 18 Fed 6H Flowline

Incident Number: nAPP2508641982

Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Closure Request* to document excavation and soil sampling activities associated with a produced water and crude oil release at the Arcturus 18 Fed 6H Flowline (Site). Based on the excavation activities and analytical results from the soil sampling events, Devon is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers nAPP2508641982.

BACKGROUND

The Site is located in Unit A, Section 18, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.664030°, -103.901092°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 27, 2025, a production flow line failed which resulted in the release of approximately 12 barrels (bbls) of produced water and 3 bbls of crude oil, no fluid was recovered. The release impacted an area off-pad approximately 8,264 square feet in size, 2,142 square feet of this was a pooled zone and approximately 6,122 square feet was overspray. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via the NMOCD Portal on March 27, 2025, and submitted a Release Notification Form C-141 on March 31, 2025. The release was assigned Incident Number nAPP2508641982. The Form C-141 can be referenced on the NMOCD Portal.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 01907, located approximately 554 feet north of the Site. The well was drilled to assess depth to water and has a reported depth to groundwater greater than 55 feet below ground surface (bgs) and a total depth of 55 feet bgs. The well was subsequently plugged and abandoned. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater.



All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 2,145 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is potentially underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Advanced Geophysics, a BLM approved third-party cave and karst contractor, conducted a desktop survey, aerial survey, and geophysical survey of the Site to assess for the presence or absence of karst features and/or unstable geology. In summary, the aerial and geophysical karst surveys did not identify any karst features within 200 meters of the release extent. Results of the geophysical study indicated a well-layered geologic system and no anomalies, consistent with air-filled subsurface voids, were found within the survey area, indicating stable ground that would not pose a safety concern or act as an immediate conduit to groundwater. Based on the desktop, aerial, and geophysical surveys completed at the Site, the Site does not appear to exhibit karst features or unstable geology and as such, those are not considered sensitive receptors as they relate to this Site. The detailed report provided by Advanced Geophysics is included in Appendix B.

Based on the results of the Site Characterization and the results of additional site-specific surveys indicating the absence of karst features an unstable geology, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On April 09, 2025, Ensolum personnel were onsite to delineate the extent of release as indicated by field screening and laboratory analytical results. Four delineation soil samples (SS01 through SS04) were collected from areas surrounding the release extent to verify the lateral extent of impacted soil at ground surface; lateral delineation soil samples SS01 and SS02 were advanced to a depth of 1-foot bgs and lateral delineation soil samples SS03 and SS04 were advanced to a depth of 0.5 feet bgs. Six boreholes (BH01 through BH06) were advanced via hand auger within the release extent to assess the vertical extent of impacted soil. Borehole BH01 was advanced to a depth of 7 feet bgs, borehole BH02 was advanced to a depth of 2 feet bgs, borehole BH03 was advanced to a depth of 3 feet bgs, and boreholes BH04 through BH06 were advanced to a depth of 0.5 feet bgs. Lateral and vertical delineation soil samples were field screened for chloride using Hach® Chloride QuanTab® test strips. Field screening



results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Photographic documentation of delineation activities is included in Appendix D.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from lateral delineation soil samples SS01 through SS04 were in compliance with the strictest Closure Criteria at ground surface. Laboratory analytical results for delineation soil samples collected from boreholes BH01 through BH06 indicated concentrations of TPH and/or chloride exceeded the reclamation requirement in the top 4 feet. Borehole sample BH01 was in compliance with the strictest Closure Criteria at a depth of 7 feet bgs, boreholes BH02 and BH03 were in compliance with the strictest Closure Criteria at a depth of 2 feet bgs and 3 feet bgs, respectively. Laboratory analytical results for boreholes BH04 through BH06 were in compliance with the strictest Closure Criteria at a depth of 0.5 feet bgs. Laboratory results are summarized in Table 1 and laboratory analytical reports are included in Appendix E.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

The excavation of impacted soil was completed utilizing a tracked excavator, loader, hydro-vac, and belly dump trucks. To direct excavation activities, soil was field screened for TPH utilizing a PetroFLAG® soil analyzer system and chloride utilizing test strips. The excavation depth was determined by delineation sampling to be 4 feet bgs. Photographic documentation of excavation activities is included in Appendix D.

Beginning on May 16, 2025, 5-point composite confirmation samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS43 were collected from the floor of the excavation at depths ranging from 0.5 feet bgs to 4 feet bgs. Composite soil samples SW01 through SW05 were collected from the sidewalls of the pooled zone excavation area at depths ranging from ground surface to 4 feet bgs. Sidewall soil samples collected from the overspray area were incorporated into the composite floor samples at a depth of 0.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

The final excavation extent measured approximately 8,597 square feet. A total of approximately 455 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Hobbs. The excavation extent and excavation soil sample locations are presented in Figure 3.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01 through FS43, collected at depths ranging from 0.5 feet bgs to 4 feet bgs, and for excavation sidewall samples SW01 through SW05, collected from depths ranging from ground surface to 4 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and in compliance with the reclamation requirement in the top



4 feet. Laboratory analytical results are summarized in Tables 2 and 3 and laboratory analytical reports are included as Appendix E.

RECLAMATION PLAN

The entire release occurred off pad in the pasture, and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH were applied to the top 4 feet of the subsurface that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan proposes reclamation of the excavated area:

- The excavation will be backfilled with locally sourced topsoil to match surrounding grade.
- Soil in the vicinity of the release includes: Berino loamy fine sand 0 to 3 percent slopes according
 to the United States Department of Agriculture (USDA) Natural Resources Conservation Service
 (NRCS) Web Soil Survey completed on April 28, 2025;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: BLM Seed Mix (2) for sand;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed
 pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture
 with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
 - o The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Seeding is anticipated to be completed in the Spring or Fall when temperatures and precipitation
 is most conducive for vegetation growth. In general, seeding should occur approximately one
 month after the last frost in the Spring up until approximately one month prior to the first fall frost.
 Regulatory agencies has recognized the optimal time to seed is between July and early
 September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent
 with local natural vegetation density. The Site will be inspected the following Fall to assess the
 success of regrowth. If necessary, an additional application of the pure live seed mixture will be
 applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD for final inspection and release.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 2025 release of produced water and crude oil. Following remediation efforts, 43 composite confirmation floor soil samples (FS01 through FS43) and five composite confirmation sidewall samples (SW01 though SW05) were collected. Laboratory analytical results for the excavation soil samples, collected from the final



excavation extent, indicated all COC concentrations were in compliance with Site Closure Criteria and with the reclamation requirement in the top 4 feet of soil. Based on the soil sample analytical results, no further remediation was required. Reclamation will be completed as described above.

Based on horizontal and vertical delineation sampling in accordance with the strictest Closure Criteria per NMOCD Table I, depth to groundwater greater than 55 feet bgs, and laboratory analytical results from confirmation soil sampling activities, Devon believes these remedial actions have been protective of human health, the environment, and groundwater. As such, Devon respectfully requests closure for Incident Numbers nAPP2508641982.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely, **Ensolum, LLC**

Ashley Giovengo Associate Principal Daniel R. Moir, PG

Senior Managing Geologist

cc: Jim Raley, Devon

BLM

Appendices:

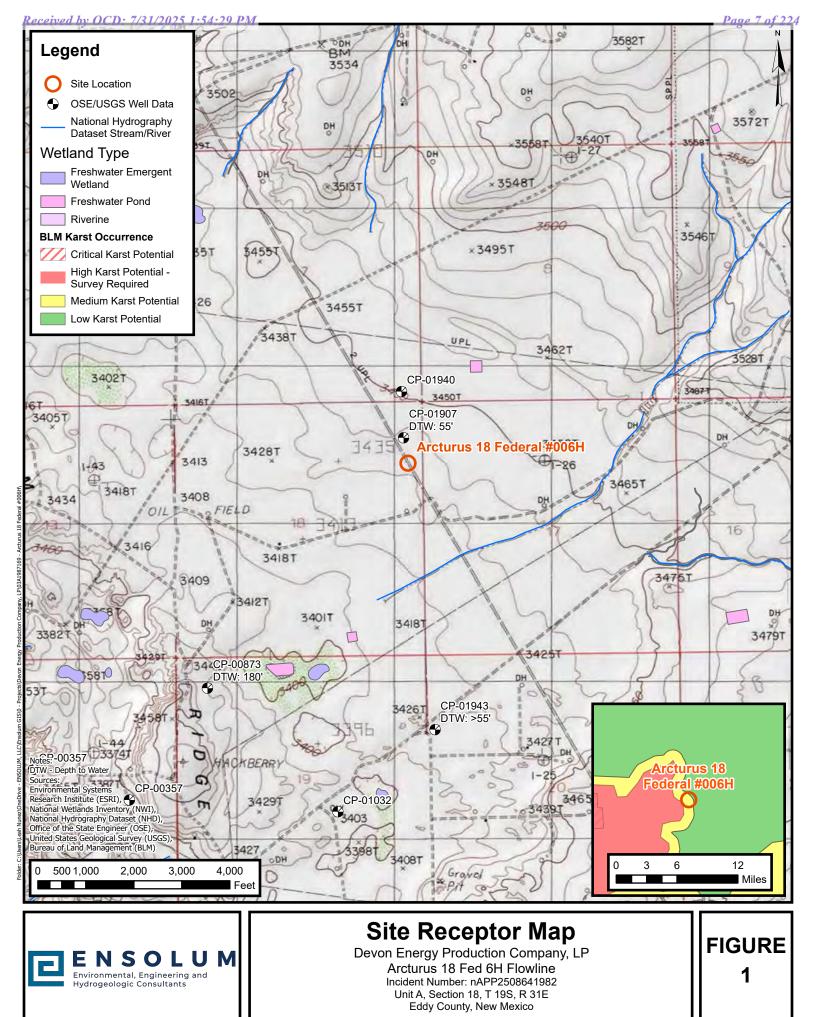
Appendix F

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1 Table 2	Soil Sample Analytical Results (Delineation Soil Samples) Soil Sample Analytical Results (Confirmation Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Table 4	Soil Sample Analytical Results (Backfill Soil Samples)
Appendix A	Well Log and Record
Appendix B	Environmental Karst Study Report
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation

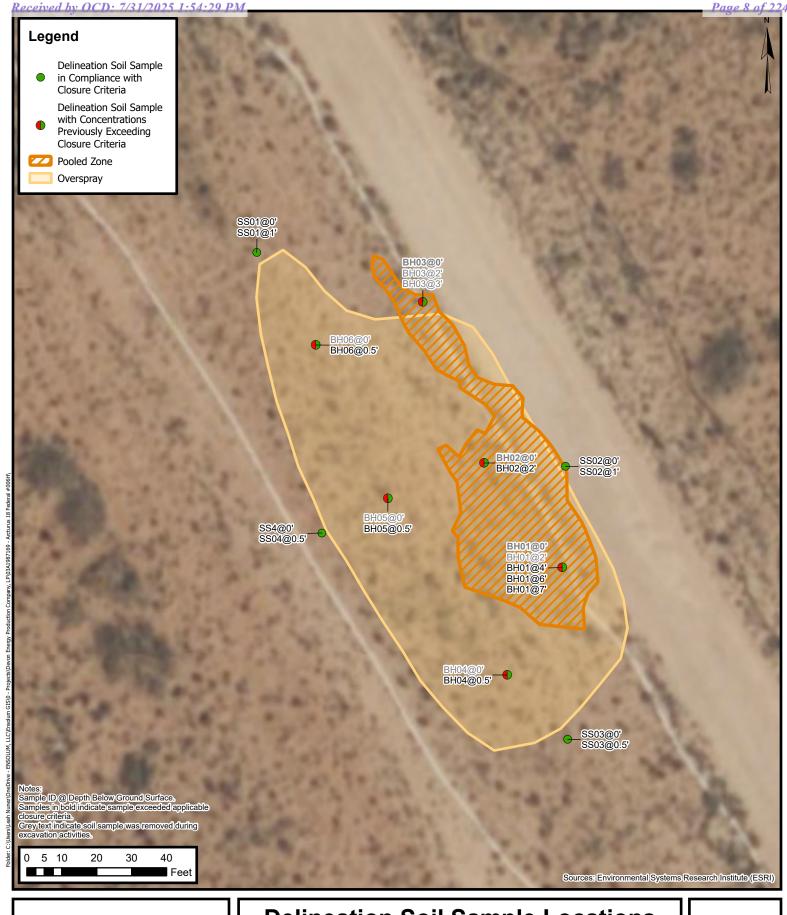
NMOCD Correspondence



FIGURES



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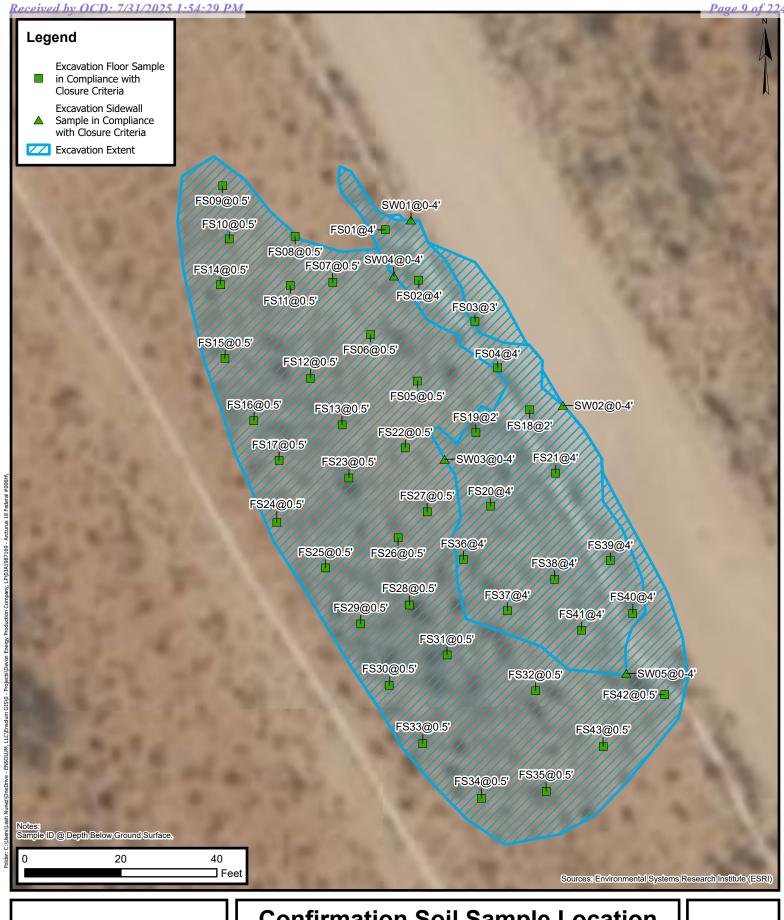


Delineation Soil Sample Locations

Devon Energy Production Company, LP
Arcturus 18 Fed 6H Flowline
Incident Number: nAPP2508641982
Unit A, Section 18, T 19S, R 31E
Eddy County, New Mexico

FIGURE 2

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Confirmation Soil Sample Location

Devon Energy Production Company, LP Arcturus 18 Federal #006H Incident Number: nAPP2508641982 Unit A, Section 18, T 19S, R 31E Eddy County, New Mexico

FIGURE 3

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TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS**

Arcturus 18 Fed 6H Flowline Devon Energy Production Company, LP

		 		Eddy	County, New M	exico			 	
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Delin	eation Soil Sar	nples				
SS01	4/9/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS01	4/9/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	4/9/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	66.9
SS02	4/9/2025	1	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	4/9/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	4/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	4/9/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	4/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	4/9/2025	0	0.837	4.5069	66.0	17,100	7,470	17,166	24,636	8,020
BH01	4/9/2025	2	< 0.0250	< 0.0500	<20.0	31.6	<50.0	31.6	32	6,250
BH01	4/9/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,180
BH01	4/9/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	820
BH01	4/9/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
BH02	4/9/2025	0	< 0.0250	< 0.0500	<20.0	15,500	6,650	15,500	22,150	16,900
BH02	4/9/2025	2	<0.0250	<0.0500	<50.0	<50.0	<50.0	<25.0	<50.0	43.3
BH03	4/9/2025	0	26.16	123.26	1,140	26,300	10,800	27,440	38,240	581
BH03	4/9/2025	2	< 0.0250	< 0.0500	<20.0	92.9	<50.0	92.9	93	2,550
BH03	4/9/2025	3	<0.0250	< 0.0500	<50.0	31.2	<50.0	31.2	31.2	217
BH04	4/9/2025	0	<0.0250	< 0.0500	449	314	<50.0	449	763	76.7
BH04	4/9/2025	0.5	<0.0250	<0.0500	<50.0	<50.0	<50.0	<25.0	<50.0	27.4
BH05	4/9/2025	0	<0.0250	< 0.0500	<50.0	<50.0	<50.0	<25.0	<50.0	<20.0
BH05	4/9/2025	0.5	<0.0250	<0.0500	<50.0	<50.0	<50.0	<25.0	<50.0	21.6
BH06	4/9/2025	0	< 0.0250	< 0.0500	<50.0	<50.0	<50.0	<25.0	<50.0	<20.0
BH06	4/9/2025	0.5	<0.0250	<0.0500	<50.0	<50.0	<50.0	<25.0	<50.0	<20.0

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

"<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

TPH: Total Petroleum Hydrocarbon Grey text represents samples that have been excavated BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes





TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS Arcturus 18 Fed 6H Flowline

Devon Energy Production Company, LP Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Excavat	ion Floor Soil S	Samples				
FS01	5/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	126
FS02	5/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	208
FS03	5/16/2025	3	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.8
FS04	5/19/2025	4	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	65.6
FS05	5/20/2025	0.5	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	46.6
FS06	5/20/2025	0.5	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	48.0
FS07	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS08	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS09	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS10	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS11	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS12	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS13	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.8
FS14	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS15	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS16	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS17	5/20/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS18	5/20/2025	2	<0.0250	<0.0500	<20.0	66.3	<50.0	66.3	66.3	90.2
FS19	5/20/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	70.1
FS20	5/20/2025	4	<0.0250	<0.0500	<20.0	29.5	<50.0	29.5	29.5	139
FS21	5/20/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,920
FS22	5/21/2025	0.5	<0.0250	<0.0500	<20.0	29.5	<50.0	29.5	29.5	128
FS23	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	74.2
FS24	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS25	5/21/2025	0.5	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS26	5/21/2025	0.5	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.6
FS27	5/21/2025	0.5	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	382
FS28	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	138
FS29	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	68.4
FS30	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	114
FS31	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	379
FS32	5/21/2025	0.5	<0.0250	<0.0500	<20.0	32.5	<50.0	32.5	32.5	361
FS33	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	116



TABLE 2 - CONT'D

SOIL SAMPLE ANALYTICAL RESULTS

Arcturus 18 Fed 6H Flowline Devon Energy Production Company, LP

				Eaay	County, New Me	EXICO				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Excava	tion Floor Soil S	amples				
FS34	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS35	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	63.2
FS36	5/21/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.4
FS37	5/21/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	41.1
FS38	5/21/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	148
FS39	5/21/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,420
FS40	5/21/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,360
FS41	5/21/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.6
FS42	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS43	5/21/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.2

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

[&]quot;<": Laboratory Analytical result is less than reporting limit

^{*} Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.



TABLE 3

SOIL SAMPLE ANALYTICAL RESULTS

Arcturus 18 Fed 6H Flowline
Devon Energy Production Company, LP

				Eudy	County, New Me	EXICO								
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000				
	Sidewall Soil Samples													
SW01	5/21/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	88.9				
SW02	5/21/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	266				
SW03	5/21/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.0				
SW04	5/21/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	132				
SW05	5/21/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.7				

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

^{*} Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.



2,500

<50.0

10,000

<20.0

TABLE 4 **SOIL SAMPLE ANALYTICAL RESULTS Arcturus 18 Fed 6H Flowline Devon Energy Production Company, LP Eddy County, New Mexico Total BTEX TPH GRO TPH DRO TPH ORO** GRO+DRO **Total TPH** Chloride (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg)

NE

<50.0

Notes:

Sample

Designation

BF01

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

Date

NMOCD Table I Closure Criteria (NMAC 19.15.29)

5/16/2025

"<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

Depth

(feet bgs)

NA

Benzene

(mg/kg)

10

< 0.0250

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

1,000

<25.0

NA: Not Applicable

50

< 0.0500

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

NE

Backfill Soil Samples <20.0

NE

<25.0

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics



APPENDIX A

Well Log and Record



,	OD 1 (TW-1) WELL OWNER N							CP-1907 PHONE (OPTIO				
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	WELL OWNER M 5488 7 Rivers		ADDRESS		Artesia			тате М 88210	ZIP			
	WELL			EGREES 32	MINUTES 39	SECONDS 55.76		* ACCURACY	REQUIRED:	ONE TENTH	OF A SECOND	
	(FROM GPS)		TTUDE GITUDE	103	54	4.95	N W	DATUM REC			2000	
ш			G WELL LOCATION TO 9S R31S NMPM	STREET ADDRE	SS AND COMMON	LANDMAR	KS – PLS	SS (SECTION, TO	WNSHJIP, RA	NGE) WHERE	E AVAILABLE	
1	LICENSE NO.		NAME OF LICENSED	DRILLER	STAL				NAME OF	WELL DRILLI	ING COMPANY	
	1249			Ja	ckie D. Atkins				A	kins Engine	ering Associates, I	nc.
I	ORILLING STAR 7/13/2022		DRILLING ENDED 7/13/2022		PLETED WELL (F.	Г) В		LE DEPTH (FT) ±55	DEPTH W	ATER FIRST F	N/A	
,	COMPLETED WE	LL IS:	ARTESIAN	✓ DRY HOLE	SHALLO	W (UNCONF	INED)		WATER LEV PLETED WEI		7/13/2022,	
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APPENDIX B

Environmental Karst Study Report

Aerial and Geophysical Cave and Karst Investigation: Arcturus 18 Fed 006H

Report Delivered: 07/15/2025

Prepared for: Ensolum, LLC 3122 National Parks HWY Carlsbad, NM 88220

Prepared By:
Advanced Geophysics, LLC
2821 White Plains Dr.
Midlothian, Texas 76065



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Executive summary

Introduction

Ensolum, LLC requested an aerial and geophysical karst survey following a release near the Arcturus 18 Fed 006H site, located at 32.664030, -103.901092. The objective of the surveys was to assess the stability of the site by investigating surface and subsurface conditions for the presence of potential karst features.

Findings

- The aerial survey revealed:
 - o **No anomalies** were identified within the 200-meter (656 ft) buffer of the release.
- The geophysical survey revealed:
 - No anomalies that could be interpreted as areas of increased porosity or air-filled voids/conduits were identified.

Recommendations

- Mitigation Planning:
 - Any subsurface voids encountered during construction, or any phase of the remediation process must be reported to the Bureau of Land Management Karst Division or the New Mexico State Lands Office Resource Division.
 - Mitigation measures should align with guidelines in the Bureau of Land Management Cave and Karst Management Handbook (H-8380-1) or the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment (Code 527).

Conclusions

Aerial and geophysical surveys conducted near the Arcturus 18 Fed 006H site did not reveal any surface or subsurface anomalies indicative of karst features. In the absence of such features, both at and below the surface, the site is characterized as stable.



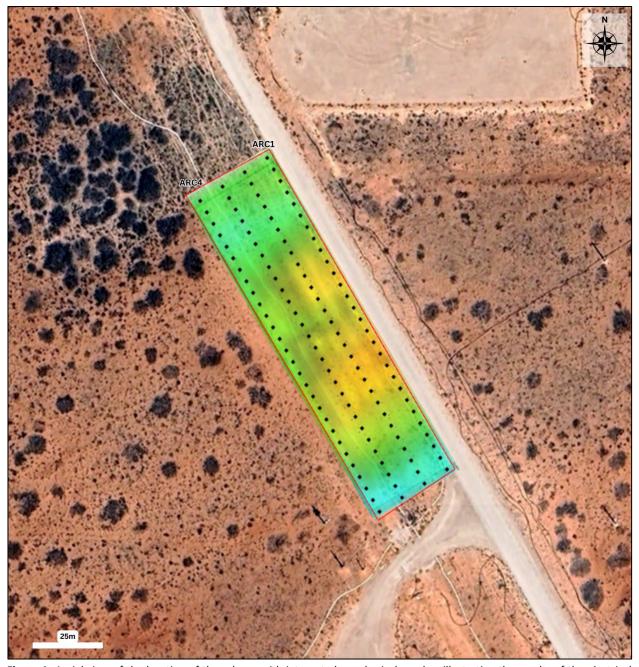


Figure A. Aerial view of the location of the release with integrated geophysical overlay, illustrating the results of the electrical resistivity survey.



1.0 INTRODUCTION

The following report has been prepared for Ensolum, LLC, to determine the presence or absence of surface and subsurface voids surrounding a release near the Arcturus 18 Fed 006H site, located at approximately 32.664030, -103.901092, within Eddy County, New Mexico (Figure 1). To delineate the subsurface features, a geophysical survey (electrical resistivity tomography) was conducted, processed, and interpreted by Kaleb Henry of Advanced Geophysics, LLC. The aerial karst survey was conducted and processed by SWCA Environmental Consultants. The aerial data was then reviewed and interpreted by Kaleb Henry of Advanced Geophysics, LLC.

The aerial and electrical resistivity surveys were requested by Ensolum, LLC on Jun 11, 2025. Upon the request, the client provided coordinates (listed above) for the well pad, as well as a Google Earth shape file (**Output.kmz**) to ensure the survey encompassed the entire release.

1.1 Summary of Results

Aerial and geophysical surveys conducted at the location of a release near the Arcturus 18 Fed 006H site did not identify any surface or subsurface anomalies indicative of karst features. While the presence of smaller voids, fractures, or zones of increased porosity cannot be entirely ruled out, such features may have remained undetected due to the resolution limitations of the survey methods employed. Given the absence of definitive karst features in both the aerial and geophysical surveys, the site is characterized as stable.

1.2 Site Location

The site is located approximately 41.18 kilometers (25.59 miles) northeast of Carlsbad, New Mexico, and approximately 15.64 kilometers (9.72 miles) north of US Highway 62, within the NENE quarters of Section 18, Township 19 South, Range 31 East, in Eddy County, New Mexico. The release occurred on the Bureau of Land Management land.



1.3 Bureau of Land Management Characterization

The BLM have identified four divisions of karst potential: low, medium, high, and critical. These regions are characterized based on the known occurrence of karst features, underlying geologic formations, and potential impacts to freshwater aquifers. The survey was conducted within an area characterized as medium karst occurrence zone by the (BLM) – Carlsbad Office^[1].

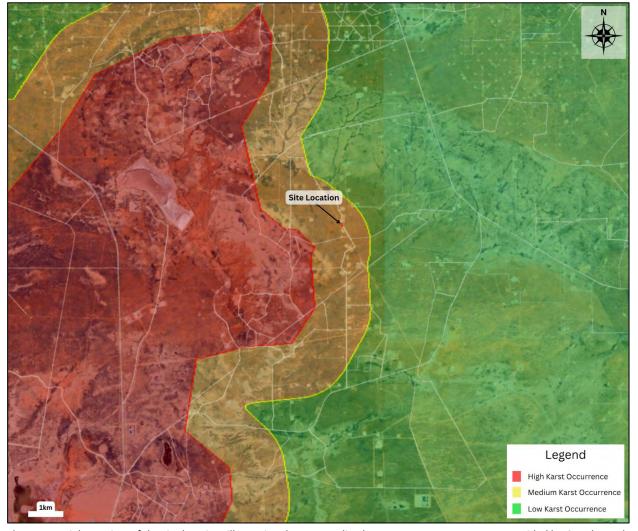


Figure 1. Aerial overview of the site location, illustrating the surrounding karst occurrence zones. Map provided by Google Earth in datum WSG-84. Karst occurrence map provided by Bureau of Land Management – Carlsbad Office.

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2.0 LOCAL GEOLOGY AND ENVIRONMENT

2.1 Geologic Setting

The site is situated along the northern edge of the Chihuahuan Desert, on the outskirts of a physiographic region known as the Gypsum Plain (**Figure 2**) ^[13]. The Gypsum Plain is composed of Permian-age evaporites, characterized by extensive cave and karst development in the Castile, Salado, and Rustler Formations^[11]. Stratigraphically, the Rustler Formation overlies the Salado and Castile Formations within the Delaware Basin. The Rustler Formation was deposited during the mid-to-late Ochoan, as the Delaware Basin transitioned from a hypersaline sea to a terrestrial environment^{[3][6]}. This transition led to a complex array of depositional environments, resulting in the formation of five distinct members within the Rustler Formation: Los Medaños, Culebra Dolomite, Tamarisk, Magenta Dolomite, and Fortyniner, listed in ascending order. The Tamarisk and Fortyniner Members, in particular, exhibit the most diverse salt pan to mudflat facies within the Rustler Formation, comprising mudstone, halite, and gypsum^[16]. Due to their composition, these facies are highly susceptible to dissolution, leading to the formation of karst features.

Directly beneath the Rustler Formation lies the Salado Formation, deposited during the mid-Ochoan as the Delaware Basin became increasingly restricted, forming a density-stratified, hypersaline sea^[17]. This depositional environment resulted in the Salado Formation being predominantly composed of halite (salt-NaCl) interbedded with anhydrite (gypsum)^[18]. These evaporite facies are highly prone to dissolution by downward-migrating meteoric waters, which can create various karst features such as conduits, sinkholes, and cavernous porosity. Once initiated, these features can expand rapidly due to the high solubility of halite and gypsum/anhydrite. Halite, with a solubility rate of 360 g/L at 77°F, is approximately two orders of magnitude more soluble than gypsum^[15]. Gypsum, in turn, has a solubility rate of approximately 2.531 g/L at 68°F, which is around four orders of magnitude higher than that of limestone (calcium carbonate) ^[9].

The high solubility of these evaporite facies facilitates the rapid development of complex cave systems, which can form within days, weeks, or years, depending on the surrounding hydrogeologic conditions^[13]. These cave systems serve as preferential flow paths for shallow groundwater recharge, creating a dynamic and continuously evolving karst-aquifer system^[11].



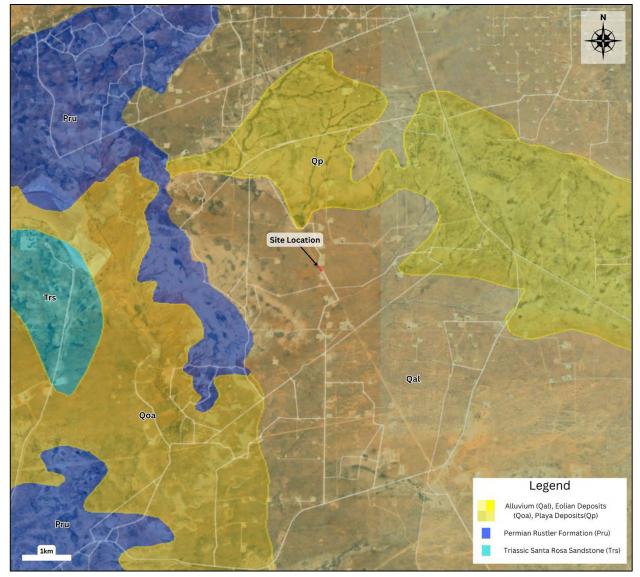


Figure 2. Geologic formations surrounding the site location. Permian Rustler Formation (Pr), Triassic Santa Rosa Sandstone (Trs), Quaternary alluvial, eolian, and playa deposits (Qal, Qoa, Qp). Background image provided by Google Earth in datum WSG-84. Geologic unit overlay provided by the United State Geologic Society (USGS) and the Bureau of Economic Geology, UT-Austin.

2.2 Environmental Setting

The site is located within an area known as the Chihuahuan Desert Thornscrub, where vegetation is sparse. Vegetation surrounding the surveyed location primarily consists of grass with and few creosote bushes. The site is mantled by a soil profile known as Berino, which is composed of a loamy fine sand that transitions to a sandy clay loam deeper in the soil profile^[14]. These soils are typically well drained and stable ^[14].



July 2025

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The environment surrounding the survey has been characterized as an evaporitic karst terrain, due to the underlying geologic formations. The Rustler Formation has many documented sinkholes, conduits, and caves, which are highly susceptible to enlargement by dissolution as surface water migrates downward through the formation. These conduits can facilitate the rapid recharge of the groundwater aquifers.

3.0 METHODOLOGY

3.1 Description of Geophysical Survey

This project consisted of four parallel two-dimensional (2-D) direct current (DC) resistivity survey lines. These surveys were conducted using an Advanced Geosciences' Inc. (AGI) SuperStingTM (R8/IP) multi-electrode earth resistivity meter. All four lines were performed using a dipole-dipole array configuration consisting of 28 electrodes arranged northwest-to-southeast (electrodes 1 to 28), with a 5-meter (16.4 ft) electrode spacing and 10-meter (32.8 ft) line spacing oriented from northeast-to-southwest (lines 1 to 4). This set up was designed to ensure high accuracy and enhanced shallow depth resolution. Due to the electrode spacing and configuration, the near surface resolution is approximately 2.5 meters (8.2 ft), with the total depth of investigation ranging from 24.6 to 29.6 meters (80.6 to 97 ft) below ground surface (bgs). Each electrode location was recorded using an EMLID RS3 GPS unit with an estimated horizontal location error of 5 centimeters (2 in). The KML file (Arcturus 18 Fed 006H.kml) and the corresponding raw dataset (Arcturus 18 Fed 006H _Report.csv) produced during the data collection were submitted to Ensolum, LLC upon submission of the report.

The electrical contact resistance between the ground and each electrode was maintained below 5,000 Ω m. If initial electrode contact resistance exceeded 5,000 Ω m, then electrodes would be wetted with well water prior to the survey to lower contact resistance below 5,000 Ω m. Each electrical resistivity line was conducted using time estimates of 800 ms and cycled twice per electrode pair. The SuperSting TM (R8/IP) was set to inject a 2,000 mA current for each survey measurement and was set to reach a maximum error threshold of 2% between measurement cycles. Recorded resistivity measurements were processed with EarthImagerTM 2-D/3-D inversion modeling software, produced by AGI. To improve inverted resistivity models, data outliers which account for less than 10% of total data, were removed using data misfit histograms. Terrain correction was incorporated into resistivity analyses.



The surveyed lines (ARC1.stg – ARC4.stg) were completed by Kaleb Henry and Ralph Reyes between July 4, 2025, and July 5, 2024.

3.2 Description of Aerial Survey

An aerial karst survey near the Arcturus 18 Fed 006H site was conducted by a Federal Aviation Administration (FAA) —licensed drone pilot affiliated with SWCA Environmental Consultants. Survey parameters were developed by Kaleb Henry of Advanced Geophysics to ensure compliance with the stringent requirements established by the Bureau of Land Management — Carlsbad Field Office (BLM-CFO), which are recognized by the New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO).

The aerial survey utilized a preplanned flight path flown at low elevations, with aerial transects spaced to achieve an estimated 70–80% imagery overlap. This overlap minimizes errors during the image-stitching process and enhances the accuracy and resolution of the final imagery products. Following data collection, the images were stitched to produce an orthomosaic image, which was then processed to generate a highly accurate Digital Elevation Model (DEM). A Lower Relief Model (LRM) was subsequently derived from the DEM to highlight sharp changes in elevation (approximately 5 cm). The LRM, along with the DEM and orthomosaic imagery, was carefully examined and analyzed by an experienced cave and karst specialist.

The aerial imagery used in the survey has a resolution of approximately 5 cm (2 in), enabling a trained geologist to identify small-scale karst features with a high degree of detail. However, it is important to recognize the potential presence of artificial artifacts within the LRM, as shadowing and dense vegetation can result in the misrepresentation of topographic highs or lows.

3.3 Electrical Resistivity Theory

Electrical resistivity tomography is predicated on the response of electrical current flowing through subsurface material, from transmitter electrodes to potential electrodes. As the current migrates through the underlying media, a potential difference (apparent resistivity) in current is measured. There are three primary factors for determining the electrical resistivity of a subsurface material: Lithology, saturation, and porosity. As porosity increases, resistance to the flow of electrical current is increased, due to the theoretically infinite resistiveness of air. When an area of increased porosity/void is encountered within the subsurface a sharp contrast in electrical resistiveness to the surrounding material is



measured and recorded. This theory, coupled with knowledge of the underlying geology, allows an experienced geophysicist to develop an accurate interpretation of the subsurface features.

NOTE: Conducting electrical resistivity surveys in areas with known subsurface metallic structures can lead to inaccurate representations of subsurface conditions. Metallic elements tend to create preferential pathways for electrical current, resulting in non-uniform current distributions that may cause inversion algorithms to misinterpret the acquired data. Additionally, these structures can generate shadow zones due to electromagnetic shielding, which impedes current penetration into deeper subsurface layers. Consequently, this may lead to artificially elevated or reduced resistivity values in the final interpretation.

3.3 Survey Results

3.3.1 Aerial Karst Survey

The aerial karst survey did not identify any anomalies exhibiting characteristics consistent with surficial karst features within the 200-meter (656-foot) buffer surrounding the release near the Arcturus 18 Fed 006H site (**Figure 3**).



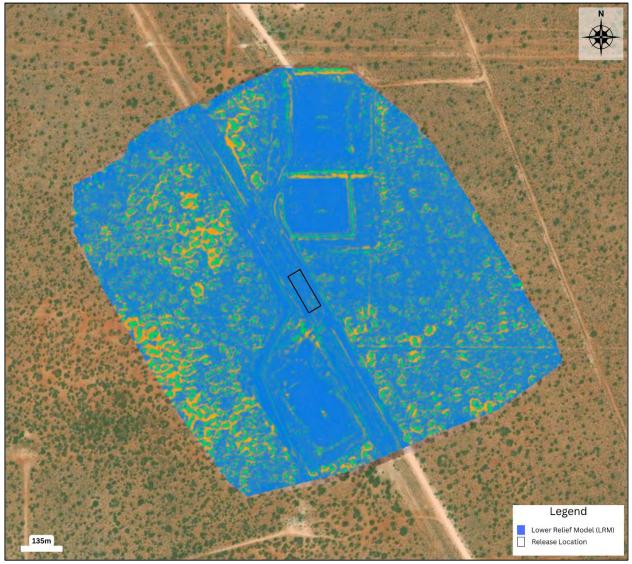


Figure 3. Lower Relief Model (LRM) of the area surrounding the release location near the Arcturus 18 Fed 006H site, delineated by the black block. The blue gradient represents variations in surface elevation, with green indicating areas of higher elevation and orange to red denoting areas of lower elevation.



3.3.2 Geophysical Karst Survey

The geophysical survey did not identify any subsurface anomalies that could be characterized as air-filled voids or areas of increased porosity (**Figure 4**). However, due to the resolution limitations, smaller fractures and voids/conduits may be present but went undetected.

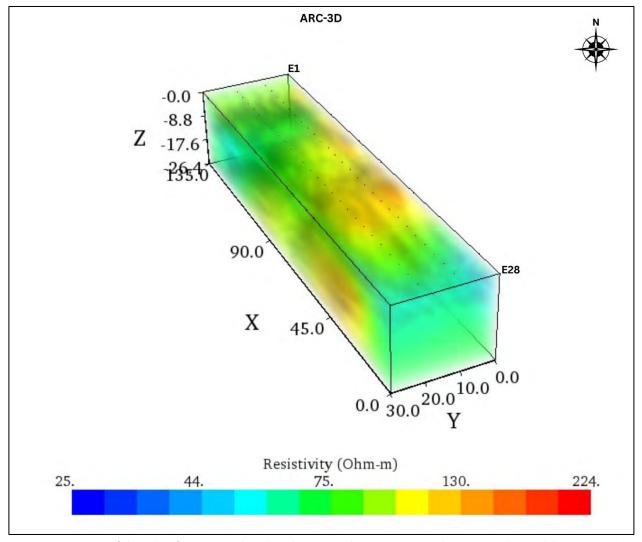


Figure 4. 3-D image of the subsurface surrounding the release near the Arcturus 18 Fed 006H site. This model was created by combining the 2-D resistivity lines ARC1 through ARC4.



4.0 SUMMARY AND RECOMMENDATIONS

The aerial karst survey conducted near the Arcturus 18 Fed 006H site did not identify any areas exhibiting characteristics of surficial karst features. A geophysical survey was also conducted but revealed no subsurface anomalies indicative of air-filled voids or areas of elevated porosity. Nonetheless, the potential presence of smaller undetected fractures or conduits cannot be excluded due to resolution limitations.

The underlying geologic formation at the surveyed location is highly susceptible to dissolution, which facilitates the rapid development and expansion of subsurface voids and conduits, within a timescale ranging from days to a few months. The progression of these processes can be significantly accelerated in the absence of appropriate mitigation measures. Infrastructure systems that contain or transport fluids pose a heightened risk in such settings. In the event of a structural failure or unnoticed leakage, the unintended introduction of fluids into the subsurface can intensify dissolution processes, potentially triggering rapid subsidence or collapse.

Subsurface voids encountered during construction, drilling or remediation processes should be immediately reported to either the Surface Resources Division of the New Mexico State Land Office Resources Division, or the Bureau of Land Management Karst Division, in order to request a Cave and Karst Specialist. Any implemented procedures to mitigate a cave or karst feature should follow the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1, or the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527.

5.0 DISCLAIMER AND LIMITATIONS OF USE

This report has been prepared exclusively for the use of Ensolum, LLC. It is not intended for use or reliance by any third party without the prior written consent of Advanced Geophysics, LLC. Any unauthorized use or reliance upon this report by third parties is strictly prohibited and shall be at the sole risk of the user.

The findings, analyses, and interpretations contained herein are based upon the professional judgment of qualified geoscientists at Advanced Geophysics, LLC, utilizing data acquired through recognized industry-standard geophysical methods. These interpretations are inherently non-definitive and are subject to verification through appropriate field investigations.

The geological and environmental conditions described reflect the state of the site during the time of the geophysical survey, conducted between July 4, 2025, and July 5, 2025. Advanced Geophysics, LLC assumes no responsibility for any changes to site conditions that may have occurred subsequent to this time period. It is acknowledged that subsurface conditions,



particularly within karst or evaporitic terrains, are inherently dynamic and subject to natural processes such as dissolution, which may result in rapid and unanticipated changes.

This report is further subject to limitations associated with the resolution capabilities of the geophysical methodologies employed. Certain subsurface features, including but not limited to minor voids or fractures, may exist below the detection threshold of the instruments used and, as such, may not have been identified herein. The absence of geophysical anomalies should not be construed as conclusive evidence of the absence of subsurface risks or hazards.

To the best of our knowledge and belief, the information presented in this report is accurate as of the date of issuance. No warranty, express or implied, is made as to the completeness or accuracy of the data, interpretations, or conclusions contained herein.



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7.0 APPENDICES

7.1 Electrical Resistivity Data

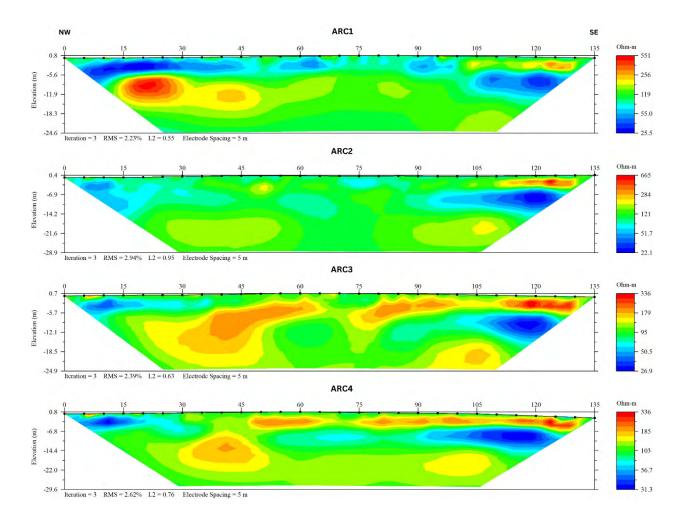
The KML file (**Arcturus 18 Fed 006H.kml**) and the corresponding raw dataset (**Arcturus 18 Fed 006H_Report.csv**), which document the precise locations of all electrodes, are also available upon request. The STG files were processed and modeled using EarthImager[™] 2D/3D, provided by AGI. During the modeling process, data outliers which account for less than 10% of total data were removed using data misfit histograms. Terrain correction was incorporated into resistivity sections to better constrain the relationship between topography and electrical resistivity analyses.

The resistivity lines were collected from northeast-to-southwest, and the electrodes were oriented from northwest-to-southeast. The surveys reached a maximum depth ranging from approximately 24.6 to 29.6 meters (80.6 to 97 ft). Due to the resolution limitations, small fractures and voids/conduits may be present but went undetected.



July 2025 17

7.2 Electrical Resistivity Images

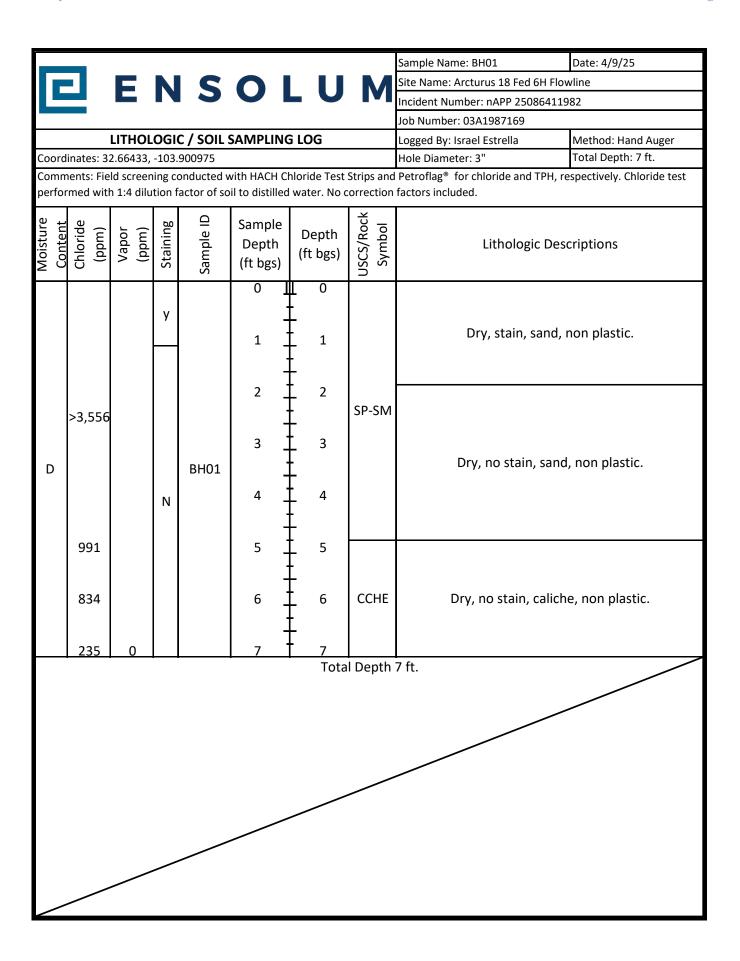


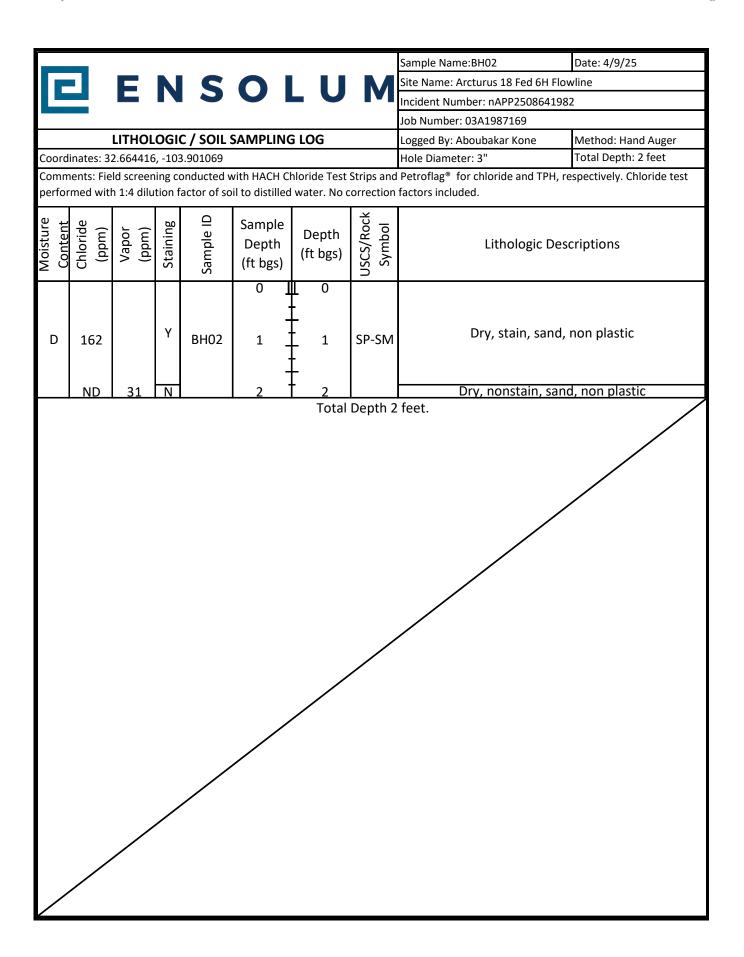


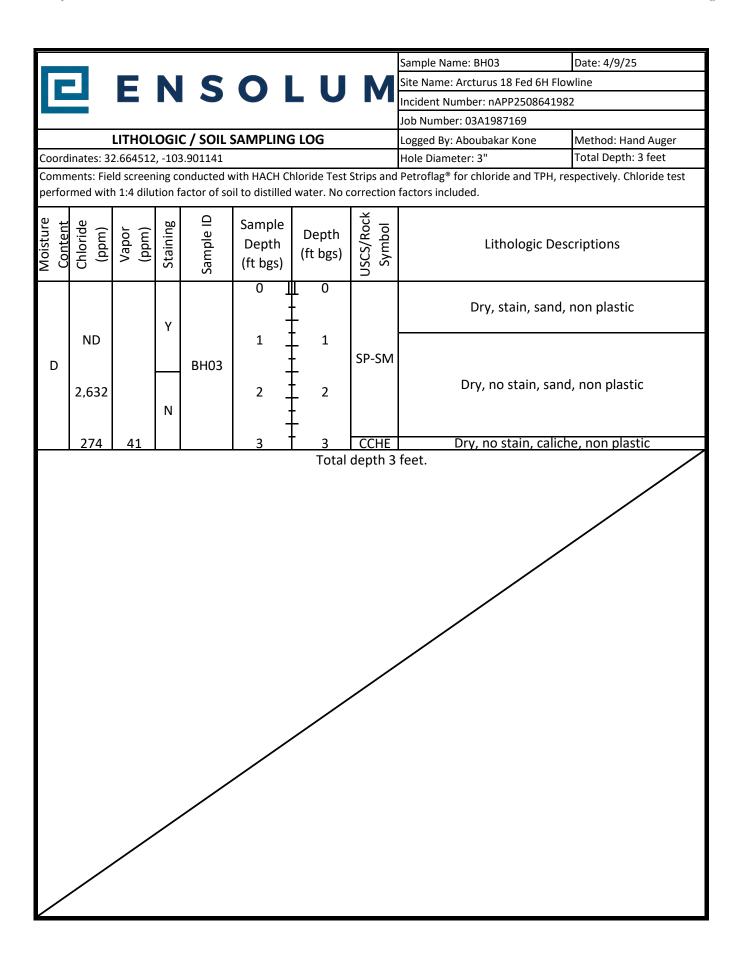


APPENDIX C

Lithologic Soil Sampling Logs









APPENDIX D

Photographic Log



Devon Energy Production Company, LP Arcturus 18 Fed 6H Flowline nAPP2508641982





Date: 3/27/2025

Photograph 1 Date: 3/27/2025

Description: Spill Area View: North Photograph 2

Description: Spill Area View: Southeast





Photograph 3 Date: 3/27/2025 Photograph 4 Date: 3/27/2025

Description: Spill Area

View: Southeast

Description: Spill Area

View: South



Devon Energy Production Company, LP
Arcturus 18 Fed 6H Flowline
nAPP2508641982





Photograph 5

Description: BH01
View: Southwest

Date: 4/9/2025

Photograph 6
Description: BH02

View: Southwest

Date: 4/9/2025





Photograph 7
Description: BH03

View: South

Date: 4/9/2025

Photograph 8
Description: BH04

View: West

Date: 4/9/2025



Devon Energy Production Company, LP
Arcturus 18 Fed 6H Flowline
nAPP2508641982





Photograph 9 Date: 5/15/2025 Photograph 10 Date: 5/15/2025

Description: Hydro-vac

View: North

Description: Excavation

View: Southeast





Photograph 11 Date: 5/15/2025 Photograph 12 Date: 5/16/2025

Description: Excavation

View: Southeast

Description: Excavation

View: North



Devon Energy Production Company, LP
Arcturus 18 Fed 6H Flowline
nAPP2508641982





Photograph 13 Date: 5/19/2025

Description: Excavation View: Southeast

Photograph 14

Description: Excavation
View: Northwest

Date: 5/19/2025





Photograph 15 Date: 5/20/2025
Description: Excavation

View: East

Photograph 16

Description: Excavation

View: South

Date: 5/20/2025



Devon Energy Production Company, LP Arcturus 18 Fed 6H Flowline nAPP2508641982





Photograph 17 Date: 5/20/2025

Description: Excavation View: Northwest

Photograph 18

Date: 5/21/2025

Description: Excavation View: Southeast





Photograph 19

Description: Excavation

View: Northwest

Photograph 20

Description: Excavation

View: South

Date: 5/21/2025

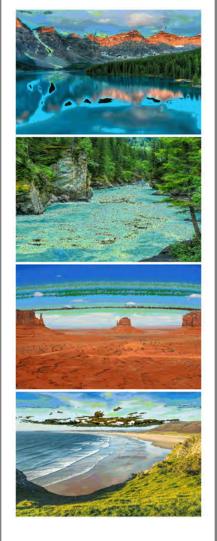
Date: 5/21/2025



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Arcturus 18 Federal #006H

Work Order: E504093

Job Number: 01058-0007

Received: 4/10/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/17/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/17/25

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Arcturus 18 Federal #006H

Workorder: E504093

Date Received: 4/10/2025 11:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2025 11:30:00PM, under the Project Name: Arcturus 18 Federal #006H.

The analytical test results summarized in this report with the Project Name: Arcturus 18 Federal #006H 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

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Donoutoda
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/17/25 10:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E504093-01A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH01-2'	E504093-02A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH01-4'	E504093-03A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH01-6'	E504093-04A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH01-7'	E504093-05A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH02-0'	E504093-06A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH02-2'	E504093-07A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH03-0'	E504093-08A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH03-2'	E504093-09A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH03-3'	E504093-10A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH04-0'	E504093-11A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH04-0.5'	E504093-12A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH05-0'	E504093-13A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH05-0.5'	E504093-14A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH06-0'	E504093-15A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
BH06-0.5'	E504093-16A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS01-0'	E504093-17A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS01-1'	E504093-18A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS02-0'	E504093-19A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS02-1'	E504093-20A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS03-0'	E504093-21A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS03-0.5'	E504093-22A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS04-0'	E504093-23A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.
SS04-0.5'	E504093-24A	Soil	04/09/25	04/10/25	Glass Jar, 2 oz.

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH01-0' E504093-01

		E504093-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/11/25	
Ethylbenzene	0.837	0.0250	1	04/11/25	04/11/25	
Toluene	0.0899	0.0250	1	04/11/25	04/11/25	
o-Xylene	1.19	0.0250	1	04/11/25	04/11/25	
p,m-Xylene	2.38	0.0500	1	04/11/25	04/11/25	
Total Xylenes	3.58	0.0250	1	04/11/25	04/11/25	
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	70-130	04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	66.0	20.0	1	04/11/25	04/11/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.1 %	70-130	04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	17100	250	10	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	7470	500	10	04/11/25	04/15/25	
Surrogate: n-Nonane		119 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2515117
Chloride	8020	100	5	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH01-2'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/11/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/11/25	
Toluene	ND	0.0250	1	04/11/25	04/11/25	
o-Xylene	ND	0.0250	1	04/11/25	04/11/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/11/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/11/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/11/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	70-130	04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	31.6	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		103 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2515117
Chloride	6250	100	5	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH01-4'

E504093-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/11/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/11/25	
Toluene	ND	0.0250	1	04/11/25	04/11/25	
o-Xylene	ND	0.0250	1	04/11/25	04/11/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/11/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/11/25	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/11/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		104 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2515117
Chloride	9180	200	10	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH01-6'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/12/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/12/25	
Toluene	ND	0.0250	1	04/11/25	04/12/25	
o-Xylene	ND	0.0250	1	04/11/25	04/12/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/12/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/12/25	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/12/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		104 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2515117
Chloride	820	20.0	1	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH01-7'

E504093-05							
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2515108	
Benzene	ND	0.0250	1	04/11/25	04/11/25		
Ethylbenzene	ND	0.0250	1	04/11/25	04/11/25		
Toluene	ND	0.0250	1	04/11/25	04/11/25		
o-Xylene	ND	0.0250	1	04/11/25	04/11/25		
p,m-Xylene	ND	0.0500	1	04/11/25	04/11/25		
Total Xylenes	ND	0.0250	1	04/11/25	04/11/25		
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	04/11/25	04/11/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2515108	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/11/25		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	04/11/25	04/11/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KH		Batch: 2515114	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25		
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25		
Surrogate: n-Nonane		97.4 %	61-141	04/11/25	04/15/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: JM		Batch: 2515117	
Chloride	156	20.0	1	04/11/25	04/11/25		



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH02-0'

		D 4				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesun	Liillit	Dilution	Fiepared	Anaryzed	INUICS
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2515108
Benzene	ND	0.125	5	04/11/25	04/12/25	
Ethylbenzene	ND	0.125	5	04/11/25	04/12/25	
Toluene	ND	0.125	5	04/11/25	04/12/25	
o-Xylene	ND	0.125	5	04/11/25	04/12/25	
p,m-Xylene	ND	0.250	5	04/11/25	04/12/25	
Total Xylenes	ND	0.125	5	04/11/25	04/12/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	100	5	04/11/25	04/12/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	15500	250	10	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	6650	500	10	04/11/25	04/15/25	
Surrogate: n-Nonane		96.9 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2515117
Chloride	16900	200	10	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH02-2'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/12/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/12/25	
Toluene	ND	0.0250	1	04/11/25	04/12/25	
o-Xylene	ND	0.0250	1	04/11/25	04/12/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/12/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/12/25	
Surrogate: 4-Bromochlorobenzene-PID		112 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/12/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		101 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2515117
Chloride	43.3	20.0	1	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH03-0'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2515108
Benzene	2.66	0.500	20	04/11/25	04/12/25	
Ethylbenzene	23.5	0.500	20	04/11/25	04/12/25	
Toluene	32.5	0.500	20	04/11/25	04/12/25	
o-Xylene	18.2	0.500	20	04/11/25	04/12/25	
p,m-Xylene	46.4	1.00	20	04/11/25	04/12/25	
Total Xylenes	64.6	0.500	20	04/11/25	04/12/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	1140	400	20	04/11/25	04/12/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	26300	250	10	04/11/25	04/15/25	Т9
Oil Range Organics (C28-C36)	10800	500	10	04/11/25	04/15/25	
Surrogate: n-Nonane		276 %	61-141	04/11/25	04/15/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2515117
Chloride	581	20.0	1	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH03-2'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/12/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/12/25	
Toluene	ND	0.0250	1	04/11/25	04/12/25	
o-Xylene	ND	0.0250	1	04/11/25	04/12/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/12/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/12/25	
Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/12/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.1 %	70-130	04/11/25	04/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	92.9	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		98.9 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2515117
Chloride	2550	40.0	2	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH03-3'

		E504093-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25	
Toluene	ND	0.0250	1	04/11/25	04/14/25	
o-Xylene	ND	0.0250	1	04/11/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	31.2	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		105 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: JM		Batch: 2515117
Chloride	217	20.0	1	04/11/25	04/11/25	



Sample Data

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH04-0'

		E504093-11					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2515108	
Benzene	ND	0.0250	1	04/11/25	04/14/25		
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25		
Toluene	ND	0.0250	1	04/11/25	04/14/25		
o-Xylene	ND	0.0250	1	04/11/25	04/14/25		
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25		
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25		
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2515108	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2515114	
Diesel Range Organics (C10-C28)	449	25.0	1	04/11/25	04/15/25		
Oil Range Organics (C28-C36)	314	50.0	1	04/11/25	04/15/25		
Surrogate: n-Nonane		106 %	61-141	04/11/25	04/15/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2515117	
Chloride	76.7	20.0	1	04/11/25	04/11/25		



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH04-0.5'

E504093-12							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108	
Benzene	ND	0.0250	1	04/11/25	04/14/25		
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25		
Toluene	ND	0.0250	1	04/11/25	04/14/25		
o-Xylene	ND	0.0250	1	04/11/25	04/14/25		
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25		
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25		
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25		
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2515114	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25		
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25		
Surrogate: n-Nonane		97.6 %	61-141	04/11/25	04/15/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2515117	
Chloride	27.4	20.0	1	04/11/25	04/11/25		



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
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BH05-0'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25	
Toluene	ND	0.0250	1	04/11/25	04/14/25	
o-Xylene	ND	0.0250	1	04/11/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		97.2 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2515117
Chloride	ND	20.0	1	04/11/25	04/11/25	·



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH05-0.5'

		E504093-14				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25	
Toluene	ND	0.0250	1	04/11/25	04/14/25	
o-Xylene	ND	0.0250	1	04/11/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		102 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: JM		Batch: 2515117
Chloride	21.6	20.0	1	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH06-0'

E504093-15							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108	
Benzene	ND	0.0250	1	04/11/25	04/14/25		
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25		
Toluene	ND	0.0250	1	04/11/25	04/14/25		
o-Xylene	ND	0.0250	1	04/11/25	04/14/25		
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25		
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25		
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2515114	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25		
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25		
Surrogate: n-Nonane		97.9 %	61-141	04/11/25	04/15/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2515117	
Chloride	ND	20.0	1	04/11/25	04/11/25	·	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

BH06-0.5'

		E504093-16					
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2515108	
Benzene	ND	0.0250	1	04/11/25	04/14/25		
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25		
Toluene	ND	0.0250	1	04/11/25	04/14/25		
o-Xylene	ND	0.0250	1	04/11/25	04/14/25		
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25		
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25		
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2515108	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25		
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	04/11/25	04/14/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KH		Batch: 2515114	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25		
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25		
Surrogate: n-Nonane		98.7 %	61-141	04/11/25	04/15/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2515117	
Chloride	ND	20.0	1	04/11/25	04/11/25	·	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

SS01-0'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25	
Toluene	ND	0.0250	1	04/11/25	04/14/25	
o-Xylene	ND	0.0250	1	04/11/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	kg mg/kg Analyst: KH			Batch: 2515114	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		102 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2515117
Chloride	ND	20.0	1	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

SS01-1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25	
Toluene	ND	0.0250	1	04/11/25	04/14/25	
o-Xylene	ND	0.0250	1	04/11/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg mg/k		Analyst: KH		Batch: 2515114	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		102 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2515117
Chloride	ND	20.0	1	04/11/25	04/12/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

SS02-0'

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		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25	
Toluene	ND	0.0250	1	04/11/25	04/14/25	
o-Xylene	ND	0.0250	1	04/11/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		109 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: JM		Batch: 2515117
Chloride	66.9	20.0	1	04/11/25	04/12/25	•



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

SS02-1'

E504093-20

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2515108
Benzene	ND	0.0250	1	04/11/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/11/25	04/14/25	
Toluene	ND	0.0250	1	04/11/25	04/14/25	
o-Xylene	ND	0.0250	1	04/11/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/11/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/11/25	04/14/25	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2515108
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/25	04/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	04/11/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KH		Batch: 2515114
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/25	04/15/25	
Surrogate: n-Nonane		101 %	61-141	04/11/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2515117
Chloride	ND	20.0	1	04/11/25	04/12/25	



Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo4/17/2025 10:39:11AM

SS03-0'

E504093-21

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepare	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: BA		Batch: 2515109
Benzene	ND	0.0250	1	04/11/2	5 04/11/25	
Ethylbenzene	ND	0.0250	1	04/11/2	5 04/11/25	
Toluene	ND	0.0250	1	04/11/2	5 04/11/25	
o-Xylene	ND	0.0250	1	04/11/2	5 04/11/25	
p,m-Xylene	ND	0.0500	1	04/11/2	5 04/11/25	
Total Xylenes	ND	0.0250	1	04/11/2	5 04/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	04/11/2	5 04/11/25	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	04/11/2	5 04/11/25	
Surrogate: Toluene-d8		106 %	70-130	04/11/2	5 04/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: BA		Batch: 2515109
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/2	5 04/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	04/11/2	5 04/11/25	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	04/11/2	5 04/11/25	
Surrogate: Toluene-d8		106 %	70-130	04/11/2	5 04/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KH		Batch: 2515116
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/2	5 04/14/25	_
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/2	5 04/14/25	
Surrogate: n-Nonane		99.2 %	61-141	04/11/2	5 04/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2515113



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

SS03-0.5' E504093-22

		E504095-22					
Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Allarytt	Result	Limit			•	Allaryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: B	A		Batch: 2515109
Benzene	ND	0.0250	1		04/11/25	04/11/25	
Ethylbenzene	ND	0.0250	1		04/11/25	04/11/25	
Toluene	ND	0.0250	1		04/11/25	04/11/25	
o-Xylene	ND	0.0250	1		04/11/25	04/11/25	
p,m-Xylene	ND	0.0500	1		04/11/25	04/11/25	
Total Xylenes	ND	0.0250	1		04/11/25	04/11/25	
Surrogate: Bromofluorobenzene		105 %	70-130		04/11/25	04/11/25	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130		04/11/25	04/11/25	
Surrogate: Toluene-d8		106 %	70-130		04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: B	A		Batch: 2515109
Gasoline Range Organics (C6-C10)	ND	20.0	1		04/11/25	04/11/25	
Surrogate: Bromofluorobenzene		105 %	70-130		04/11/25	04/11/25	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130		04/11/25	04/11/25	
Surrogate: Toluene-d8		106 %	70-130		04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	Н		Batch: 2515116
Diesel Range Organics (C10-C28)	ND	25.0	1		04/11/25	04/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1		04/11/25	04/14/25	
Surrogate: n-Nonane		101 %	61-141		04/11/25	04/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: R	AS		Batch: 2515113
Chloride	ND	20.0	1		04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

SS04-0'

E504093-23

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: BA		Batch: 2515109
Benzene	ND	0.0250		1	04/11/25	04/11/25	
Ethylbenzene	ND	0.0250		1	04/11/25	04/11/25	
Toluene	ND	0.0250		1	04/11/25	04/11/25	
o-Xylene	ND	0.0250		1	04/11/25	04/11/25	
p,m-Xylene	ND	0.0500		1	04/11/25	04/11/25	
Total Xylenes	ND	0.0250		1	04/11/25	04/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130		04/11/25	04/11/25	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		04/11/25	04/11/25	
Surrogate: Toluene-d8		105 %	70-130		04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: BA		Batch: 2515109
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/11/25	04/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130		04/11/25	04/11/25	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		04/11/25	04/11/25	
Surrogate: Toluene-d8		105 %	70-130		04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KH		Batch: 2515116
Diesel Range Organics (C10-C28)	ND	25.0		1	04/11/25	04/14/25	
Oil Range Organics (C28-C36)	ND	50.0		1	04/11/25	04/14/25	
Surrogate: n-Nonane		96.2 %	61-141		04/11/25	04/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2515113
Chloride	ND	20.0		1	04/11/25	04/11/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

SS04-0.5' E504093-24

		E504095-24					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Allarytt	Result	Limit			•	Anaryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: BA	L		Batch: 2515109
Benzene	ND	0.0250	1		04/11/25	04/11/25	
Ethylbenzene	ND	0.0250	1		04/11/25	04/11/25	
Toluene	ND	0.0250	1		04/11/25	04/11/25	
o-Xylene	ND	0.0250	1		04/11/25	04/11/25	
p,m-Xylene	ND	0.0500	1		04/11/25	04/11/25	
Total Xylenes	ND	0.0250	1		04/11/25	04/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130		04/11/25	04/11/25	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		04/11/25	04/11/25	
Surrogate: Toluene-d8		106 %	70-130		04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: BA			Batch: 2515109
Gasoline Range Organics (C6-C10)	ND	20.0	1		04/11/25	04/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130		04/11/25	04/11/25	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		04/11/25	04/11/25	
Surrogate: Toluene-d8		106 %	70-130		04/11/25	04/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KH	I		Batch: 2515116
Diesel Range Organics (C10-C28)	ND	25.0	1		04/11/25	04/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1		04/11/25	04/14/25	
Surrogate: n-Nonane		102 %	61-141		04/11/25	04/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RA	.S		Batch: 2515113
Chloride	ND	20.0	1		04/11/25	04/11/25	



Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: Project Number: 6488 7 Rivers Hwy 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 4/17/2025 10:39:11AM **Volatile Organic Compounds by EPA 8260B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2515109-BLK1) Prepared: 04/11/25 Analyzed: 04/11/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.515 0.500 103 70-130 Surrogate: 1,2-Dichloroethane-d4 0.477 0.500 95.4 70-130 0.500 104 70-130 Surrogate: Toluene-d8 0.519 LCS (2515109-BS1) Prepared: 04/11/25 Analyzed: 04/11/25 2.48 0.0250 2.50 99.0 70-130 Benzene 2.48 2.50 99.3 70-130 Ethylbenzene 0.0250 2.54 0.0250 2.50 102 70-130 70-130 2.70 0.0250 2.50 108 o-Xylene 5.37 5.00 107 70-130 p,m-Xylene 0.0500 8.08 0.0250 7.50 108 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.527 0.500 105 70-130 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 Surrogate: Toluene-d8 0.525 0.500 Matrix Spike (2515109-MS1) Source: E504091-01 Prepared: 04/11/25 Analyzed: 04/11/25 48-131 2.54 0.0250 2.50 ND 45-135 Ethylbenzene 2.59 0.0250 2.50 ND 104 ND 107 48-130 Toluene 2.67 0.0250 2.50 2.78 0.0250 2.50 ND 111 43-135 o-Xylene 5.49 ND 110 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 8.26 0.0250 7.50 ND 110 43-135 0.524 0.500 105 70-130 Surrogate: Bromofluorobenzene 0.500 98.7 70-130 Surrogate: 1,2-Dichloroethane-d4 0.494 0.500 70-130 0.529 Surrogate: Toluene-d8 Matrix Spike Dup (2515109-MSD1) Source: E504091-01 Prepared: 04/11/25 Analyzed: 04/11/25 2.51 0.0250 2.50 ND 100 48-131 1.21 23 0.0250 2.50 ND 45-135 1.91 27 Ethylbenzene ND 48-130 2.42 24 2.61 2.50 104 Toluene 0.0250 o-Xylene 2.83 0.0250 2.50 ND 113 43-135 1.98 27 5.00 ND 112 43-135 1.99 27 5.60 p,m-Xylene 0.0500 27 8.43 0.0250 7.50 ND 112 43-135 1.98



0.500

0.500

0.500

107

99.6

70-130

70-130

70-130

0.536

0.498

0.523

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 4/17/2025 10:39:11AM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2515108-BLK1) Prepared: 04/11/25 Analyzed: 04/11/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.43 8.00 105 70-130 LCS (2515108-BS1) Prepared: 04/11/25 Analyzed: 04/11/25 3.85 77.0 70-130 5.00 Benzene 0.0250 Ethylbenzene 3.79 0.0250 5.00 75.8 70-130 3.84 0.0250 5.00 76.8 70-130 Toluene 76.2 o-Xylene 3.81 0.0250 5.00 70-130 7.57 10.0 75.7 70-130 0.0500 p.m-Xvlene 75.9 70-130 11.4 15.0 Total Xylenes 0.0250 8.00 97.9 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.83 Matrix Spike (2515108-MS1) Source: E504093-05 Prepared: 04/11/25 Analyzed: 04/11/25 4.71 0.0250 5.00 ND 94.1 70-130 Benzene ND 70-130 Ethylbenzene 4.63 0.0250 5.00 92.6 Toluene 4.69 0.0250 5.00 ND 93.8 70-130 4.60 ND 91.9 70-130 5.00 0.0250 o-Xylene p,m-Xylene 9.19 0.0500 10.0 ND 91.9 70-130 13.8 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.79 8.00 Matrix Spike Dup (2515108-MSD1) Source: E504093-05 Prepared: 04/11/25 Analyzed: 04/11/25 4.11 0.0250 5.00 ND 82.2 70-130 13.6 27 ND 81.2 70-130 13.2 4.06 0.0250 5.00 26 Ethylbenzene Toluene 4.10 0.0250 5.00 ND 82.0 70-130 13.3 20 4.04 5.00 ND 80.8 70-130 12.8 25 o-Xylene 0.0250 23 8.09 10.0 ND 80.9 70-130 12.8 p,m-Xylene 0.0500 Total Xylenes 12.1 0.0250 15.0 ND 80.9 70-130 12.8 26

8.00

96.5

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.72

Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 4/17/2025 10:39:11AM Artesia NM, 88210 Project Manager: Ashley Giovengo

Nonhalogenated	Organics b	y EPA	8015D - GRO
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Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2515108-BLK1)							Prepared: 0	4/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			
LCS (2515108-BS2)							Prepared: 0	4/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			
Matrix Spike (2515108-MS2)				Source:	E504093-0	05	Prepared: 0	4/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			
Matrix Spike Dup (2515108-MSD2)				Source:	E504093-0	05	Prepared: 0	4/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	4.06	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130			



Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 4/17/2025 10:39:11AM Artesia NM, 88210 Project Manager: Ashley Giovengo

Nonhalogenated	Organics b	v EPA 8015D	- GRO

Anal	vst.	RA

Analyte Re	Reporting sult Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mį	/kg mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2515109-BLK1)							Prepared: 04	1/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			
LCS (2515109-BS2)							Prepared: 04	1/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130	<u> </u>		
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			
Matrix Spike (2515109-MS2)				Source:	E504091-	01	Prepared: 04	1/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			
Matrix Spike Dup (2515109-MSD2)				Source:	E504091-	01	Prepared: 04	1/11/25 Anal	yzed: 04/11/25
Gasoline Range Organics (C6-C10)	53.1	20.0	50.0	ND	106	70-130	0.111	20	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	•
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

Artesia NM, 88210		Project Manage	r: As	shley Giovens	go			4/17	7/2025 10:39:11AM
	Nonha	logenated Or	ganics by	EPA 80151) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2515114-BLK1)							Prepared: 04	4/11/25 Analy	yzed: 04/15/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	61-141			
LCS (2515114-BS1)							Prepared: 04	4/11/25 Anal	zed: 04/15/25
Diesel Range Organics (C10-C28)	248	25.0	250		99.3	66-144			
Surrogate: n-Nonane	50.6		50.0		101	61-141			
Matrix Spike (2515114-MS1)				Source:	E504093-	06	Prepared: 04	4/11/25 Anal	zed: 04/15/25
Diesel Range Organics (C10-C28)	15100	250	250	15500	NR	56-156			M4
Surrogate: n-Nonane	44.8		50.0		89.6	61-141			
Matrix Spike Dup (2515114-MSD1)				Source:	E504093-	06	Prepared: 04	4/11/25 Anal	zed: 04/15/25
Diesel Range Organics (C10-C28)	15100	250	250	15500	NR	56-156	0.0906	20	M4
Surrogate: n-Nonane	48.3		50.0		96.6	61-141			



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	_
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go			4.	/17/2025 10:39:11AN
	Nonhal	logenated Or	ganics by l	EPA 8015I	D - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2515116-BLK1)							Prepared: 0	4/11/25 An	alyzed: 04/14/25
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.2		50.0		98.3	61-141			
LCS (2515116-BS1)							Prepared: 0	4/11/25 An	alyzed: 04/14/25
Diesel Range Organics (C10-C28)	244	25.0	250		97.8	66-144			
urrogate: n-Nonane	48.6		50.0		97.3	61-141			
Matrix Spike (2515116-MS1)				Source:	E504093-2	21	Prepared: 0	4/11/25 An	alyzed: 04/14/25
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156			
urrogate: n-Nonane	48.7		50.0		97.5	61-141			
Matrix Spike Dup (2515116-MSD1)				Source:	E504093-2	21	Prepared: 0	4/11/25 An	alyzed: 04/14/25
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	56-156	3.17	20	
Jurrogate: n-Nonane	48.2		50.0		96.4	61-141			



Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Arcturus 18 Federal #006H 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/17/2025 10:39:11AM

Artesia NM, 88210		Project Manage	r: As	sniey Gioveng	go				4/17/2025 10:39:11A	.VI	
		Anions	by EPA 3	300.0/90 5 6 <i>E</i>	\				Analyst: RAS		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes		
Blank (2515113-BLK1)							Prepared: 0)4/11/25 <i>A</i>	Analyzed: 04/11/25		
Chloride	ND	20.0									
LCS (2515113-BS1)							Prepared: 0	04/11/25 A	Analyzed: 04/11/25		
Chloride	253	20.0	250		101	90-110					
Matrix Spike (2515113-MS1)				Source:	E504091-	06	Prepared: 0	14/11/25 A	Analyzed: 04/11/25		
Chloride	257	20.0	250	ND	103	80-120					
Matrix Spike Dup (2515113-MSD1)				Source:	E504091-	06	Prepared: 0	4/11/25 A	Analyzed: 04/11/25		

250

20.0

102

80-120

1.23

20

Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	Arcturus 18 Fed 1058-0007 Ashley Gioveng		H			Reported: 4/17/2025 10:39:11AM
		Anions	by EPA	300.0/9056	A				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	/0	/0	70	/0	ivotes
Blank (2515117-BLK1)							Prepared: 0	4/11/25 A	analyzed: 04/11/25
Chloride	ND	20.0							
LCS (2515117-BS1)							Prepared: 0	4/11/25 A	analyzed: 04/11/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2515117-MS1)				Source:	E504093-	05	Prepared: 0	4/11/25 A	nalyzed: 04/11/25
Chloride	407	20.0	250	156	100	80-120			
Matrix Spike Dup (2515117-MSD1)				Source:	E504093-	05	Prepared: 0	4/11/25 A	nalyzed: 04/11/25

250

20.0

80-120

96.9

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

	Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
1	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
l	Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/17/25 10:39

Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The M4

associated LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

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.

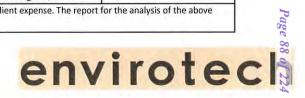
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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					PM

	C	lient In	nforma	ation			Invoice Informati	on				Lab	Us	e On	ly				TA	Т	State
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	Arcturus						ddress: 5315 Buena Vista D	a reason		E509	40	93)		58.	α	1			x	x
Committee of the	Manager:						ity, State, Zip: Carlsbad NM	1, 88220													
	3122 Na						ione: (575)689-7597				_			Ana	lysis	and	Met	hod			EPA Program
	te, Zip: Ca		NM, 8	38220			mail: jim.raley@dvn.com														SDWA CWA RCRA
	575-988-0					Mi	scellaneous: Jim Raley														
Email: a	giovengo(ensol	um.cc	om							115	8015									Compliance Y or N
-											36 80	39 80	21	0	0.0	Σ	×	tals			PWSID#
					Sam	ple Informat	ion				8	RO	y 80	₹826	le 30	Z	- 500	Me			
Time Sampled	Date Sampl	ed Ma	atrix	No. of Containers			Sample ID	Field	Lak Numi	ber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	MN - DOGD8	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
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1008	1/		1	1			1/-3		10		T					х					
	al Instruc	ions:	Plea	se CC: cl	ourton@e	ensolum.com	, agiovengo@ensolum.com	n, jim.rale	y@dvn	.com,	, cha	milt	on@	ens	olun	ı.cor	n, ie	strell	a@er	nsolum.	com
1.																177.4					777
All all the second of the second			lity and a	authenticit	y of this samp	le. I am aware th	at tampering with or intentionally mis	labeling the s	ample loc	ation, d	late or	r time	of col	lection	n is cor	nsidere	ed frau	d and i	may be	grounds fo	or legal action.
	_Israel Estre			7-		I	Terrare Augusta	-					_								
Relinquish	ed by: (Sign	ture)		Date	110/25	Time	Received by: (Signature)	viec 4	-10-2	5	Ime	110				sample	ed or re	ceived p			nust be received on ice the day they are vg temp above 0 but less than 6 °C on
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Sample Mat	rix: S - Soil, So	- Solid, S	ig - Sludg	ge, A - Aque	eous, O - Othe	er		Coi	ntainer	Type:	g-g	lass,	p - p	oly/p	olasti					- VOA	
							r arrangements are made. Hazaro			2.6.6.2.0.0	-		_								t for the analysis of the above
samples is	applicable o	nly to th	nose sai	mples rec	eived by the	laboratory with	n this COC. The liability of the labo	oratory is lin	nited to t	the am	ount	paid t	for o	n the	repor	t.		-			A STATE OF THE STA

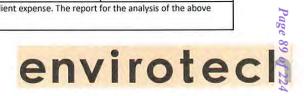




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Page _	1	of.

	Clien	t Inform	ation			Invoice Information			Lab Use Only								TA	T	State
Client: Devor	n				Co	ompany: Devon		La	b Wo	#	_	Job	Num	ber	-	1D	2D	3D Std	NM CO UT TX
Project: Arctu	urus 18 F	ederal #	006H		Ac	dress: 5315 Buena Vista	Dr	E	504	09.	3	00	58.1	000	1			х	x
Project Mana	ger: Ash	ley Giov	engo		Cit	ty, State, Zip: Carlsbad NN	M, 88220												
Address: 312	22 Nation	al Parks	Hwy		Pho	one: (575)689-7597						Ana	lysis	and	Met	hod			EPA Program
City, State, Zip	p: Carlsb	ad NM,	88220		Em	nail: jim.raley@dvn.com													SDWA CWA RCRA
Phone: 575-9					Mis	cellaneous: Jim Raley								M Y					
Email: agiove	engo@er	solum.c	om						115	115									Compliance Y or N
_									oy 80	3y 8C	21	00	0.00	Σ	×	tals			PWSID#
				Sam	ple Information	on	1 .	1	- 8	I ON	y 80	y 826	Je 30	Z - 2	- 500	3 Me			Documents.
Time Sampled Date	Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numbe	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			Remarks
1014 4	19/25	501	1		B	404-01		4						x					
1015	1	1	1			V -0-51		12						x					
1017					B	1405-01		13						х					
1017						¥ -0.5¹	j.	14						х					
1018					P	SH06-01		15						х					
1019						V 0.51		10						х					
1242					-	5501-01		17						х					
1294						V -11		18						х					
1245						5502-01		19						х					
1298	V	1	1			¥-1'		20						х					
	struction	ns: Plea	se CC: c	burton@e	ensolum.com,	, agiovengo@ensolum.co	m, jim.raley	@dvn.	com, c	hami	lton(@ens	olun	n.cor	n, ies	strell	a@e	nsolum.	com
						Water and the second													
A CONTRACTOR OF THE PROPERTY O		validity and	authenticit	y of this samp	le. I am aware tha	at tampering with or intentionally m	islabeling the sa	mple locat	tion, date	or tim	e of co	llectio	n is cor	nsidere	d frau	d and	may be	grounds fo	or legal action.
Sampled by: _Israe	100		In-		IT	[p	Date		Time					Samul	or roqui	iring the	ormal pr	erenation n	nust be received on ice the day they are
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Relinquished by:	: (Signatur	e)	Date		Time	Received/by: (Signature)	Date	100	Time	100	7	1		subsec	went da	avs	-	Lab U	Ise Only
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						r arrangements are made. Haza									e clier	nt exp	ense.	The repor	t for the analysis of the above





6	Clier	nt Inform	ation				Invoice	Information				La	b Us	e On	ly				TAT			Stat	e
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	Arcturus 18 I	ederal #	006H					na Vista Dr		_ F	504	093	3 1	DIC	58.	-0007 ×				_	×	00 01	170
Project I	Manager: Ash	ley Giov	engo					Isbad NM, 8	8220													-	
Address	3122 Nation	al Parks	Hwy		Pho	ne: (57	5)689-75	97				Analysis and Method EPA Program											
	e, Zip: Carlsl		88220		Ema	ail: jim.	raley@d	vn.com													SDWA	CWA	RCRA
	575-988-0055				Misc	ellaneo	us: Jim R	aley											9 1				
Email: a	giovengo@er	nsolum.c	om								215	315							9 4	_	omplian	e Y	or N
				Campulati							Py 80	ру 80	121	09	0.00	Σ	X	stals		F	PWSID #		
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Time Sampled	Date Sampled	Matrix	No. of Container		3	Sample I	D		Field	Numb		GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Kemark	•
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, (field sam	oler), attest to the	validity and	authentic	y of this sample. I ar	n aware that	tampering	with or inte	ntionally mislab	eling the sa	imple loca	tion, date	or time	e of co	llection	is cor	sidere	d frau	d and ma	be ground	ds for le	gal action.		
ampled by	_israel Estrelia																						
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ennquish	ed by: (Signature	e)	Dat	Time		Received	by: (Signa	ture)	Date		Time					AVIC	Torr	p°C_	1				
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envirotecial environment expense. The report for the analysis of the above

envirotech Inc.

Printed: 4/11/2025 8:49:20AM

Envirotech Analytical Laboratory

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:	Devon Energy - Carlsbad	Date Received:	04/10/25 2	23:30		Work Order ID:	E504093
Phone:	(505) 382-1211	Date Logged In:	04/10/25 1	5:27		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	04/17/25	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mate	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrian C	Yazami'an		
	e COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes	Carrier: <u>C</u>	<u>ourier</u>		
	Il samples received within holding time?	ied anaryses:	Yes				
s. Word a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		103			Comments	s/Resolution
Sample T	Turn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
		temperature. 1	<u> </u>				
	<u>Container</u> queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat		ers conected:	165				
•	field sample labels filled out with the minimum infor	rmation:					
	ample ID?	mation.	Yes				
	pate/Time Collected?		Yes	l			
C	ollectors name?		Yes				
Sample P	Preservation_						
21. Does	the COC or field labels indicate the samples were pro-	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filtration required and/or requested for dissolved me	tals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	e?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	v?	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	. NIA		
		so wie.	1171	Subcontract Lab	, IVA		
Client Ir	<u>nstruction</u>						
L							

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Arcturus 18 Federal #006H

Work Order: E505215

Job Number: 01058-0007

Received: 5/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/27/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/27/25

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Arcturus 18 Federal #006H

Workorder: E505215

Date Received: 5/20/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/20/2025 7:45:00AM, under the Project Name: Arcturus 18 Federal #006H.

The analytical test results summarized in this report with the Project Name: Arcturus 18 Federal #006H 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

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rainaschwanz@envirotech-inc.com

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Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Donoutode
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/27/25 14:34

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
FS03-3'	E505215-01A	Soil	05/16/25	05/20/25	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/27/2025 2:34:01PM

FS03-3' E505215-01

		E303213-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521043
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521043
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2521073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		103 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2521069
Chloride	95.8	20.0	1	05/20/25	05/21/25	



Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 5/27/2025 2:34:01PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521043-BLK1) Prepared: 05/20/25 Analyzed: 05/22/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.01 8.00 100 70-130 LCS (2521043-BS1) Prepared: 05/20/25 Analyzed: 05/22/25 4.93 5.00 98.5 70-130 Benzene 0.0250 Ethylbenzene 4.90 0.0250 5.00 98.0 70-130 4.90 0.0250 5.00 98.1 70-130 Toluene 97.0 o-Xylene 4.85 0.0250 5.00 70-130 9.93 10.0 99.3 70-130 0.0500 p.m-Xvlene 98.5 70-130 14.8 15.0 Total Xylenes 0.0250 8.00 100 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.01 Matrix Spike (2521043-MS1) Source: E505212-26 Prepared: 05/20/25 Analyzed: 05/22/25 4.96 0.0250 5.00 ND 99.1 70-130 Benzene ND 98.2 70-130 Ethylbenzene 4.91 0.0250 5.00 Toluene 4.93 0.0250 5.00 ND 98.5 70-130 4.88 ND 97.5 70-130 5.00 0.0250 o-Xylene p,m-Xylene 9.93 0.0500 10.0 ND 99.3 70-130 14.8 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.92 8.00 Matrix Spike Dup (2521043-MSD1) Source: E505212-26 Prepared: 05/20/25 Analyzed: 05/22/25 4.99 0.0250 5.00 ND 70-130 0.743 27 4.97 ND 70-130 0.0250 5.00 99.5 1.31 26 Ethylbenzene Toluene 4 97 0.0250 5.00 ND 99.5 70-130 0.946 20 4.93 5.00 ND 98.6 70-130 1.08 25 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

101

100

96.1

70-130

70-130

70-130



1.39

1.28

23

26

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.1

15.0

7.69

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Arcturus 18 Federal #006H 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/27/2025 2:34:01PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			5/2	27/2025 2:34:01PN		
	Non	halogenated	Organics l	oy EPA 80	15D - Gl	RO			Analyst: SL		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes		
Blank (2521043-BLK1)							Prepared: 0:	5/20/25 Anal	lyzed: 05/22/25		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.70		8.00		109	70-130					
LCS (2521043-BS2)							Prepared: 0:	5/20/25 Ana	lyzed: 05/22/25		
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130					
Matrix Spike (2521043-MS2)				Source:	Source: E505212-26 Prepared:				: 05/20/25 Analyzed: 05/22/25		
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.92		8.00		111	70-130					
Matrix Spike Dup (2521043-MSD2)				Source:	E505212-2	26	Prepared: 0	5/20/25 Anal	lyzed: 05/22/25		
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0	ND	101	70-130	1.52	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.12		8.00		114	70-130					

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/27/2025 2:34:01PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				5/27/2025 2:34:01PN	
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: NV										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2521073-BLK1)							Prepared: 0	5/21/25 A	nalyzed: 05/23/25	
tiesel Range Organics (C10-C28)	ND	25.0								
vil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	51.2		50.0		102	61-141				
.CS (2521073-BS1)							Prepared: 0	5/21/25 A	nalyzed: 05/23/25	
riesel Range Organics (C10-C28)	274	25.0	250		110	66-144				
urrogate: n-Nonane	50.3		50.0		101	61-141				
Matrix Spike (2521073-MS1)				Source:	E505212-	24	Prepared: 0	5/21/25 A	nalyzed: 05/23/25	
riesel Range Organics (C10-C28)	283	25.0	250	ND	113	56-156				
urrogate: n-Nonane	52.6		50.0		105	61-141				
Matrix Spike Dup (2521073-MSD1)				Source:	E505212-	24	Prepared: 0	5/21/25 A	nalyzed: 05/23/25	
tiesel Range Organics (C10-C28)	281	25.0	250	ND	112	56-156	0.588	20		
urrogate: n-Nonane	51.7		50.0		103	61-141				



Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Arcturus 18 Fee	leral #006I	H			Reported:			
Artesia NM, 88210		Project Manager: Ashley Giovengo							5/27/2025 2:34:01PM			
		Anions	by EPA	300.0/9056 <i>E</i>	1				Analyst: RAS			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2521069-BLK1)							Prepared: 0	5/20/25 A	Analyzed: 05/21/25			
Chloride	ND	20.0										
LCS (2521069-BS1)							Prepared: 0	5/20/25 A	Analyzed: 05/21/25			
Chloride	254	20.0	250		102	90-110						
Matrix Spike (2521069-MS1)				Source:	E505212-2	22	Prepared: 0	5/20/25 A	Analyzed: 05/21/25			
Chloride	1330	20.0	250	1090	94.6	80-120						
Matrix Spike Dup (2521069-MSD1)				Source:	E505212-2	22	Prepared: 0	5/20/25 A	Analyzed: 05/21/25			
Chloride	1310	20.0	250	1090	87.9	80-120	1.27	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

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/27/25 14:34

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.



1	wiretech
Sei	nvirotech
	Analytical Laboratory

	Clie	nt Inform	ation		Invoice Information					La	b Us	e Or	ly				T	AT			St	tate			
Client: [Devon				Company: Dev	on Energy		Lab	WO	#		Job	Num	ber		1D	2D	3D	Std	NM	col	UT TX			
Project:	Arcturus 18 f	ederal #0	006Н		Address: 5315	Buena Vista Dr		_ E3	500	521	5	010	58.	CC	57			$\overline{}$	K	×					
Project I	Manager: As	hley Giov	engo		City, State, Zip:	Carlsbad NM, 882	20				-										•				
Address	3122 Natio	nal Parks	Hwy		Phone: (575)68	9-7597						Ana	nalysis and M			hod				E	EPA Program				
City, Sta	te, Zip: Carls	bad NM,	88220		Email: jim.raley@dvn.com						-								-	SDWA	CWA	A R	RCRA		
	575-988-005				Miscellaneous: J																				
	giovengo@e		om		Tribution and the state of the	in there y			LO.	2									1	Complian	ice	Y or	1 1		
									DRO/ORO by 8015	801	-6		0		5					PWSID #					
•		_		Sample Info	nformation					GRO/DRO by 8015	BTEX by 8021	260	Chloride 300.0	¥	TCEQ 1005 - TX	XT-0	RCRA 8 Metals		Z	×	F	41 -			
Time	Start Commence	ALCOY.	No. of				₽ a Lab			/DR	by	VOC by 8260	ride	100	100		BGDOC - NM	20		Samle Temp	R	Remarks	S		
Sampled	Date Sampled	Matrix	Containers		Sample ID		Field	Lab Number	ORO	SRO	E X	00	oh!	CEQ	CR/		Ogo	BGDOC-		Sa					
10:58	5/16/2025				FS03 - 3'			1			-	-	Ŭ	-	u.		1			1	1				
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Addition	nal Instructio	ns: Ple	ase CC: c	burton@ensolu	m.com, agiovengo	@ensolum.com, jir	n.rale	y@dvn.c	om, i	iestre	ella@	ense	olum	.con	n, ch	amilt	on@	enso	lum.	com,					
	to@ensolum																								
			authenticit	y of this sample. I am a	ware that tampering with	or intentionally mislabelin	g the sa	mple location	n, date	or tim	e of co	llectio	n is cor	nsider	ed frau	id and	may b	e groun	ds for l	egal action					
	:Oluwale Ad															1	_								
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Olly	sale A	deru	ito	5 19 25	08-15	The state of	Jones	K-II IN	169	9	1	12	2)	K	1		prese	ervation	must be	e receiv	red (
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envirotech Inc.

Printed: 5/20/2025 9:48:51AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

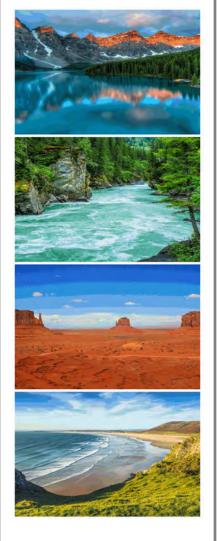
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	05/20/25	07:45		Work	Order ID:	E505215
Phone:	(505) 382-1211	Date Logged In:	05/19/25	14:16		Logge	ed In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/26/25	17:00 (4 d	lay TAT)			
Chain of	Custody (COC)							
1. Does tl	he sample ID match the COC?		Yes					
2. Does tl	he number of samples per sampling site location ma	atch the COC	Yes					
3. Were s	amples dropped off by client or carrier?		Yes	(Carrier: Cour	rier		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes		·			
5. Were a	ll samples received within holding time?		Yes					
	Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss						Comment	ts/Resolution
Sample T	<u> Turn Around Time (TAT)</u>							
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes					
Sample C	<u>Cooler</u>							
7. Was a	sample cooler received?		Yes					
8. If yes,	was cooler received in good condition?		Yes					
9. Was th	e 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 th	e sample received on ice?		Yes					
	Note: Thermal preservation is not required, if samples a	re received within	103					
	15 minutes of sampling							
13. See C	OC for individual sample temps. Samples outside of	of 0°C-6°C will be	recorded	in comm	ents.			
	<u>Container</u>							
	queous VOC samples present?		No					
	OC samples collected in VOA Vials?		NA					
	head space less than 6-8 mm (pea sized or less)?		NA					
17. Was a	trip blank (TB) included for VOC analyses?		NA					
	on-VOC samples collected in the correct containers		Yes					
19. Is the	appropriate volume/weight or number of sample contain	iners collected?	Yes					
Field Lal								
	field sample labels filled out with the minimum inf	ormation:	3.7					
	ample ID? eate/Time Collected?		Yes					
	follectors name?		Yes Yes					
	Preservation		103					
	the COC or field labels indicate the samples were p	reserved?	No					
	ample(s) correctly preserved?		NA					
	filtration required and/or requested for dissolved m	netals?	No					
Multipha	ase Sample Matrix							
	the sample have more than one phase, i.e., multipha	ase?	No					
	, does the COC specify which phase(s) is to be anal		NA					
		,, 2001	1121					
	act Laboratory	0	NT.					
	amples required to get sent to a subcontract laborate a subcontract laboratory specified by the client and	•	No	G 1	1 31	•		
	• • •	ii so wiio:	NA	Subcon	tract Lab: N.	А		
Client I	<u>nstruction</u>							

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Arcturus 18 Federal #006H

Work Order: E505216

Job Number: 01058-0007

Received: 5/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/27/25

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

Date Reported: 5/27/25

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Arcturus 18 Federal #006H

Workorder: E505216

Date Received: 5/20/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/20/2025 7:45:00AM, under the Project Name: Arcturus 18 Federal #006H.

The analytical test results summarized in this report with the Project Name: Arcturus 18 Federal #006H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Laboratory Technical Representative Office: 505-421-LABS(5227)

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Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	D	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/27/25 14:35	

Client Sample ID	Lab Sample ID Matrix	Sampled Received	Container
BF01	E505216-01A Soil	05/16/25 05/20/25	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/27/2025 2:35:04PM

BF01 E505216-01

		E303210-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2521043
Benzene	ND	0.0250	1	05/20/25	05/22/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/22/25	
Toluene	ND	0.0250	1	05/20/25	05/22/25	
o-Xylene	ND	0.0250	1	05/20/25	05/22/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/22/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/22/25	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	/kg mg/kg Analyst: SL			Batch: 2521043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	05/20/25	05/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	ng/kg mg/kg Analyst: NV			Batch: 2521073	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/23/25	
Surrogate: n-Nonane		99.3 %	61-141	05/21/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521069
Chloride	ND	20.0	1	05/20/25	05/21/25	



		QC 50	u 11111116	ary Dat	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	rcturus 18 Feo 1058-0007 shley Gioven		Н			Reported: 5/27/2025 2:35:04PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521043-BLK1)							Prepared: 0	5/20/25 A	nalyzed: 05/22/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			
LCS (2521043-BS1)							Prepared: 0	5/20/25 A	nalyzed: 05/22/25
Benzene	4.93	0.0250	5.00		98.5	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.90	0.0250	5.00		98.1	70-130			
o-Xylene	4.85	0.0250	5.00		97.0	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.8	0.0250	15.0		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			
Matrix Spike (2521043-MS1)				Source:	E505212-	26	Prepared: 0	5/20/25 A	nalyzed: 05/22/25
Benzene	4.96	0.0250	5.00	ND	99.1	70-130			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	70-130			
Toluene	4.93	0.0250	5.00	ND	98.5	70-130			
o-Xylene	4.88	0.0250	5.00	ND	97.5	70-130			
p,m-Xylene	9.93	0.0500	10.0	ND	99.3	70-130			
Total Xylenes	14.8	0.0250	15.0	ND	98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130	·		
Matrix Spike Dup (2521043-MSD1)				Source:	E505212-	26	Prepared: 0	5/20/25 A	nalyzed: 05/22/25
Benzene	4.99	0.0250	5.00	ND	99.8	70-130	0.743	27	
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	70-130	1.31	26	
Talvana	4 97	0.0250	5.00	ND	99.5	70-130	0.946	20	

5.00

5.00

10.0

15.0

0.0250

0.0250

0.0500

0.0250

ND

ND

ND

ND

99.5

98.6

101

100

70-130

70-130

70-130

70-130

70-130

20

25

23

26

0.946

1.08

1.39

1.28

4.97

4.93

10.1

15.0



Toluene

o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo5/27/20252:35:04PM

	Analyst: SL								
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2521043-BLK1)							Prepared: 0	5/20/25 Ana	lyzed: 05/22/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.70		8.00		109	70-130			

LCS (2521043-BS2)						Prepared: 05/20/25 Analyzed: 05/22/25
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	100	70-1	30
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00	10	70-1.	30
Matrix Spike (2521043-MS2)				Source: E5052	12-26	Prepared: 05/20/25 Analyzed: 05/22/25
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND 99.	70-1	30

Surrogate: 1-Chloro-4-fluorobenzene-FID	8.92		8.00		111	70-130				
Matrix Spike Dup (2521043-MSD2)				Source:	E505212-2	26	Prepared: 05	5/20/25 Ana	alyzed: 05/22/25	
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0	ND	101	70-130	1.52	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.12		8.00		114	70-130				

Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo5/27/20252:35:04PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				5/27/2025 2:35:04PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521073-BLK1)							Prepared: 0:	5/21/25 Aı	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.2		50.0		102	61-141			
LCS (2521073-BS1)							Prepared: 0:	5/21/25 Aı	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	274	25.0	250		110	66-144			
Surrogate: n-Nonane	50.3		50.0		101	61-141			
Matrix Spike (2521073-MS1)				Source:	E505212-	24	Prepared: 0:	5/21/25 Aı	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	56-156			
Surrogate: n-Nonane	52.6		50.0		105	61-141			
Matrix Spike Dup (2521073-MSD1)				Source:	E505212-	24	Prepared: 0	5/21/25 Aı	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	56-156	0.588	20	
Surrogate: n-Nonane	51.7		50.0		103	61-141			

Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Arcturus 18 Fee	leral #006I	H			Reported:	
Artesia NM, 88210		Project Manager		Ashley Gioveng	go				5/27/2025 2:35:04PM	İ
		Anions	by EPA	300.0/9056	4				Analyst: RAS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2521069-BLK1)							Prepared: 0:	5/20/25	Analyzed: 05/21/25	
Chloride	ND	20.0								
LCS (2521069-BS1)							Prepared: 0	5/20/25	Analyzed: 05/21/25	
Chloride	254	20.0	250		102	90-110				
Matrix Spike (2521069-MS1)				Source:	E505212-2	22	Prepared: 0:	5/20/25	Analyzed: 05/21/25	
Chloride	1330	20.0	250	1090	94.6	80-120				
Matrix Spike Dup (2521069-MSD1)				Source:	E505212-2	22	Prepared: 0:	5/20/25	Analyzed: 05/21/25	

250

20.0

1090

87.9

80-120

1.27

1310

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

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/27/25 14:35

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.



Released to Imaging: 8/19/2025 7:15:51 AM

Chain of Custody

	Clie	nt Inform	ation		Inv	oice Information				La	b Us	e Or	ily				T	AT.			St	ate	
Client: D	evon				Company: De	evon Energy		Lab	WO	†			Numl			1D	2D	3D	Std	NN	1 CO L	T TX	
Project:	Arcturus 18 F	ederal #0	006H		Address: 531	5 Buena Vista Dr		E-	505	211	0	00	58.	an	7		A.	_	х	x			
Project N	Aanager: Asl	nley Giov	engo		City, State, Zir	: Carlsbad NM, 882	20			-		-		-	-								
Address:	3122 Natio	nal Parks	Hwy		Phone: (575)6	89-7597						Ana	lysis	and	Met	thod				E	PA Pro	gram	
	e, Zip: Carls				Email: jim.ral	ev@dvn.com					1	-							7 37	SDWA	CWA	R	CRA
	575-988-005				Miscellaneous:																		
	giovengo@e		om		Tribucii di inculari	Juli Haley			LO.	2										Complian	nce	y or	1
					~				801	801	L.		0	33	50					PWSID #			
-				Sample In	formation				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		¥	×					
Time	(J V L D)	- Anna II	No. of		A Control		0 6	Lab	98	/DR	, by	by 8	ride	100	7 8		BGDOC - NM	20-1		Samle Temp	R	emarks	
Sampled	Date Sampled	Matrix	Containers		Sample ID		Fie	Lab Number	DRO	GRO	BTE	VOC	Chlo	CEO	RCR.		BGDG	BGDOC-		Sa			
12:32	5/16/2025	1 32	4		BF01			,			1									11.			
12.52	345000000	1	1		5.01			1						1. 1	-		X			1.6	1		
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Addition	nal Instructio	ns: Ple	ase CC: cl	burton@ensol	um.com, agiovengo	@ensolum.com, jin	n.rale	y@dvn.d	om, i	estre	ella@	ensi	olum	.com	n, ch	amilt	on@	ensc	lum	.com,			
1,140,210,170,00	to@ensolum																3000						
					n aware that tampering wit	h or intentionally mislabelin	g the sa	mple location	n, date	or time	e of co	ollectio	n is cor	nsidere	ed fra	ud and	may b	e groun	nds for	legal action	١.		
Sampled by	:Oluwale Ad	erinto																					
Relinquish	ed by: (Signatur		V I	Date	Time	Received by: (Signat	ıre)	17	17	Date	11	2 ~		Time	1		6		TO P	Samples	requiring	therm	al
Dlu	wale F	Jolev	into	08/19/8	15 08:15	18 WOT	Tru	1		5	1	1-	25	1		1			pres	ervation	must be	receiv	ed o
Relinquish	ed by: (Signatur	e)	_	Date	Time	Received by: (Signat	ure)	1		Date				Time	11	1			ice	the day t	they are	sample	d or
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Relinquish	ed by: (Fignatur	91		Date	Time	Received by: (Signat	ure)	9/		Date	0.	2	_	Time		~			a	bove 0 bi	ut less th	an 6°C	on
n l	[] ·	М.		5.19.20	5 2230	1 a. Ali	1	ALA		5	ZC	1.7	5	1	45	5				subs	equent o	lays.	
Relinquish	ed by: (Signatur	e)		Date	Time	Beceived by: Signat	150)	SAN-		Date				Time						Lal	Use O	nly	
	2007 200																			Rece	ived on	ice:	
Relinquish	ed by: (Signatur	e)		Date	Time	Received by: (Signat	ure)			Date				Time							(X) N		
	44.13	Ž.			-																~		
	Priv. S - Soil Sd - S	olid Se - Slu	dge A - Aque	ous, O - Other			Cor	tainer Ty	Je. b -	plass	n - 1	noly/	plastic	ag.	- aml	ber gl	ass, v	- VO.	A				

envirotech Inc.

Printed: 5/20/2025 9:51:12AM

Envirotech Analytical Laboratory

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:	Devon Energy - Carlsbad	Date Received:	05/20/25	07:45		Work Order ID:	E505216
Phone:	(505) 382-1211	Date Logged In:	05/19/25	14:19		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/26/25	17:00 (4 day TAT)		,	
Chain of	Custody (COC)						
1. Does tl	he sample ID match the COC?		Yes				
2. Does tl	he number of samples per sampling site location ma	atch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier:	Courier_		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes				
5. Were a	ill samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss					Comment	s/Resolution
Sample T	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e 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 th	ne sample received on ice?		Yes				
	Note: Thermal preservation is not required, if samples a	re received within	105				
	15 minutes of sampling						
13. See C	COC for individual sample temps. Samples outside	of 0°C-6°C will be	recorded	in comments.			
	Container_						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct container	s?	Yes				
19. Is the	appropriate volume/weight or number of sample conta	iners collected?	Yes				
Field Lal							
	field sample labels filled out with the minimum inf	formation:	**				
	ample ID? Date/Time Collected?		Yes				
	Collectors name?		Yes Yes				
	Preservation		103				
	the COC or field labels indicate the samples were	reserved?	No				
	ample(s) correctly preserved?		NA				
	filtration required and/or requested for dissolved n	netals?	No				
Multinhe	ase Sample Matrix						
	the sample have more than one phase, i.e., multiph	ase?	No				
	, does the COC specify which phase(s) is to be ana		NA				
-		tyzed.	INA				
	ract Laboratory		3.7				
	amples required to get sent to a subcontract laborate	•	No				
29. Was a	a subcontract laboratory specified by the client and	if so who?	NA	Subcontract La	b: NA		
Client II	<u>nstruction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Arcturus 18 Federal #006H

Work Order: E505235

Job Number: 01058-0007

Received: 5/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/28/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/28/25

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Arcturus 18 Federal #006H

Workorder: E505235

Date Received: 5/21/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2025 8:00:00AM, under the Project Name: Arcturus 18 Federal #006H.

The analytical test results summarized in this report with the Project Name: Arcturus 18 Federal #006H 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

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ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported.
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/28/25 09:43

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01-4'	E505235-01A Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
FS02-4'	E505235-02A Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
FS04-4'	E505235-03A Soil	05/19/25	05/21/25	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/28/2025 9:43:36AM

FS01-4' E505235-01

		E303233-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2521077
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
Surrogate: n-Nonane		119 %	61-141	05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2521124
Chloride	126	20.0	1	05/22/25	05/23/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/28/2025 9:43:36AM

FS02-4' E505235-02

	12002200 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: BA		Batch: 2521088
ND	0.0250	1	05/21/25	05/23/25	
ND	0.0250	1	05/21/25	05/23/25	
ND	0.0250	1	05/21/25	05/23/25	
ND	0.0250	1	05/21/25	05/23/25	
ND	0.0500	1	05/21/25	05/23/25	
ND	0.0250	1	05/21/25	05/23/25	
	109 %	70-130	05/21/25	05/23/25	
mg/kg	mg/kg	Analy	yst: BA		Batch: 2521088
ND	20.0	1	05/21/25	05/23/25	
	102 %	70-130	05/21/25	05/23/25	
mg/kg	mg/kg	Analy	yst: NV		Batch: 2521077
ND	25.0	1	05/21/25	05/27/25	
ND	50.0	1	05/21/25	05/27/25	
	110 %	61-141	05/21/25	05/27/25	
mg/kg	mg/kg	Analy	yst: RAS		Batch: 2521124
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 20.0 102 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 109 % 70-130 70-130 mg/kg mg/kg Analy ND 20.0 1 102 % 70-130 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1	Reporting Result Limit Dilution Prepared mg/kg Manalyst: BA ND 0.0250 1 05/21/25 ND 0.0250 1 05/21/25 ND 0.0250 1 05/21/25 ND 0.0250 1 05/21/25 ND 0.0500 1 05/21/25 ND 0.0250 1 05/21/25 mg/kg Malyst: BA ND 20.0 1 05/21/25 mg/kg Analyst: BA ND 20.0 1 05/21/25 mg/kg Analyst: NV ND 25.0 1 05/21/25 ND 50.0 1 05/21/25	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 05/21/25 05/23/25 ND 0.0500 1 05/21/25 05/23/25 ND 0.0250 1 05/21/25 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/21/25 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/21/25 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/21/25 05/27/25 ND 50.0 1 05/21/25 05/27/25



Sample Data

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/28/2025 9:43:36AM

FS04-4'

E505235-03												
		Reporting										
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes						
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Notes Batch: 2521088 Batch: 2521088						
Benzene	ND	0.0250	1	05/21/25	05/23/25							
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25							
Toluene	ND	0.0250	1	05/21/25	05/23/25							
o-Xylene	ND	0.0250	1	05/21/25	05/23/25							
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25							
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25							
Surrogate: 4-Bromochlorobenzene-PID		110 %	70-130	05/21/25	05/23/25							
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2521088						
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25							
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	05/21/25	05/23/25							
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2521077						
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25							
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25							
Surrogate: n-Nonane		114 %	61-141	05/21/25	05/27/25							
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2521124						
Chloride	65.6	20.0	1	05/22/25	05/23/25							



Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 5/28/2025 9:43:36AM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521088-BLK1) Prepared: 05/21/25 Analyzed: 05/23/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.35 8.00 104 70-130 LCS (2521088-BS1) Prepared: 05/21/25 Analyzed: 05/23/25 4.81 96.3 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.76 0.0250 5.00 95.2 70-130 4.81 0.0250 5.00 96.2 70-130 Toluene 93.7 o-Xylene 4.68 0.0250 5.00 70-130 9.59 10.0 95.9 70-130 0.0500 p.m-Xvlene 95.2 70-130 14.3 15.0 Total Xylenes 0.0250 8.00 108 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.65 Matrix Spike (2521088-MS1) Source: E505233-06 Prepared: 05/21/25 Analyzed: 05/23/25 5.32 0.0250 5.00 ND 70-130 Benzene 5.23 ND 105 70-130 Ethylbenzene 0.0250 5.00 Toluene 5.30 0.0250 5.00 ND 106 70-130 ND 103 70-130 5.16 5.00 0.0250 o-Xylene p,m-Xylene 10.5 0.0500 10.0 ND 105 70-130 15.7 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.62 8.00

Source: E505233-06

111

109

111

108

110

109

108

70-130

70-130

70-130

70-130

70-130

70-130

70-130

4.31

4.41

4 38

4.43

4.42

4.42

ND

ND

ND

ND

ND

ND



Prepared: 05/21/25 Analyzed: 05/23/25

27

26

20

25

23

26

Matrix Spike Dup (2521088-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

5.55

5.47

5 54

5.40

11.0

16.4

8.62

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

Surrogate: 1-Chloro-4-fluorobenzene-FID

8.19

QC Summary Data

Arcturus 18 Federal #006H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			5/2	8/2025 9:43:36AM					
	Non	halogenated	Organics l	by EPA 80	15D - G	RO		Analyst: BA						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes					
Blank (2521088-BLK1)							Prepared: 0	5/21/25 Anal	yzed: 05/23/25					
Gasoline Range Organics (C6-C10)	ND	20.0												
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130								
LCS (2521088-BS2)							Prepared: 0	5/21/25 Anal	yzed: 05/23/25					
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.5	70-130								
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00		103	70-130								
Matrix Spike (2521088-MS2)				Source:	E505233-	06	Prepared: 0	5/21/25 Anal	yzed: 05/23/25					
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130								
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		103	70-130								
Matrix Spike Dup (2521088-MSD2)				Source:	E505233-	06	Prepared: 0	5/21/25 Anal	yzed: 05/23/25					
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130	3.54	20						

8.00

102

70-130

Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo5/28/20259:43:36AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				5/28/2025 9:43:36AN				
	Nonhal	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO	Analyst: NV						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes				
Blank (2521077-BLK1)							Prepared: 0	5/21/25 A	nalyzed: 05/27/25				
Diesel Range Organics (C10-C28)	ND	25.0											
Dil Range Organics (C28-C36)	ND	50.0											
urrogate: n-Nonane	55.2		50.0		110	61-141							
LCS (2521077-BS1)							Prepared: 0	5/21/25 A	nalyzed: 05/27/25				
Diesel Range Organics (C10-C28)	291	25.0	250		116	66-144							
urrogate: n-Nonane	51.3		50.0		103	61-141							
Matrix Spike (2521077-MS1)				Source:	E505238-	02	Prepared: 0	5/21/25 A	nalyzed: 05/27/25				
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	56-156							
urrogate: n-Nonane	55.5		50.0		111	61-141							
Matrix Spike Dup (2521077-MSD1)				Source:	E505238-	02	Prepared: 0	5/21/25 A	nalyzed: 05/27/25				
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	56-156	3.33	20					
'urrogate: n-Nonane	56.5		50.0		113	61-141							

Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Arcturus 18 Fee	leral #006I	Η			Reported:	
Artesia NM, 88210		Project Manager		Ashley Gioveng	go				5/28/2025 9:43:36AM	
	Anions by EPA 300.0/9056A									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2521124-BLK1)							Prepared: 0:	5/22/25	Analyzed: 05/23/25	
Chloride	ND	20.0								
LCS (2521124-BS1)							Prepared: 0	5/22/25	Analyzed: 05/23/25	
Chloride	258	20.0	250		103	90-110				
Matrix Spike (2521124-MS1)				Source: E505229-04 P				5/22/25	Analyzed: 05/23/25	
Chloride	282	20.0	250	29.0	101	80-120				
Matrix Spike Dup (2521124-MSD1)				Source:	E505229-	04	Prepared: 0:	5/22/25	Analyzed: 05/23/25	

250

20.0

102

80-120

0.838

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

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/28/25 09:43

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.



8	
1	anviratach
1	envirotech
	Analytical Laboratory

	Clie	nt Inform	nation			Invoice Information Company: Devon Energy						La	b Us	e On	ly		1			AT		State				
Client: D	evon				Company	y: Devon	Energy		L	ab W	VO#			Job I	Vuml	ber		1D	2D	3D	Std	1	MV	co	UT	TX
Project:	Arcturus 18	Federal C	006Н		Address	: 5315 Bue	ena Vista Dr		E	E50	15	731	5	OIG	58.0	ax	7				x	2	(
Project N	lanager: As	hley Giov	engo		City, Sta	te, Zip: Ca	rlsbad NM, 882	20	/					3.0												
Address:	3122 Natio	nal Parks	Hwy		Phone: ((575)689-7	597							Ana	lysis	and	Met	hod					EP	A Pro	gran	ń
	e, Zip: Carls				Email: ii	im.raley@c	dvn.com							17								SDV	VA	CW	A	RCRA
Phone: 5	75-988-005	5				eous: Jim F								8.0								1.0				1 1/3/
Email: a	giovengo@e	nsolum.c	om								5	12										Comp	liano	e	Y	or N
											801	803	-		0	×	sis			1 1	-	PWS	D#			
				Sample	Information						O b	0 6	802	8260	300	XT - 8	Met		Z	×	ſ	e	d			
Time Sampled	Date Sampled	Matrix	No. of Containers		Samp	le ID		Field	Lab	ber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Samle	Tem		Rema	irks
11:20	5/19/2025	S	1		FS01	4'			1										х			2.0	1			
11:21	5/19/2025	S	1		FS02	2 - 4'			2										х			1,4				
11:23	5/19/2025	S	1		FS04	- 4'			3	,									х			2.1				
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			[[-]																							
1302330,000	al Instruction				olum.com, agio	vengo@er	nsolum.com, jii	n.rale	y@dvi	n.cor	m, i	estre	lla@	enso	olum	.com	, cha	amil	ton@	Penso	lum	.com				
I, (field sam	pler), attest to th	e validity an	d authenticit	y of this sample. I	am aware that tampe	ering with or int	tentionally mislabelin	g the sa	mple loca	ation,	date	or time	of co	llectio	n is cor	nsidere	ed frau	d and	may b	e grour	nds for	legal a	ction.			
Sampled by	Oluwale Ad	derinto																								
Relinquish	ed by: (Signatu	re)		Date	Time	R	eceived by: (Signat	ure)	. 1	Care.		Date	-7	1	1	Time	n	11	1			Sampl	es re	quirin	g the	ermal
Olun	Jale Ar	26812	ito	5/20/2	5 08:	15	Asset Of A	11/	4	1.1)	L	0 2	47	1	U.	7.	1							eived or
Relinquish	ed by: (Signatu	re)		5.20	Time 7	11 R	eceived by (Signat	ure)			- 17	Date				Time		,								ipled or
-12	Millionthi	111	and I leaved	5.20	25 110	10 6	Theology	1	00			_	.1.	0 . 7	-5		/	ی	0		27.7					t a temp
Relinquist	ed by: Signatu	re)	1 -62	S.20.	25 7.7	300	eceived by 19 gna	ULE	av	r	0	Date 5	21	.2	5	Time	C	0			a			less t quent		6°C on
Relinquish	ed by: (Signatu	re)		Date	Time		eceived by: (Signat	ure)				Date	-			Time	, ,						Lab	Use C	Only	
																						R	ecei	ved o	n ice	i i
Relinquish	ed by: (Signatu	re)		Date	Time	R	eceived by: (Signa	ure)				Date				Time								у)/ N		
Sample Ma	rix: S - Soil, Sd - S	Solid, Se - Slu	idge, A - Aqu	eous, O - Other				Con	tainer	Type:	: g -	glass	p - 1	ooly/g	olastic	c, ag	- amb	oer g	lass, v	/ - VO	A					
Note: Sam	ples are discare	ded 14 days	s after resul	ts are reported u	inless other arrange	ements are m	ade. Hazardous sa	mples	will be r	return	ed to	clien	t or d	lispos	ed of a	t the	client	expe	nse. 1	The rep	ort fo	r the a	nalys	is of th	ne abo	ove

envirotech Inc.

Printed: 5/21/2025 9:30:41AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

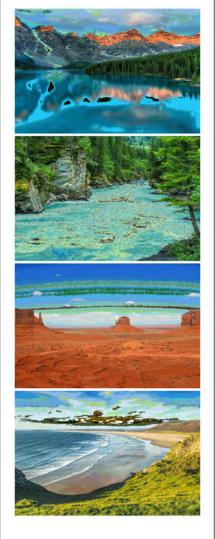
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Devon Energy - Carlsbad	Date Received:	05/21/25	00.00		WIOLD	E505225
		05/21/25			Work Order ID:	E505235
Phone: (505) 382-1211	Date Logged In:	05/20/25			Logged In By:	Caitlin Mars
Email: agiovengo@ensolum.com	Due Date:	05/28/25	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 s	ite location match the COC	Yes				
3. Were samples dropped off by client or carri		Yes	Carrier: C	'armian		
4. Was the COC complete, i.e., signatures, dat		Yes	Carrier. <u>C</u>	<u>ourrer</u>		
5. Were all samples received within holding ti		Yes				
Note: Analysis, such as pH which shou i.e, 15 minute hold time, are not include	ld be conducted in the field,	100			Comment	s/Resolution
Sample Turn Around Time (TAT)			ſ			
6. Did the COC indicate standard TAT, or Exp	edited TAT?	Yes				
Sample Cooler						
7. Was a sample cooler received?		Yes				
8. If yes, was cooler received in good condition	on?	Yes				
9. Was the sample(s) received intact, i.e., not b	oroken?	Yes				
10. Were custody/security seals present?		No				
11. If yes, were custody/security seals intact?		NA				
12. Was the sample received on ice?		Yes				
Note: Thermal preservation is not requi	red, if samples are received within	103				
13. See COC for individual sample temps. San	mples outside of 0°C-6°C will be	recorded	in comments.			
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 six	zed or less)?	NA				
17. Was a trip blank (TB) included for VOC at	nalyses?	NA				
18. Are non-VOC samples collected in the con	rrect containers?	Yes				
19. Is the appropriate volume/weight or number of	of sample containers collected?	Yes				
Field Label						
20. Were field sample labels filled out with the	e minimum information:	**				
Sample ID?		Yes	L			
Date/Time Collected? Collectors name?		Yes Yes				
Sample Preservation		105				
21. Does the COC or field labels indicate the s	samples were preserved?	No				
22. Are sample(s) correctly preserved?	r r	NA				
24. Is lab filtration required and/or requested t	for dissolved metals?	No				
Multiphase Sample Matrix						
26. Does the sample have more than one phase	e i.e. multinhase?	No				
27. If yes, does the COC specify which phase	-	NA				
	(b) is to be unaryzed.	INA				
Subcontract Laboratory	1 1	3.7				
28. Are samples required to get sent to a subco	· ·	No		3.7.4		
29. Was a subcontract laboratory specified by	the cheft and it so who?	NA	Subcontract Lab	: NA		
Client Instruction						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Arcturus 18 Federal #006H

Work Order: E505245

Job Number: 01058-0007

Received: 5/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/29/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/29/25

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Arcturus 18 Federal #006H

Workorder: E505245

Date Received: 5/22/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/22/2025 6:45:00AM, under the Project Name: Arcturus 18 Federal #006H.

The analytical test results summarized in this report with the Project Name: Arcturus 18 Federal #006H 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

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Donoutoda
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/29/25 08:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS05-0.5'	E505245-01A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS06-0.5'	E505245-02A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS07-0.5'	E505245-03A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS08-0.5'	E505245-04A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS09-0.5'	E505245-05A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS10-0.5'	E505245-06A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS11-0.5'	E505245-07A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS12-0.5'	E505245-08A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS13-0.5'	E505245-09A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS14-0.5'	E505245-10A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS15-0.5'	E505245-11A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS16-0.5'	E505245-12A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS17-0.5'	E505245-13A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS18-2'	E505245-14A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS19-2'	E505245-15A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS20-4'	E505245-16A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
FS21-4'	E505245-17A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS05-0.5' E505245-01

		E303243-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit	Dilution	Frepareu	Allatyzeu	riotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		103 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	46.6	20.0	1	05/23/25	05/23/25	

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS06-0.5' E505245-02

	1303243 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0500	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
	90.1 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
ND	20.0	1	05/22/25	05/23/25	
	97.2 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
ND	25.0	1	05/23/25	05/23/25	
ND	50.0	1	05/23/25	05/23/25	
	114 %	61-141	05/23/25	05/23/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
48.0	20.0	1	05/23/25	05/23/25	
	mg/kg ND mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 97.2 % mg/kg MD 25.0 ND 50.0 114 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 90.1 % 70-130 mg/kg mg/kg Anal ND 20.0 1 97.2 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 114 % 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0500 1 05/22/25 ND 0.0250 1 05/22/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 mg/kg mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 05/23/25 ND 0.0500 1 05/22/25 05/23/25 ND 0.0250 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 05/23/25 ND 25.0 1 05/23/25 05/23/25 ND 50.0 1 05/23/25 05/23/25 ND 50.0 1 05/23/25 05/23/25 ND 50.0 <



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS07-0.5' E505245-03

	E303243 05				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0500	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
	91.8 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
ND	20.0	1	05/22/25	05/23/25	
	96.5 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
ND	25.0	1	05/23/25	05/23/25	
ND	50.0	1	05/23/25	05/23/25	
	112 %	61-141	05/23/25	05/23/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
ND	20.0	1	05/23/25	05/23/25	·
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 91.8 % mg/kg mg/kg mg/kg ND 20.0 96.5 % mg/kg MD 25.0 ND 50.0 112 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 0.0250 1 91.8 % 70-130 mg/kg mg/kg Anal ND 20.0 1 Mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 112 % 61-141 mg/kg mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0500 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 mg/kg mg/kg Analyst: DT	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 05/23/25 ND 0.0250 1 05/22/25 05/23/25 ND 0.0250 1 05/22/25 05/23/25 ND 0.0500 1 05/22/25 05/23/25 ND 0.0250 1 05/22/25 05/23/25 ND 0.0250 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 05/23/25 ND 50.0 1 05/23/25 05/23/25 ND 50.0 1 05/23/25 05/23/25



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS08-0.5' E505245-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		107 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	ND	20.0	1	05/23/25	05/23/25	·



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS09-0.5' E505245-05

	E303243 03				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0500	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
	87.4 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
ND	20.0	1	05/22/25	05/23/25	
	96.0 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
ND	25.0	1	05/23/25	05/23/25	
ND	50.0	1	05/23/25	05/23/25	
	104 %	61-141	05/23/25	05/23/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
ND	20.0	1	05/23/25	05/23/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 87.4 % mg/kg MD 20.0 96.0 % mg/kg ND 25.0 ND 50.0 104 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 87.4 % 70-130 mg/kg mg/kg Anal ND 20.0 1 96.0 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 104 % 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0500 1 05/22/25 ND 0.0250 1 05/22/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 mg/kg mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 05/23/25 ND 0.0500 1 05/22/25 05/23/25 ND 0.0250 1 05/22/25 05/23/25 87.4 % 70-130 05/22/25 05/23/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: SL ND 25.0 1 05/22/25 05/23/25 ND 25.0 1 05/23/25 05/23/25 ND 50.0 1 05/23/25 05/23/25 ND 50.0 1 05/23/25 05/23/25 ND



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS10-0.5' E505245-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		105 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	ND	20.0	1	05/23/25	05/23/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS11-0.5' E505245-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		106 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	ND	20.0	1	05/23/25	05/23/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS12-0.5' E505245-08

	E303243 00				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: SL		Batch: 2521109
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
ND	0.0500	1	05/22/25	05/23/25	
ND	0.0250	1	05/22/25	05/23/25	
	91.8 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Analy	yst: SL		Batch: 2521109
ND	20.0	1	05/22/25	05/23/25	
	96.6 %	70-130	05/22/25	05/23/25	
mg/kg	mg/kg	Analy	yst: NV		Batch: 2521131
ND	25.0	1	05/23/25	05/23/25	
ND	50.0	1	05/23/25	05/23/25	
	106 %	61-141	05/23/25	05/23/25	
mg/kg	mg/kg	Analy	yst: DT		Batch: 2521135
ND	20.0	1	05/23/25	05/24/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 91.8 % mg/kg ND 20.0 96.6 % mg/kg ND 25.0 ND 50.0 106 % mg/kg mg/kg mg/kg	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 91.8 % 70-130 mg/kg mg/kg Analy ND 20.0 1 96.6 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 106 % 61-141 61-141 mg/kg mg/kg Analy	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0250 1 05/22/25 ND 0.0500 1 05/22/25 ND 0.0250 1 05/22/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 ND 50.0 1 05/23/25 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/22/25 05/23/25 ND 0.0500 1 05/22/25 05/23/25 ND 0.0250 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/22/25 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/23/25 05/23/25 ND 25.0 1 05/23/25 05/23/25 ND 50.0 1 05/23/25 05/23/25 ND 50.0 <



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS13-0.5' E505245-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		107 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	61.8	20.0	1	05/23/25	05/24/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS14-0.5' E505245-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2521109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		111 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	ND	20.0	1	05/23/25	05/24/25	



Ī	Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS15-0.5' E505245-11

		200210 11				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		104 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	ND	20.0	1	05/23/25	05/24/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS16-0.5' E505245-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		103 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	ND	20.0	1	05/23/25	05/24/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS17-0.5' E505245-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		101 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2521135
Chloride	ND	20.0	1	05/23/25	05/24/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS18-2'

E505245-14

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	66.3	25.0	1	05/23/25	05/23/25	T17
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		104 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2521135
				05/23/25	05/24/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS19-2'

E505245-15

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/23/25	
Toluene	ND	0.0250	1	05/22/25	05/23/25	
o-Xylene	ND	0.0250	1	05/22/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	05/22/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		105 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2521135
· · · · · · · · · · · · · · · · · · ·	70.1	20.0		05/23/25	05/24/25	<u> </u>



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS20-4' E505245-16

		E303243-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
oluene	ND	0.0250	1	05/22/25	05/24/25	
-Xylene	ND	0.0250	1	05/22/25	05/24/25	
,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		88.5 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	29.5	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		105 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2521135
Chloride	139	20.0	1	05/23/25	05/24/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

FS21-4' E505245-17

		E505245-17				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit	Dilution	ii Frepared	Allalyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2521109
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		86.5 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2521109
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2521131
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		104 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2521135
Chloride	1920	20.0	1	05/23/25	05/24/25	



QC Summary Data

Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 5/29/2025 8:44:29AM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521109-BLK1) Prepared: 05/22/25 Analyzed: 05/23/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.06 8.00 88.2 70-130 LCS (2521109-BS1) Prepared: 05/22/25 Analyzed: 05/23/25 5.03 101 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.98 0.0250 5.00 99.6 70-130 5.03 0.0250 5.00 101 70-130 Toluene o-Xylene 4.93 0.0250 5.00 98.5 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 99.9 70-130 15.0 15.0 Total Xylenes 0.0250 8.00 89.1 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.13 Matrix Spike (2521109-MS1) Source: E505245-05 Prepared: 05/22/25 Analyzed: 05/23/25 3.76 0.0250 5.00 ND 75.2 70-130 Benzene ND 70-130 Ethylbenzene 3.70 0.0250 5.00 73.9 Toluene 3.75 0.0250 5.00 ND 75.0 70-130 ND 73.2 70-130 3.66 5.00 0.0250 o-Xylene p,m-Xylene 7.49 0.0500 10.0 ND 74.9 70-130 11.1 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.06 8.00 Matrix Spike Dup (2521109-MSD1) Source: E505245-05 Prepared: 05/22/25 Analyzed: 05/23/25 4.06 0.0250 5.00 ND 81.2 70-130 7.74 27 70-130 8.37 4.02 0.0250 5.00 ND 80.4 26 Ethylbenzene Toluene 4.06 0.0250 5.00 ND 81.1 70-130 7 91 20 3.98 5.00 ND 79.5 70-130 8.37 25 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

81.3

80.7

89.3

70-130

70-130

70-130



23

26

8.26

8.29

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

8.13

12.1

7.15

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

Artesia NM, 88210		Project Manage		hley Gioveng	go			5/2	9/2025 8:44:29AN
	Non	halogenated	Organics l	oy EPA 80	15D - Gl	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2521109-BLK1)							Prepared: 0:	5/22/25 Anal	yzed: 05/23/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			
LCS (2521109-BS2)							Prepared: 0:	5/22/25 Anal	yzed: 05/23/25
Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			
Matrix Spike (2521109-MS2)				Source:	E505245-0	05	Prepared: 0	5/22/25 Anal	yzed: 05/23/25
Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.8	70-130			
Matrix Spike Dup (2521109-MSD2)				Source:	E505245-0	05	Prepared: 0	5/22/25 Anal	yzed: 05/23/25
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130	4.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/29/2025 8:44:29AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				5/29/2025 8:44:29AN
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: NV									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521131-BLK1)							Prepared: 0	5/23/25 A	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	61-141			
LCS (2521131-BS1)							Prepared: 0	5/23/25 A	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	309	25.0	250		124	66-144			
Surrogate: n-Nonane	52.3		50.0		105	61-141			
Matrix Spike (2521131-MS1)				Source:	E505245-0	02	Prepared: 0	5/23/25 A	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	319	25.0	250	ND	128	56-156			
Surrogate: n-Nonane	55.6		50.0		111	61-141			
Matrix Spike Dup (2521131-MSD1)				Source:	E505245-0	02	Prepared: 0	5/23/25 A	nalyzed: 05/23/25
Diesel Range Organics (C10-C28)	348	25.0	250	ND	139	56-156	8.52	20	
Surrogate: n-Nonane	58.5		50.0		117	61-141			



Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy		rcturus 18 Fed 1058-0007	leral #006I	I			Reported:		
Artesia NM, 88210		Project Number: Project Manager		shley Gioveng	go				5/29/2025 8:44:29AM
		Analyst: DT							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2521135-BLK1)							Prepared: 0	5/23/25 A	nalyzed: 05/23/25
Chloride	ND	20.0							
LCS (2521135-BS1)							Prepared: 0	5/23/25 A	nalyzed: 05/23/25
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2521135-MS1)				Source:	Source: E505245-05 Pre				nalyzed: 05/23/25
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2521135-MSD1)				Source:	E505245-	05	Prepared: 0	5/23/25 A	nalyzed: 05/23/25

250

20.0

102

80-120

0.218

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

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/29/25 08:44

T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.

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.



Released to Imaging: 8/19/2025 7:15:51 AM

	Clie	nt Inform	nation		In	voice Information				- 1	ab U	se On	ly			TAT				Stat	e
Client: D	evon				Company: De	evon Energy		_ L	ab WO	#		Job	Numb	er .	1	1D	2D	3D Std	NM	CO UT	TX
Project:	Arcturus 18 F	ederal #0	006H		Address: 531	5 Buena Vista Dr		_ E	50	05745 01058:000 X X								Fee II			
Project N	lanager: Ash	ley Giove	engo		City, State, Zi	p: Carlsbad NM, 8822	20			-											
Address:	3122 Nation	al Parks I	Hwy		Phone: (575)6	89-7597						Ana	lysis	and	Met	hod			E	PA Progra	am
City, State	e, Zip: Carlsh	ad NM, 8	38220		Email: jim.raley@dvn.com					1			ÌΤ			7 - 7			SDWA	CWA	RCRA
Phone: 5	75-988-0055		200		Miscellaneous:																
Email: ag	giovengo@er	solum.co	m		0.51256801129690000				10	l v									Complian	ce Y	or N
					*				8015	801	-		0	~	SIS				PWSID#		
				Sample Infor	mation				O by	0 6	802	8260	300	5.1	Meta		M	¥	9 0	M 1	
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID		Field	Lab Numb	10	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX	Samle Temp	Rer	marks
10:17	5/20/2025	S	1		FS05 - 0.5'												х		1.2		
10:16	5/20/2025	S	1		FS06 - 0.5'			2									х		id		
10:14	5/20/2025	S	1		FS07 - 0.5'			3								Н	х		1.2		
10:12	5/20/2025	S	1		FS08 - 0.5'			4									х		1. [
10:27	5/20/2025	S	1		FS09 - 0.5'			5									x		2.8		
10:25	5/20/2025	S	1		FS10 - 0.5'			10									x		0.9		
10:23	5/20/2025	S	1		FS11 - 0.5'			7									x		1.0		
10:22	5/20/2025	S	1		FS12 - 0.5'			8									x		2.1		
10:20	5/20/2025	S	1		FS13 - 0.5'			9					F				х		1.5		
10:28	5/20/2025	S	1		FS14 - 0.5'			10						T			x		1.8		
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Released to Imaging: 8/19/2025 7:15:51 AM

	Clie	nt Inform	nation		Invoice Information					Lab Use Only								TAT State				
Client: [Devon				Company: Dev	von Energy		_ La	ab W	/O#		_	Job 1	Vuml	ber	_	1D	2D	3D S	td NM	CO UT	TX
Project:	Arcturus 18 I	Federal #0	D06H		Address: 5315	Buena Vista Dr		_ [E 51	05	24	5	010	28.	∞				X	x		
	Manager: Ash					: Carlsbad NM, 8822	20	_					111									
100 100 100 100 100 100 100 100 100 100	3122 Nation				Phone: (575)68	39-7597		_		_			Ana	lysis	and	Met	hod				PA Progr	
	te, Zip: Carlsl		88220		Email: jim.rale	y@dvn.com														SDWA	CWA	RCRA
	575-988-0055				Miscellaneous: Ji	m Raley																1.00
Email: a	ail: agiovengo@ensolum.com							1	215	215									Complian	ce Y	or N	
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(6,111)				Sample Inform	mation		L .	Lab	_	ORO	ORO	by 80	γ 82	de 3	500	8 M		N.	¥.	Samle Temp	Po	marks
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID		Field	Numb	per	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX	Sar	Ne	Harks
10:30	5/20/2025	S	1		FS15 - 0.5'			11										x		2.1		
10:31	5/20/2025	S	1		FS16 - 0.5'			12										х		29		
10:33	5/20/2025	S	1		FS17 - 0.5'			13	5									x		2.0		
12:54	5/20/2025	S	1		FS18 - 2'			14										x		3.0		
12:52	5/20/2025	S	1		FS19 - 2'			15	5									x		1.6		
12:50	5/20/2025	S	1		FS20 - 4'			16)									x		2.1		
12:48	5/20/2025	S	1		FS21 - 4'			17										х		2.5		
Addition	nal Instruction	ns: Plea	ase CC: cb	urton@ensolum.co	om, agiovengo@e	nsolum.com, jim.ra	ley@	dvn.co	m, ie	estre	lla@	enso	olum	.com	, cha	milto	on@e	enso	lum.co	m, bmoir@	ensolum.	com
I, (field sam Sampled by	pler), attest to the	validity and	authenticity of	of this sample. I am aware	that tampering with or in	ntentionally mislabeling the	sample	location,	date o	or time	e of co	llectio	n is cor	sidere	d frau	d and n	nay be	groun	ds for leg	al action.		
Relinquish	ed by: (Signature	deri	nto	5 2 25	08:15	Received by: (Signatur	G	inso	des	,	Date 5	21	2:	Z	Time	180	15			Samples r preservation		
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	trix: S - Soil, Sd - So			us, O - Other are reported unless oth		and a Hanadawa samula														ne analysis of H	e ahove ca	mnles is

envirotech Inc.

Printed: 5/22/2025 7:31:18AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

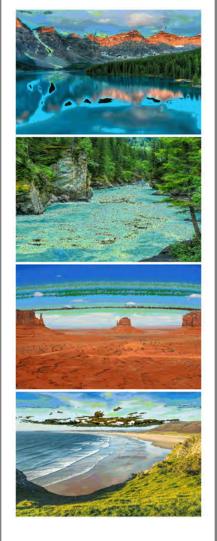
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	05/22/25	06:45		Work Order ID:	E505245
Phone:	(505) 382-1211	Date Logged In:	05/21/25	14:21		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/29/25	17:00 (4 day TAT	")		
Chain of	Custody (COC)						
1. Does tl	ne sample ID match the COC?		Yes				
2. Does tl	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier:	Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were a	ll samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi					Comment	s/Resolution
Sample T	Furn Around Time (TAT)	on.					
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C			105				
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?						
	• • • • • • • • • • • • • • • • • • • •		Yes				
	custody/security seals present?		No				
-	, were custody/security seals intact?		NA				
12. Was th	e sample received on ice?		Yes				
	Note: Thermal preservation is not required, if samples at 15 minutes of sampling	e received within					
13. See C	OC for individual sample temps. Samples outside of	f 0°C-6°C will be	recorded i	in comments.			
	Container_						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal	** *	nors conceicu.	105				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
	<u>Preservation</u>						
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filtration required and/or requested for dissolved m	etals?	No				
	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes	, does the COC specify which phase(s) is to be anal	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborate	ory?	No				
	subcontract laboratory specified by the client and i	•	NA	Subcontract L	ab: NA		
Client I	nstruction .						
CHERT	isti uction						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Arcturus 18 Federal #006H

Work Order: E505259

Job Number: 01058-0007

Received: 5/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/30/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/30/25

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Arcturus 18 Federal #006H

Workorder: E505259

Date Received: 5/23/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2025 7:30:00AM, under the Project Name: Arcturus 18 Federal #006H.

The analytical test results summarized in this report with the Project Name: Arcturus 18 Federal #006H 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

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Laboratory Administrator Office: 505-632-1881

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/30/25 11:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS22-0.5'	E505259-01A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS23-0.5'	E505259-02A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS24-0.5'	E505259-03A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS25-0.5'	E505259-04A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS26-0.5'	E505259-05A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS27-0.5'	E505259-06A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS28-0.5'	E505259-07A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS29-0.5'	E505259-08A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS30-0.5'	E505259-09A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS31-0.5'	E505259-10A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS32-0.5'	E505259-11A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS33-0.5'	E505259-12A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS34-0.5'	E505259-13A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS35-0.5'	E505259-14A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS36-4'	E505259-15A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS37-4'	E505259-16A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS38-4'	E505259-17A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS39-4'	E505259-18A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS40-4'	E505259-19A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS41-4'	E505259-20A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS42-0.5'	E505259-21A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
FS43-0.5'	E505259-22A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
SW01-0-4	E505259-23A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
SW02-0-4'	E505259-24A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
SW03-0-4'	E505259-25A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
SW04-0-4'	E505259-26A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
SW05-0-4'	E505259-27A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS22-0.5' E505259-01

		E303237-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/27/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/27/25	
Toluene	ND	0.0250	1	05/23/25	05/27/25	
o-Xylene	ND	0.0250	1	05/23/25	05/27/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/27/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/27/25	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	29.5	25.0	1	05/27/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/27/25	
Surrogate: n-Nonane		99.6 %	61-141	05/27/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2522014
Chloride	128	20.0	1	05/27/25	05/27/25	

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS23-0.5' E505259-02

	E303237 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0500	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
	98.5 %	70-130	05/23/25	05/27/25	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	20.0	1	05/23/25	05/27/25	
	89.7 %	70-130	05/23/25	05/27/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
ND	25.0	1	05/27/25	05/27/25	
ND	50.0	1	05/27/25	05/27/25	
	98.4 %	61-141	05/27/25	05/27/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
74.2	20.0	1	05/27/25	05/27/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 89.7 % mg/kg MD 25.0 ND 50.0 98.4 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 98.5 % 70-130 mg/kg mg/kg Anal ND 20.0 1 89.7 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 98.4 % 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0500 1 05/23/25 ND 0.0250 1 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 ND 25.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 ND 0.0500 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/27/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/27/25 mg/kg mg/kg Analyst: BA ND 25.0 1 05/23/25 05/27/25 ND 25.0 1 05/23/25 05/27/25 ND 50.0 1 05/27/25 05/27/25 ND 50.0 <



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS24-0.5' E505259-03

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
ND	0.0500	1	05/23/25	05/27/25	
ND	0.0250	1	05/23/25	05/27/25	
	96.7 %	70-130	05/23/25	05/27/25	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	20.0	1	05/23/25	05/27/25	
	91.9 %	70-130	05/23/25	05/27/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
ND	25.0	1	05/27/25	05/27/25	
ND	50.0	1	05/27/25	05/27/25	
	101 %	61-141	05/27/25	05/27/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
ND	20.0	1	05/27/25	05/27/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 91.9 % mg/kg ND 25.0 ND 50.0 101 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 96.7 % 70-130 mg/kg mg/kg Anal ND 20.0 1 91.9 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 101 % 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0500 1 05/23/25 ND 0.0250 1 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 ND 25.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 ND 0.0500 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 ND 0.0250 1 05/23/25 05/27/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/27/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/27/25 mg/kg mg/kg Analyst: BA ND 25.0 1 05/23/25 05/27/25 ND 25.0 1 05/23/25 05/27/25 ND 50.0 1 05/27/25 05/27/25 ND 50.0 <



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS25-0.5' E505259-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/27/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/27/25	
Toluene	ND	0.0250	1	05/23/25	05/27/25	
o-Xylene	ND	0.0250	1	05/23/25	05/27/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/27/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/27/25	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/27/25	
Surrogate: n-Nonane		99.4 %	61-141	05/27/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2522014
Chloride	ND	20.0	1	05/27/25	05/27/25	·



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS26-0.5' E505259-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/27/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/27/25	
Toluene	ND	0.0250	1	05/23/25	05/27/25	
o-Xylene	ND	0.0250	1	05/23/25	05/27/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/27/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/27/25	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.1 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/27/25	
Surrogate: n-Nonane		101 %	61-141	05/27/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
Chloride	96.6	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS27-0.5' E505259-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/27/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/27/25	
Toluene	ND	0.0250	1	05/23/25	05/27/25	
o-Xylene	ND	0.0250	1	05/23/25	05/27/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/27/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/27/25	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	05/23/25	05/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/27/25	
Surrogate: n-Nonane		97.6 %	61-141	05/27/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2522014
Chloride	382	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS28-0.5' E505259-07

	E303237 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0500	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
	96.4 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	20.0	1	05/23/25	05/28/25	
	88.2 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
ND	25.0	1	05/27/25	05/27/25	
ND	50.0	1	05/27/25	05/27/25	
	102 %	61-141	05/27/25	05/27/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
138	20.0	1	05/27/25	05/27/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MD 20.0 88.2 % mg/kg ND 25.0 ND 50.0 102 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 mg/kg mg/kg Anal ND 20.0 1 88.2 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 102 % 61-141 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0500 1 05/23/25 ND 0.0250 1 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 ND 25.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0500 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 25.0 1 05/23/25 05/28/25 ND 25.0 1 05/27/25 05/27/25 ND 50.0 1 05/27/25 05/27/25 ND 50.0 <



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS29-0.5' E505259-08

Notes Batch: 2521140
Batch: 2521140
Batch: 2521140
Batch: 2522022
Batch: 2522014
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Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS30-0.5' E505259-09

	E303237 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0500	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
	97.7 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
ND	20.0	1	05/23/25	05/28/25	
	89.2 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
ND	25.0	1	05/27/25	05/27/25	
ND	50.0	1	05/27/25	05/27/25	
	101 %	61-141	05/27/25	05/27/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
114	20.0	1	05/27/25	05/27/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MD 20.0 89.2 % mg/kg MD 25.0 ND 50.0 101 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 97.7 % 70-130 mg/kg mg/kg Anal ND 20.0 1 89.2 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 101 % 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0500 1 05/23/25 ND 0.0250 1 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 ND 25.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 mg/kg mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 05/28/25 ND 0.0500 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 MD 0.0250 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 05/27/25 ND 50.0 1 05/27/25 05/27/25 ND 50.0



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS31-0.5' E505259-10

		E303239-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
That ye	Ttoball			1	111111/200	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.9 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/27/25	
Surrogate: n-Nonane		99.2 %	61-141	05/27/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2522014
Chloride	379	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS32-0.5' E505259-11

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	32.5	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		99.9 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2522014
Chloride	361	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS33-0.5' E505259-12

	1303237 12				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2521140
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0500	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
	97.2 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Analyst: BA			Batch: 2521140
ND	20.0	1	05/23/25	05/28/25	
	90.7 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
ND	25.0	1	05/27/25	05/28/25	
ND	50.0	1	05/27/25	05/28/25	
	101 %	61-141	05/27/25	05/28/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
116	20.0	1	05/27/25	05/27/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 97.2 % mg/kg MD 20.0 90.7 % mg/kg ND 25.0 ND 50.0 101 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 97.2 % 70-130 mg/kg mg/kg Anal ND 20.0 1 90.7 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 101 % 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0500 1 05/23/25 ND 0.0250 1 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0500 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 mg/kg 70-130 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg Mg/kg Analyst: NV ND 25.0 1 05/27/25 05/28/25 ND 50.0 1 05/27/25 05/28/25 ND 50.0 1



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS34-0.5' E505259-13

		E303237-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
o,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		102 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2522014
Chloride	ND	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS35-0.5' E505259-14

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2521140
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
ND	0.0500	1	05/23/25	05/28/25	
ND	0.0250	1	05/23/25	05/28/25	
	98.8 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Analyst: BA			Batch: 2521140
ND	20.0	1	05/23/25	05/28/25	
	89.8 %	70-130	05/23/25	05/28/25	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
ND	25.0	1	05/27/25	05/28/25	
ND	50.0	1	05/27/25	05/28/25	
	101 %	61-141	05/27/25	05/28/25	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
63.2	20.0	1	05/27/25	05/27/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 98.8 % mg/kg ND 20.0 89.8 % mg/kg ND 25.0 ND 50.0 101 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 98.8% 70-130 mg/kg mg/kg Anal ND 20.0 1 89.8% 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 101% 61-141 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0500 1 05/23/25 ND 0.0250 1 05/23/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 ND 50.0 1 05/27/25 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0500 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 ND 0.0250 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: BA ND 20.0 1 05/23/25 05/28/25 mg/kg mg/kg Analyst: NV ND 25.0 1 05/27/25 05/28/25 ND 25.0 1 05/27/25 05/28/25 ND 50.0 1 05/27/25 05/28/25 ND 50.0 <



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS36-4' E505259-15

		E303239-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg Analyst: BA		Batch: 2521140			
Benzene	ND	0.0250	1	1 05/23/25		
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		101 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2522014
Chloride	37.4	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS37-4' E505259-16

		E303239-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		104 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
Chloride	41.1	20.0	1	05/27/25	05/27/25	

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS38-4'

		E505259-17				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		102 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2522014
Chloride	148	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS39-4' E505259-18

		E303237-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
oluene	ND	0.0250	1	05/23/25	05/28/25	
-Xylene	ND	0.0250	1	05/23/25	05/28/25	
,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2521140
asoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		103 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2522014
Chloride	3420	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS40-4' E505259-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2521140
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		102 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2522014
Chloride	1360	20.0	1	05/27/25	05/27/25	



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

FS41-4' E505259-20

		E303239-20				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
,				1	,	Batch: 2521140
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: BA		
Benzene	ND	0.0250	1	05/23/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/28/25	
Toluene	ND	0.0250	1	05/23/25	05/28/25	
o-Xylene	ND	0.0250	1	05/23/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/28/25	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2521140
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130	05/23/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2522022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		103 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2522014
Chloride	40.6	20.0	1	05/27/25	05/27/25	



Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

FS42-0.5' E505259-21

		200207 21				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ai	nalyst: SL		Batch: 2521128
Benzene	ND	0.0250	1	05/23/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/23/25	
Toluene	ND	0.0250	1	05/23/25	05/23/25	
o-Xylene	ND	0.0250	1	05/23/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/23/25	
Surrogate: Bromofluorobenzene		99.1 %	70-130	05/23/25	05/23/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/23/25	05/23/25	
Surrogate: Toluene-d8		101 %	70-130	05/23/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2521128
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/23/25	
Surrogate: Bromofluorobenzene		99.1 %	70-130	05/23/25	05/23/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	05/23/25	05/23/25	
Surrogate: Toluene-d8		101 %	70-130	05/23/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: HM		Batch: 2522007
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		112 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ai	nalyst: JM		Batch: 2522013
Chloride	ND	20.0	1	05/27/25	05/27/25	

Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

FS43-0.5' E505259-22

D. I				D 1		N.
Result	Limit	Dilui	tion	Prepared	Analyzed	Notes
mg/kg	mg/kg	1	Analyst: S	SL		Batch: 2521128
ND	0.0250	1		05/23/25	05/23/25	
ND	0.0250	1		05/23/25	05/23/25	
ND	0.0250	1		05/23/25	05/23/25	
ND	0.0250	1		05/23/25	05/23/25	
ND	0.0500	1		05/23/25	05/23/25	
ND	0.0250	1		05/23/25	05/23/25	
	99.7 %	70-130		05/23/25	05/23/25	
	103 %	70-130		05/23/25	05/23/25	
	99.7 %	70-130		05/23/25	05/23/25	
mg/kg	mg/kg	I	Analyst: S	SL		Batch: 2521128
ND	20.0	1		05/23/25	05/23/25	
	99.7 %	70-130		05/23/25	05/23/25	
	103 %	70-130		05/23/25	05/23/25	
	99.7 %	70-130		05/23/25	05/23/25	
mg/kg	mg/kg	1	Analyst: I	НМ		Batch: 2522007
ND	25.0	1		05/27/25	05/27/25	
ND	50.0	1	<u> </u>	05/27/25	05/27/25	
	113 %	61-141		05/27/25	05/27/25	
mg/kg	mg/kg	1	Analyst: J	ſΜ		Batch: 2522013
45.2	20.0	1		05/27/25	05/27/25	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 99.7 % 103 % 99.7 % mg/kg mg/kg ND 20.0 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7 % 103 % 99.7	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 103 % 70-130 103 % 70-130 99.7 % 70-130 mg/kg mg/kg ND 20.0 103 % 70-130 99.7 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 113 % 61-141 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: \$\frac{1}{2}\$ ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 99.7 % 70-130 99.7 % 70-130 mg/kg mg/kg Analyst: \$\frac{1}{2}\$ ND 20.0 1 99.7 % 70-130 1 99.7 % 70-130 1 mg/kg mg/kg Analyst: \$\frac{1}{2}\$ ND 25.0 1 ND 50.0 1 113 % 61-141 mg/kg mg/kg Analyst: \$\frac{1}{2}\$	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0250 1 05/23/25 ND 0.0500 1 05/23/25 ND 0.0250 1 05/23/25 ND 70-130 05/23/25 103 % 70-130 05/23/25 99.7 % 70-130 05/23/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/23/25 103 % 70-130 05/23/25 99.7 % 70-130 05/23/25 99.7 % 70-130 05/23/25 99.7 % 70-130 05/23/25 99.7 % 70-130 05/23/25 99.7 % 70-130 05/23/25 99.7 % 70-130 05/23/25 ND 25.0 <	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 05/23/25 05/23/25 ND 0.0500 1 05/23/25 05/23/25 ND 0.0250 1 05/23/25 05/23/25 ND 0.0250 1 05/23/25 05/23/25 ND 0.0250 1 05/23/25 05/23/25 103 % 70-130 05/23/25 05/23/25 99.7 % 70-130 05/23/25 05/23/25 mg/kg mg/kg Analyst: SL ND 20.0 1 05/23/25 05/23/25 103 % 70-130 05/23/25 05/23/25 99.7 % 70-130 05/23/25 05/23/25 99.7 %



Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

SW01-0-4 E505259-23

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2521128
Benzene	ND	0.0250	1	05/23/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/23/25	
Toluene	ND	0.0250	1	05/23/25	05/23/25	
o-Xylene	ND	0.0250	1	05/23/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/23/25	
Surrogate: Bromofluorobenzene		98.8 %	70-130	05/23/25	05/23/25	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	05/23/25	05/23/25	
Surrogate: Toluene-d8		100 %	70-130	05/23/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	P	Analyst: SL	Batch: 2521128	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/23/25	
Surrogate: Bromofluorobenzene		98.8 %	70-130	05/23/25	05/23/25	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	05/23/25	05/23/25	
Surrogate: Toluene-d8		100 %	70-130	05/23/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: HM		Batch: 2522007
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		112 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM		Batch: 2522013
Chloride	88.9	20.0	1	05/27/25	05/27/25	



Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

SW02-0-4' E505259-24

	_	Reporting	_			
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: SL		Batch: 2521128
Benzene	ND	0.0250	1	05/23/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/23/25	
Toluene	ND	0.0250	1	05/23/25	05/23/25	
o-Xylene	ND	0.0250	1	05/23/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/23/25	
Surrogate: Bromofluorobenzene		99.2 %	70-130	05/23/25	05/23/25	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	05/23/25	05/23/25	
Surrogate: Toluene-d8		103 %	70-130	05/23/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: SL	Batch: 2521128	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/23/25	
Surrogate: Bromofluorobenzene		99.2 %	70-130	05/23/25	05/23/25	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	05/23/25	05/23/25	
Surrogate: Toluene-d8		103 %	70-130	05/23/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: HM		Batch: 2522007
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/28/25	
Surrogate: n-Nonane		112 %	61-141	05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2522013
Chloride	266	20.0	1	05/27/25	05/27/25	

Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

SW03-0-4' E505259-25

		E303237-23					
Austra	Dl4	Reporting		41	D	A a h	Nister
Analyte	Result	Limit	Dilu	uon	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2521128
Benzene	ND	0.0250	1		05/23/25	05/29/25	
Ethylbenzene	ND	0.0250	1		05/23/25	05/29/25	
Toluene	ND	0.0250	1		05/23/25	05/29/25	
o-Xylene	ND	0.0250	1		05/23/25	05/29/25	
p,m-Xylene	ND	0.0500	1		05/23/25	05/29/25	
Total Xylenes	ND	0.0250	1	l	05/23/25	05/29/25	
Surrogate: Bromofluorobenzene		101 %	70-130		05/23/25	05/29/25	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		05/23/25	05/29/25	
Surrogate: Toluene-d8		96.3 %	70-130		05/23/25	05/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2521128
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/23/25	05/29/25	
Surrogate: Bromofluorobenzene		101 %	70-130		05/23/25	05/29/25	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		05/23/25	05/29/25	
Surrogate: Toluene-d8		96.3 %	70-130		05/23/25	05/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	НМ		Batch: 2522007
Diesel Range Organics (C10-C28)	ND	25.0	1		05/27/25	05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	05/27/25	05/28/25	
Surrogate: n-Nonane		111 %	61-141		05/27/25	05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2522013
Chloride	56.0	20.0	1		05/27/25	05/27/25	



Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

SW04-0-4' E505259-26

es 2521128
2521128
2521128
2522007
2522013
1



Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

SW05-0-4' E505259-27

		E303237-21				
Analyte	Result	Reporting Limit	Dilut	tion Prepare	d Analyzed	Notes
Analyte	Resuit	Limit	ווענ	non Prepare	u Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2521128
Benzene	ND	0.0250	1	05/23/2	5 05/23/25	
Ethylbenzene	ND	0.0250	1	05/23/2	5 05/23/25	
Toluene	ND	0.0250	1	05/23/2	5 05/23/25	
o-Xylene	ND	0.0250	1	05/23/2	5 05/23/25	
p,m-Xylene	ND	0.0500	1	05/23/2	5 05/23/25	
Total Xylenes	ND	0.0250	1	05/23/2	5 05/23/25	
Surrogate: Bromofluorobenzene		98.3 %	70-130	05/23/2	5 05/23/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/23/2	5 05/23/25	
Surrogate: Toluene-d8		99.1 %	70-130	05/23/2	5 05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: SL		Batch: 2521128
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/2	5 05/23/25	
Surrogate: Bromofluorobenzene		98.3 %	70-130	05/23/2	5 05/23/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/23/2	5 05/23/25	
Surrogate: Toluene-d8		99.1 %	70-130	05/23/2	5 05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: HM		Batch: 2522007
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/2	5 05/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/2	5 05/28/25	
Surrogate: n-Nonane		113 %	61-141	05/27/2	5 05/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM		Batch: 2522013
Chloride	30.7	20.0	1	05/27/2	5 05/27/25	



Arcturus 18 Federal #006H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 5/30/2025 11:17:02AM Volatile Organic Compounds by EPA 8260B Analyst: SL Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521128-BLK1) Prepared: 05/23/25 Analyzed: 05/29/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.493 0.500 98.5 70-130 Surrogate: 1,2-Dichloroethane-d4 0.502 0.500 100 70-130 0.494 0.500 98.8 70-130 Surrogate: Toluene-d8 LCS (2521128-BS1) Prepared: 05/23/25 Analyzed: 05/29/25 Benzene 2.52 0.0250 2.50 101 70-130 99.1 70-130 2.48 2.50 Ethylbenzene 0.0250

Benzene	2.49	0.0250	2.50	ND	99.7	48-131	
Matrix Spike (2521128-MS1)				Source:	E505259-2	25	Prepared: 05/23/25 Analyzed: 05/29/25
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130	
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130	
Total Xylenes	6.81	0.0250	7.50		90.7	70-130	
p,m-Xylene	4.56	0.0500	5.00		91.1	70-130	
o-Xylene	2.25	0.0250	2.50		89.9	70-130	
Toluene	2.38	0.0250	2.50		95.3	/0-130	

Benzene	2.49	0.0250	2.50	ND	99.7	48-131	
Ethylbenzene	2.54	0.0250	2.50	ND	101	45-135	
Toluene	2.43	0.0250	2.50	ND	97.3	48-130	
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135	
p,m-Xylene	4.80	0.0500	5.00	ND	96.0	43-135	
Total Xylenes	7.19	0.0250	7.50	ND	95.8	43-135	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130	
Surrogate: Toluene-d8	0.505		0.500		101	70-130	

atrix Spike Dup (2521128-MSD1)				Source: E505259-25			Prepared: 05/23/25 Analyzed: 05/29/25		
Benzene	2.50	0.0250	2.50	ND	100	48-131	0.440	23	
Ethylbenzene	2.54	0.0250	2.50	ND	101	45-135	0.0197	27	
Toluene	2.45	0.0250	2.50	ND	98.0	48-130	0.696	24	
o-Xylene	2.46	0.0250	2.50	ND	98.3	43-135	2.91	27	
p,m-Xylene	4.95	0.0500	5.00	ND	98.9	43-135	3.00	27	
Total Xylenes	7.40	0.0250	7.50	ND	98.7	43-135	2.97	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

Devon Energy - Carlsbad Arcturus 18 Federal #006H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 5/30/2025 11:17:02AM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2521140-BLK1) Prepared: 05/23/25 Analyzed: 05/27/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.92 8.00 98.9 70-130 LCS (2521140-BS1) Prepared: 05/23/25 Analyzed: 05/27/25 5.01 100 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.05 0.0250 5.00 101 70-130 5.00 0.0250 5.00 100 70-130 Toluene 4.97 99.5 o-Xylene 0.0250 5.00 70-130 9.85 10.0 98.5 70-130 0.0500 p.m-Xvlene 98.8 70-130 14.8 15.0 Total Xylenes 0.0250 8.00 99.9 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.00 Matrix Spike (2521140-MS1) Source: E505259-03 Prepared: 05/23/25 Analyzed: 05/27/25 5.00 0.0250 5.00 ND 70-130 Benzene ND 101 70-130 Ethylbenzene 5.03 0.0250 5.00 Toluene 4.98 0.0250 5.00 ND 99.6 70-130 4.95 ND 99.0 70-130 5.00 0.0250 o-Xylene p,m-Xylene 9.80 0.0500 10.0 ND 98.0 70-130 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.99 8.00 Matrix Spike Dup (2521140-MSD1) Source: E505259-03 Prepared: 05/23/25 Analyzed: 05/27/25 5.23 0.0250 5.00 ND 70-130 4.54 27 5.27 ND 70-130 4.77 0.0250 5.00 105 26 Ethylbenzene Toluene 5 22 0.0250 5.00 ND 104 70-130 4 67 20 5.19 5.00 ND 104 70-130 4.66 25 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

102

103

98.0

70-130

70-130

70-130



23

26

4.52

4.57

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.2

15.4

7.84

QC Summary Data

Arcturus 18 Federal #006H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 5/30/2025 11:17:02AM Artesia NM, 88210 Project Manager: Ashley Giovengo

M. J. J	^ · · · · · · · · · · · · · · · · · · ·	L EDA	0015D	CDO
Nonhalogenated	Organics	DV EPA	80151) -	CTKO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2521128-BLK1)									yzed: 05/29/25
Gasoline Range Organics (C6-C10)	ND	20.0					- repuired: o		,200, 00,23,20
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			
LCS (2521128-BS2)]	Prepared: 0	5/23/25 Analy	yzed: 05/29/25
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.300		102	/0-130			

Matrix Spike (2521128-MS2)				Source:	E505259-2	25	Prepared: 05/23/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130	
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130	
Surrogate: Toluene-d8	0.516		0.500		103	70-130	

Matrix Spike Dup (2521128-MSD2)				Source:	E505259-2	25	Prepared: 05/23/25 Analyzed: 05/29/2		
Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	7.80	20	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			5/30	0/2025 11:17:02AM	
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO		Analyst: BA		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes	
Blank (2521140-BLK1)							Prepared: 0	5/23/25 Analy	yzed: 05/27/25	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.4	70-130				
LCS (2521140-BS2)							Prepared: 0	5/23/25 Analy	yzed: 05/27/25	
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130				
Matrix Spike (2521140-MS2)				Source:	E505259-	03	Prepared: 0	Prepared: 05/23/25 Analyzed: 05/27/2		
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130				
Matrix Spike Dup (2521140-MSD2)				Source:	E505259-	03	Prepared: 0	5/23/25 Analy	yzed: 05/27/25	
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130	4.18	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130				

Devon Energy - CarlsbadProject Name:Arcturus 18 Federal #006HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo5/30/2025 11:17:02AM

Artesia NM, 88210		Project Manage	r: As	niey Gioveng	go			3/3	0/2023 11:17:02A
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: HM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2522007-BLK1)							Prepared: 0	5/27/25 Ana	yzed: 05/27/25
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.5		50.0		113	61-141			
LCS (2522007-BS1)							Prepared: 0	5/27/25 Ana	lyzed: 05/27/25
Diesel Range Organics (C10-C28)	286	25.0	250		114	66-144			
Surrogate: n-Nonane	55.2		50.0		110	61-141			
Matrix Spike (2522007-MS1)				Source:	E505259-2	22	Prepared: 0	5/27/25 Ana	lyzed: 05/27/25
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	56-156			
Surrogate: n-Nonane	55.6		50.0		111	61-141			
Matrix Spike Dup (2522007-MSD1)				Source:	E505259-2	22	Prepared: 0	5/27/25 Ana	lyzed: 05/27/25
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	56-156	2.11	20	
Surrogate: n-Nonane	55.0		50.0		110	61-141			

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	5/20/2025 11 17 02 11 1
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go				5/30/2025 11:17:02AF
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO	_		Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2522022-BLK1)							Prepared: 0	5/27/25 Ar	nalyzed: 05/27/25
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.9		50.0		99.8	61-141			
LCS (2522022-BS1)							Prepared: 0	5/27/25 Ar	nalyzed: 05/27/25
Diesel Range Organics (C10-C28)	255	25.0	250		102	66-144			
urrogate: n-Nonane	50.3		50.0		101	61-141			
Matrix Spike (2522022-MS1)				Source:	E505259-	12	Prepared: 0	5/27/25 Ar	nalyzed: 05/27/25
Diesel Range Organics (C10-C28)	256	25.0	250	ND	103	56-156			
urrogate: n-Nonane	51.6		50.0		103	61-141			
Matrix Spike Dup (2522022-MSD1)				Source:	E505259-	12	Prepared: 0	5/27/25 Ar	nalyzed: 05/27/25
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156	0.811	20	
urrogate: n-Nonane	50.5		50.0		101	61-141			

Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Arcturus 18 Federal #006H 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	5/30/2025 11:17:02AM

Artesia NM, 88210		Project Manage	1. As	sniey Gioveng	30			5/50	#2023 11:17:02A
		Anions	by EPA 3	00.0/9056	A				Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2522013-BLK1)							Prepared: 0	5/27/25 Analy	/zed: 05/27/25
Chloride	ND	20.0							
LCS (2522013-BS1)							Prepared: 0	5/27/25 Analy	zed: 05/27/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2522013-MS1)				Source:	E505249-	03	Prepared: 0	5/27/25 Analy	zed: 05/27/25
Chloride	287	20.0	250	31.4	102	80-120			
Matrix Spike Dup (2522013-MSD1)				Source:	E505249-	03	Prepared: 0	5/27/25 Analy	zed: 05/27/25

250

80-120

20.0



Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	Reported: 5/30/2025 11:17:02AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	
	Anions by 1	EPA 300.0/9056A	Analyst: DT

		Anions	by EPA 3	00.0/9056	A				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2522014-BLK1)							Prepared: 0	5/27/25 Aı	nalyzed: 05/27/25
Chloride	ND	20.0							
LCS (2522014-BS1)							Prepared: 0	5/27/25 Aı	nalyzed: 05/27/25
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2522014-MS1)				Source:	E505259-	04	Prepared: 0	5/27/25 Aı	nalyzed: 05/27/25
Chloride	270	20.0	250	ND	108	80-120			
Matrix Spike Dup (2522014-MSD1)				Source:	E505259-	04	Prepared: 0	5/27/25 Aı	nalyzed: 05/27/25
Chloride	270	20.0	250	ND	108	80-120	0.134	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

Devon Energy - Carlsbad	Project Name:	Arcturus 18 Federal #006H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	05/30/25 11:17

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

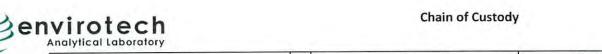
DNI Did Not Ignite

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.





Page	of ~

	Clie	nt Inform	nation		Inv	oice Information				Lab	Use	Only				TAT Stat			9		
Client: [Devon				Company: De	von Energy	La	b W	WO#			lob Nu			_ 10	20	30	Std	NM	CO UT	TX
	Arcturus 18	Federal C	006H		Address: 5315	Buena Vista Dr	F	5	55	75	9	205	RIF	m	7			х	x		
	Manager: Asl				City, State, Zip	: Carlsbad NM, 88220						-102				7					
	3122 Nation				Phone: (575)68	89-7597						Analy	sis a	nd N	etho	1			EP	A Progra	m
	te, Zip: Carls				Email: jim.rale	v@dvn.com				-		7			7	1	1		SDWA	CWA	RCRA
	575-988-005				Miscellaneous:											1					
	giovengo@e		om			,			ru.	ru.						1			Complianc	e Y	or N
									8015	8015	_	G 10	9		25				PWSID#		
				Sample Infor	mation				(Q D)	(0 b)	802	8260	200	1-50	Net	ž.	×		9 0		
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Field	Lab Numbe	er	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chioride 300.0	TCEQ 1005 - TX	RCKA 8 Metals	BGDOC - NM	BGDOC-		Samle Temp	Ren	arks
9:29	5/21/2025	S	1		FS22 - 0.5'		1									x			2.8		
9:30	5/21/2025	S	1		FS23 - 0.5'		2									х			2.9		
9:32	5/21/2025	S	1		FS24 - 0.5'		3									х			2.6		
9:34	5/21/2025	S	1		FS25 - 0.5 '		4									x			2.8		
9:25	5/21/2025	S	1		FS26 - 0.5'		5									x			3.6		
9:27	5/21/2025	S	1		FS27 - 0.5'		6									x			2.6		
9:21	5/21/2025	S	1		FS28 - 0.5'		7									х			2,4		
9:23	5/21/2025	S	1		FS29 - 0.5'		8									x			3.0		
14:17	5/21/2025	5	1		FS30 - 0.5'		9									x			3.4		
14:18	5/21/2025	S	1		FS31 - 0.5'		10									х			4.4		
					.com, agiovengo	@ensolum.com, jim.rale	y@dvn	.coi	m, ie	estrel	la@	ensol	ım.c	om,	hami	lton(ens	olum	.com,		
I, (field san		e validity an	noir@ens	olum.com y of this sample. I am aw	are that tampering with	or intentionally mislabeling the sa	mple locat	tion,	date o	or time	of col	ection is	cons	idered	raud an	d may l	be gro	unds for	legal action.		
Pro- Maria Chin	y:Oluwale Ad			In .	I+to>	Described her follows		-	- 1	Dat-			1+	ime				1			LOCAL CONTRACT
Olu	10000	Ades	into	5/22/25	08:15	Received by: (Signature)	ongn	de	8	5 %	12.	25	,	05	315			pre	Samples red servation m	ust be re	ceived on
Relinquist	ned by: (Signatu	Jonz	ales	S-22-25	1530	Received by: (Signature)				Date 5-2	22-	23	-	ime /	30			rec	the day the eived packe	d on ice	at a temp
Relinguis	ned by: (signatu	re)		5-22-25	Z145	deceived by signature)	Car	2	_	5	23	.25	, !	72	00			a	bove 0 but subseq	less than uent day	NO. O. 1274
Relinquis	ned by: (Signatu	re)		Date	Time	Received by: (Signature)				Date			1	ime				1	Lab l	Jse Only	
	U					-1												1	Receiv	ed on ice	2:
Relinquis	hed by: (Signatu	re)		Date	Time	Received by: (Signature)				Date			T	ime					0	ŊΝ	
Sample Ma	atrix: S - Soil, Sd - S	Solid, Sg - Slu	idge, A - Aqu	eous, O - Other			tainer T														
Note: Sar	nples are discar	ded 14 day	s after resul			are made. Hazardous samples								the cli	ent exp	ense.	The re	eport fo	or the analysi	s of the ab	ove

leteased to Imaging: 8/19/2025 7:15:51 AM

	Clie	nt Inform	nation		Invoice Information			Lab Use Only								T	AT	State						
Client: D		r 1 10	20511		Company: De				ab W			0	Job I			7	1D	2D	3D Std	N	1 CO	UT	TX	_
	Arcturus 18				-	5 Buena Vista Dr	20	- 4	E5	5	10	7_	010	28.	w				x	×	1			-
	Manager: Asl					: Carlsbad NM, 882	20		-			_										DE COUR		_
-	3122 Nation				Phone: (575)6				Analy						and	iviet	nod				_	rogra		
	e, Zip: Carls		88220		Email: jim.rale		_	_												SDWA	C	WA	RCRA	_
	575-988-005		Secretary.		Miscellaneous:	Jim Raley					L									0 !:		Lv	1.	-
Email: a	giovengo@e	nsolum.c	om		L					8015	8015	1				s				Complia PWSID	_	Υ	or N	1
				Sample Info	mation					O by	o by	8021	3260	300.0	5-TX	Metal		MM	2					-
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID		Field	Lat Numb	ber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX	Samle Temp		Rem	narks	
14:20	5/21/2025	S	1		FS32 - 0.5'			11		Ĭ								х		3.8				
14:21	5/21/2025	S	1		FS33 - 0.5'			12	?									x		3.4				
14:23	5/21/2025	S	1		FS34 - 0.5'			13	,									х		1.9				
14:48	5/21/2025	S	1		FS35 - 0.5 '			14										x		2.1				
13:28	5/21/2025	S	1		FS36 - 4'			15	5	-1							T	х		2.4				
13:29	5/21/2025	5	1		FS37 - 4'			14	0									х		1.8				
13:30	5/21/2025	S	1		FS38 - 4'			17	'									x		3.6				
13:32	5/21/2025	S	1		FS39 - 4'			18										х		2.9				-
13:34	5/21/2025	S	1		FS40 - 4'			19										x		3.0				-
13:34	5/21/2025	S	1		FS41 - 4'			20					П					х		4.3				-
Addition	l al Instructio	ns: Ple	ase CC: c	l burton@ensolum	n.com, agiovengo	@ensolum.com, jim	rale	-		n, ie	estre	lla@	ensc	olum	.com	, cha	milt	on@	ensolum					-
	o@ensolum																							_
V-1			dauthenticity	of this sample. I am aw	vare that tampering with	or intentionally mislabeling	the sa	mple loc	ation, c	date o	or time	of co	llection	is cor	sidere	d frau	d and	may b	e grounds for	legal actio	n.			
	:Oluwale Ad			Ta to the same of	T-000	Te contract						_							1 1					_
10	ed by: (Signatur	The same of the sa	nto	5/22/25	08:15	Received by: (Signatu	G	ons	ale	0	S	2	7-2	5	(80	5			Samples			ermal ceived o	ır
				Date	Time	Received by: (Signatu	- 6	-0	-	-	Date	00	-	_	Time	_							mpled or	
VV	ed by: (Signatur	Gonz	rles	211.12	1530	1/-/5	1	-				2	2-2	5)	23	0		10000		S		at a tem	
	ed by: (Signar)			Date 5-22-25	Time 2145	Received by: (Signatu	re)	1/2			Date		3.2		Time 7	21				bove 0 b	ut less	than	6°C on	
Relinquish	ed by: (Sugnatur	9		Date	Time	Received by: (Signat	ret o	WA	18		Date		14		Time				-			Only		-
l. amiquisii	an ay. Implication	-1		1000	1	The state of the s	21				D-GWS.				7				/ /		_	on ice		-
Relinquish	ed by: (Signatur	re)		Date	Time	Received by: (Signatu	re)			ΙÝ	Date				Time					Nec	(Y)		-	
Sample Ma	trix: S - Soil, Sd - S	olid, S g - Slu	dge, A - Aque	ous, 0 - Other		AL.	Con	tainer '	Type:	g - (glass,	p - p	ooly/p	lastic	, ag	amb	er gla	ass, v	- VOA					

Imaging: 8/19/2025 7:15:51 AM

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, chamilton@ensolum.com,

Relinquished by: (Signature) 0815 08:15 5-22-25 Michelle Gonzales 2145 Relinquished by (Signature) Relinquished by: (Signature) Date Time Received by: (Signature) Date Time

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only Received on ice: (V/N

Printed: 5/23/2025 8:36:39AM

Envirotech Analytical Laboratory

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:	Devon Energy - Carlsbad	Date Received:	05/23/25	07:30		Work Order ID:	E505259
Phone:	(505) 382-1211	Date Logged In:	05/22/25	15:16		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:		17:00 (4 day TAT)		<i>55</i>	
Chain of C	Custody (COC)						
1. Does the	e sample ID match the COC?		Yes				
2. Does the	e number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	mples dropped off by client or carrier?		Yes	Carrier: 0	<u>Courier</u>		
4. Was the	COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e. 15 minute hold time, are not included in this disucssi		Yes			Comment	s/Resolution
Sample Ti	urn Around Time (TAT)	on.					
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	ample cooler received?		Yes				
	vas cooler received in good condition?		Yes				
9. Was the	sample(s) received intact, i.e., not broken?		Yes				
	sustody/security seals present?		No				
	were custody/security seals intact?		NA				
•	sample received on ice?		Yes				
	Note: Thermal preservation is not required, if samples are 15 minutes of sampling						
	OC for individual sample temps. Samples outside o	10°C-6°C will be	recorded	in comments.			
Sample C			3.7				
-	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA NA				
	nead space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?	9	NA				
	n-VOC samples collected in the correct containers		Yes				
	ppropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>er </u>						
	mple ID?	offication.	Yes				
	tte/Time Collected?		Yes				
	ellectors name?		Yes				
Sample P	reservation						
21. Does t	he COC or field labels indicate the samples were p	reserved?	No				
	mple(s) correctly preserved?		NA				
24. Is lab 1	iltration required and/or requested for dissolved m	etals?	No				
Multiphas	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontra	nct Laboratory						
	mples required to get sent to a subcontract laborato	rv ⁹	No				
	subcontract laboratory specified by the client and i	-	NA	Subcontract Lal	b: NA		
Client In							
Chent In	<u>struction</u>						



APPENDIX F

NMOCD Correspondence

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 460069

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460069
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508641982
Incident Name	NAPP2508641982 ARCTURUS 18 FED 6H FLOWLINE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Arcturus 18 FED 6H Flowline
Date Release Discovered	03/27/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,597
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2025
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	Please Contact Oluwale Aderinto 575-617-1363
Please provide any information necessary for navigation to sampling site	32.664030, -103.901092

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 460069

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460069
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Create By	d Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/8/2025

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 460072

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460072
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508641982
Incident Name	NAPP2508641982 ARCTURUS 18 FED 6H FLOWLINE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Arcturus 18 FED 6H Flowline
Date Release Discovered	03/27/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,597
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2025
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	Please Contact Oluwale Aderinto @ 575-617-1363
Please provide any information necessary for navigation to sampling site	32.664030, -103.901092

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 460072

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460072
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Creat By	d Condition	Condition Date
jrale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/8/2025

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 460073

QUESTIONS

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	460073
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508641982
Incident Name	NAPP2508641982 ARCTURUS 18 FED 6H FLOWLINE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

ocation of Release Source	
Site Name	Arcturus 18 FED 6H Flowline
Date Release Discovered	03/27/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,597
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/19/2025
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Oluwale Aderinto @ 575-617-1363
Please provide any information necessary for navigation to sampling site	32.664030, -103.901092

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 460073

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460073
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.		5/8/2025

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 460076

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460076
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508641982
Incident Name	NAPP2508641982 ARCTURUS 18 FED 6H FLOWLINE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Arcturus 18 FED 6H Flowline
Date Release Discovered	03/27/2025
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	8,597	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/20/2025	
Time sampling will commence	09:03 AM	
Please provide any information necessary for observers to contact samplers	Please contact Oluwale Aderinto @ 575-617-1363	
Please provide any information necessary for navigation to sampling site	32.664030, -103.901092	

General Information Phone: (505) 629-6116

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

CONDITIONS

Action 460076

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460076
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.		5/8/2025

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

Phone: (505) 629-6116
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https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 460078

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460078
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508641982
Incident Name	NAPP2508641982 ARCTURUS 18 FED 6H FLOWLINE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Arcturus 18 FED 6H Flowline
Date Release Discovered	03/27/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,597
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/21/2025
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Oluwale Aderinto @ 575-617-1363
Please provide any information necessary for navigation to sampling site	32.664030, -103.901092

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 460078

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	460078
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Create By	d Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/8/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

QUESTIONS

Action 490944

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508641982
Incident Name	NAPP2508641982 ARCTURUS 18 FED 6H FLOWLINE @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ARCTURUS 18 FED 6H FLOWLINE
Date Release Discovered	03/27/2025
Surface Owner	Private

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

lature and Volume of Release	
faterial(s) released, please answer all that apply below. Any calculations or specific justifications f	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 12 BBL Recovered: 0 BBL Lost: 12 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 490944

QUESTIONS	(continued)
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Operation	OGNID.
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave.	6137 Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	afety 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	Title
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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com

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

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 490944

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
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 der	monstrating the lateral and vertical extents of soil contamination a	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained 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 CI B)	16900
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	38240
GRO+DRO	(EPA SW-846 Method 8015M)	27440
BTEX	(EPA SW-846 Method 8021B or 8260B)	123
Benzene	(EPA SW-846 Method 8021B or 8260B)	26
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	Il the remediation commence	05/15/2025
On what date will (or did) th	ne final sampling or liner inspection occur	05/21/2025
On what date will (or was) t	the remediation complete(d)	05/21/2025
What is the estimated surfa	ice area (in square feet) that will be reclaimed	8597
What is the estimated volume (in cubic yards) that will be reclaimed 455		455
What is the estimated surface area (in square feet) that will be remediated 8597		8597
What is the estimated volume (in cubic yards) that will be remediated 455		455
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 490944

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	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.)	Not answered.
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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com
Date: 07/31/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

Action 490944

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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

QUESTIONS, Page 6

Action 490944

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	460078
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/21/2025
What was the (estimated) number of samples that were to be gathered	45
What was the sampling surface area in square feet	8597

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	8597	
What was the total volume (cubic yards) remediated	455	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	8597	
What was the total volume (in cubic yards) reclaimed	455	
Summarize any additional remediation activities not included by answers (above)	Remediation Complete	

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

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

I hereby agree and sign off to the above statement

Name: James Raley
Title: EHS Professional
Email: jim.raley@dvn.com
Date: 07/31/2025

Operator:

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 490944

QUESTIONS (continued)

OGRID:

DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	8597
What was the total volume of replacement material (in cubic yards) for this site	455
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 ver must include a top layer, which is either the background thickness of topsoil or one foot of suitable material
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	09/25/2026
Summarize any additional reclamation activities not included by answers (above)	Reclamation Complete
	eclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13
I harshy cartify that the information given above is true and complete to the heat of my	visculades and understand that nursuant to OCD rules and regulations all engrators are required
to report and/or file certain release notifications and perform corrective actions for releas the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required sees which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface a does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed no notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 07/31/2025

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 8

Action 490944

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

General Information Phone: (505) 629-6116

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

CONDITIONS

Action 490944

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	490944
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Create By	d Condition	Condition Date
nvele	z None	8/19/2025